TRADELINE

DRYWALL SOLUTIONS

DRYWALL MANUAL

METAL | FIXINGS | FINISHINGS | ACCESS PANELS

ENGINEERED FOR A LASTING PROFESSIONAL FINISH

The surface shine of a professional finish may be impressive, but it's what lies behind that determines how easy your system is to install, how trouble-free it will be in use, and how long it will last. With a comprehensive system of supports and fixings in place you can be sure that any project you plan conforms to building regulation and will stand the test of time.

Designed by professionals for professionals

We know that every project you're involved in should be quick and easy to construct, robust in use with a range of systems to enable compliance with building regulations. That's the thinking behind TRADELINE, the drywall system created by drywall professionals. Years of experience tell us that an installation has to work from the point of view of the developer, the specifier, the installer and the people who will live and work in it.

A full drywall system

TRADELINE gives you everything you need for that exquisite, long-lasting and fully compliant finish. From internal wall-partitioning systems, which integrate and extend into ceiling and flooring, to vital fixing and finishing components and accessories, TRADELINE is a complete solution. It's also available nationwide through our stockist, CCF, who will deliver to your yard or site direct from stock.

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INTRODUCTION TO TRADELINE

TRADELINE is a high performance brand of dry lining, ceiling and wall lining systems. **TRADELINE** offers dry lining systems and solutions based on Design for Manufacturing and Assembly (DfMA) principle, thus making it easy to install on-site, and reducing waste and construction time.

TRADELINE dry lining systems and solutions has been successfully specified and been used extensively in different sectors including

- Residential
- Student Accommodation
- Care Homes
- Hotels
- Education
- Healthcare
- Retail
- RMI
- Leisure

TRADELINE is a comprehensive dry lining system and comprises of:

- Non-loadbearing partitioning systems
- Wall lining systems
- Ceiling and flooring systems
- Encasements systems
- Fixing and finishing components

Thus being a one stop provider for all your dry lining project needs. **TRADELINE** products are available nationwide from stockists **CCF & Travis Perkins**, who will deliver to your preferred location from a market leading extensive stock profile.

TRADELINE continuously invests in research, development and testing of dry lining systems that complies with our rigorous test regime to **substantiate the claimed performance with proprietary manufacturer's specific board types.**

Each manufacturer's range of plasterboard types have individual characteristics and their performance cannot be based on EN 520 board type labels, as this just stipulates the characteristics of the boards for each type given within standards.

Our dry lining system is tested and assessed continuously to replicate the change in the regulations and standards requirement with all 3 proprietary UK plasterboard manufacturers at independent UKAS accredited test labs and provides a comprehensive dry lining system for

- Fire
- Acoustics
- Strength and Duty Rating

TRADELINE metal components have attained a "Very Good" rating in BES 6001 Responsible Sourcing certification by independent UKAS accredited body, Building Research Establishment (BRE) and this involves continuously auditing for BES 6001 Responsible Sourcing standard. **This enables the customer to claim additional BREEAM credits for their sustainable building project and shows our commitment to sustainable manufacturing for the construction industry.**

TRADELINE Drywall Manual

The dry lining systems has been demystified and simplified within this **TRADELINE** Drywall Manual.

The **TRADELINE** manual has a user-friendly approach to finding and navigating cost-effective systems and solutions, which meets the required performance for your project.

These dry lining systems and solutions were developed by dry lining experts in conjunction with sub-contractors by focusing on customer requirements, continuous feedback and ease of installation on-site in mind.

BES 6001
Responsible Sourcing

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE DRYWALL MANUAL

What's New?

- New installation checklists to mitigate mistakes on-site during dry lining installation.
- Continuous development to **TRADELINE's** extensive dry lining systems library with new tested solutions with proprietary gypsum boards carried out at UKAS accredited test laboratories.
- New partition systems to fulfil Secured By Design (SBD) wall requirement.
- New value engineered Party Wall solutions to suit your project needs.
- Comprehensive construction details.
- New updated dry lining system references for quick traceability and consistency.
- Easy to use product pages with more technical information.
- New quick reference table page to guide on centres, fixings and heights.
- New Index page and simplified tables that enables you to find solutions quicker and guide you towards an appropriate installation.

Revolutionising Digital Solutions

- New **TRADELINE** **Q**uality **A**ssurance **App** (QA App)
- New BIM object add in tool for Revit that enables effortless design and integration of BIM Level 2 certified dry lining system BIM objects within your BIM projects
- New easy to use **TRADELINE** system selector online tool to ensure you can filter and find the right dry lining solution for your project based on performance requirement
- New **TRADELINE** dry lining estimator tool to help you to estimate dry lining product requirements for your project

Contact our **TRADELINE** Technical support team at
technicalteam@ccfltd.co.uk
www.ccfltd.co.uk/content/tradeline

TRADELINE DRYWALL MANUAL

WHY CHOOSE TRADELINE

TECHNICAL SUPPORT

The Building Regulations are evolving and becoming more stringent to support improved built environment, sustainable construction and, most significantly to enhance occupants' health and safety.

It is vital for specifiers, designers and installers to be familiar on the changes that are introduced. **TRADELINE** offers up-to-date, expert, technical support to architects, specifiers, main contractors and sub-contractors helping to proactively specify dry lining systems for Design & Build or Traditional Build projects. **TRADELINE** technical service extends its support from building project inception to assist on design, specification, procurement and on-site project support.

TRADELINE Technical Team provides support with preliminary specification design review for dry linings, partitions and ceiling systems, which will include **TRADELINE** systems and solutions substantiated by tests and assessments by an independent UKAS accredited test lab and comprehensive typical details for dry lining, partition and suspended ceiling systems. We continue our technical support throughout the project at pre-agreed levels during the construction phase, to assist with improving on-site efficiency, maximising value for money, benefiting our customers and minimising wastage. Early engagement and collaboration with **TRADELINE** Technical Team would enable us to create a unique project specification document with your preferred manufacturer's plasterboard as well as help to identify and resolve technical issues proactively.

Contact our **TRADELINE** Technical support team at
technicalteam@ccfltd.co.uk
www.ccfltd.co.uk/tradeline

Value Engineered Systems

TRADELINE dry lining systems within the manual are simplified, value engineered and proven by UKAS tests and assessments to perform. This enables **TRADELINE** to offer a tested configuration to satisfy your regulatory requirements helping to mitigate mistakes on-site by avoiding storage of different expensive plasterboards and picking wrong boards during installation, leading to quick installation thus saving time and cost.

TRADELINE Technical Team can review the dry lining project specification and performance requirement for your project and could meticulously value engineer dry lining systems without compromising the required performance on request.

TRADELINE Key Benefits

Testing

TRADELINE Dry Lining Systems are tested at independent UKAS accredited test bodies to ensure that we can substantiate the claimed system performances, all tested systems within this manual have been ratified by a UKAS accredited test body.

- Tested for fire resistance, acoustic insulation and duty rating to relevant British & European standards.
- Tested as system with all 3 UK plasterboard manufacturer's boards, giving you greater choice to choose your preferred plasterboard manufacturer (details of testing from page 25.)
- Holistic system approach to testing different system including fixings, finishing and accessories.

Fire Test & Validity

The relevance of dry lining systems tested for fire resistance over 5 years old has to be reconsidered due to potential changes and development in legislation. At **TRADELINE**, we ensure all our fire tests are reassessed/ endorsed appropriately by a relevant UKAS accredited test body before the end of 5 year period providing assurance on fire resistance performance for dry lining systems.

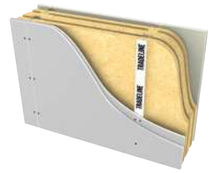
Deflection Head

Deflection Heads within partition system are one of the important construction details which can adversely affect the fire performance of partitions. **TRADELINE** have tested a range of deflection head with various head packer fillets within UKAS accredited test laboratories achieving 30, 60, 90 & 120mins fire resistance to provide cost effective solutions.

Acoustic Insulation for Party Walls

TRADELINE have over 50 variations of Party wall combinations, giving us a market leading stance in providing flexibility.
Benefits include:

- Walls width range from 200mm to over 400mm wide
- Party walls to achieve the required on-site DnT,w + Ctr acoustic test requirements
- For refurb, student accommodation, hotels our Party wall system can achieve 43 DnT,w + Ctr
- For new build to achieve 45 DnT,w + Ctr
- 50 or 53 DnT,w + Ctr for improved accreditation can ALL be provided for with different build configurations



In some cases, value engineered using more cost-effective boards 2 x 12.5mm Gypoc SoundBloc or even 15mm Knauf Fire Panel.

Duty Rating

TRADELINE partition systems have been tested for duty rating to BS 5234: 1992 Part 1 and 2 (Annexes A-F) at independent UKAS accredited test body that ensures that the partition system's robust performance are substantiated.

Secured By Design

TRADELINE has developed a cost effective secure drywall partition without compromising the overall wall performance for fire, acoustics and duty rating to meet the requirements of LPS1175 SR1 security ratings. This solution has been tested by BRE to achieve a rating of SR1, which is required by Secured by Design guide for Homes 2019 v2.

Details on **TRADELINE** SECURE PARTITION can be found on page 9.

Quality Assured

TRADELINE metal systems conform to all relevant British and European standards and are certified and audited for ISO 9001 Quality Management System that ensures consistent high quality products and for ISO 14001 Environmental Management System & BES 6001 Responsible Sourcing of Construction Products to continually reduce the environmental impacts during procurement, manufacturing and supply. Thus, enables designers to claim BREEAM credits for sustainable build projects.

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Digital Construction Tools

BIM & Revit Add-in

TRADELINE dry lining systems were the first in the dry lining industry to have its BIM objects certified to BIM Level 2 by the BSI and have developed industry revolutionising state-of-the-art BIM Object add-in for Autodesk® Revit® that empowers architects and designers to effortlessly find, filter, specify, design and integrate from **TRADELINE** dry lining systems within your BIM (Building Information Modelling) project, thus enables to pre-plan openings, different interferences and clash detection. See page 10 for more details.

Quality Assurance App

TRADELINE has developed a cutting-edge QA App that assists to ensure high-quality installation through project specification and construction detail traceability, verification of compatible products as per specification, proactively identifying and avoiding mistakes on-site and finally provides evidence of compliance before handover. This digital tool has been developed to help progression towards FIS Quality Framework: Product Process People (PPP) and to avoid potential conflicts between different trades.

Now available to download for iOS and Android devices, see page 11 for more details.

System Selector

An easy to use intuitive online dry lining system selector tool has been developed to help you seamlessly find, choose and specify dry lining systems for your projects from vast library of tested/assessed systems with all 3 UK plasterboard manufacturers. By entering your performance requirements the selector rationalises our testing library to only offer solutions that satisfy your requirements.

Online Estimator

We understand that estimation is time consuming and key to construction site efficiency, hence we developed intuitive online estimator tool for dry lining system that would estimate Tradeline materials required for the project.

System Warranty

What is TRADELINE approved warranty?

A comprehensive system warranty that guarantees performance as specified within the specification document. Our system warranty cover all identified and registered projects that are built in accordance with **TRADELINE** specification document and installed in-line with **TRADELINE** approved guidelines and details as specified in the **TRADELINE** Drywall Manual and issued project specific guideline and details. The installation should also comply with Code of practices BS 8212:1995, BS 8000-8:1994, BS 9999:2017 and BS 5385 standards.

Our systems are supported by tests or test based assessments by UKAS accredited laboratories and backed up by warranty makes it ideal for Commercial, Residential, Healthcare and Education projects.

Which products make up the system?

Holistic system products

- **TRADELINE** Metal Framing
- **TRADELINE** Fixings
- **TRADELINE** Acoustic Intumescent Sealants
- **TRADELINE** Joint Compound
- **TRADELINE** Tapes
- **TRADELINE** Access Panels
- **TRADELINE** Plasterboard and insulation as specified

To find out more on how the **TRADELINE** system warranty would add value to your next project, visit **www.ccfltd.co.uk/tradeline**

Download on the App Store

GET IT ON Google Play

TRADELINE SECURE PARTITION

TRADELINE has developed a new cost-effective secure twin wall partition system, which has been tested at an independent UKAS accredited test lab (BRE LPCB) to LPS1175 standard and certified to achieve **SR1 security rating** and is continuously audited by BRE.

TRADELINE secure partition system contributes towards the compliance of Part Q building regulations and also has **Secured by Design (SBD) accreditation**, which is a police security initiative that works to improve the security of buildings and their immediate surroundings.

TRADELINE secure partition wall system is simple, yet economical whilst not compromising the overall wall performance for fire, acoustics, and duty ratings.

Range of system performances to choose from and can achieve up to

- **120mins** fire resistance
- **Rw62dB** sound insulation
- **7.2metres** partition height
- **Severe Duty** rating

This twin frame partition system has achieved LPCB certification after testing carried out at the BRE and is listed in the “LPCB Red Book” publication and can be viewed on **www.redbooklive.com**

Benefits

- Contributes towards Part Q Building Regulation requirements.
- Tested for Fire, Acoustics, Security and Robustness with independent UKAS accredited labs.
- Cost effective in terms of both materials and labour costs, when compared with other Secured by Design products and solutions available.
- Avoids confusion on-site with different board types required to different wall sides and areas and reduces the risk of installation errors on-site.
- Meets fire and acoustic requirements for twin party walls.
- Easy to store and install on-site and no special fixings required.
- Suitable for projects that require secure walls to Security Rating SR1

Multi-Residential & Social Housing

Student Accommodation

Hotels

Contact our **TRADELINE** Technical support team at
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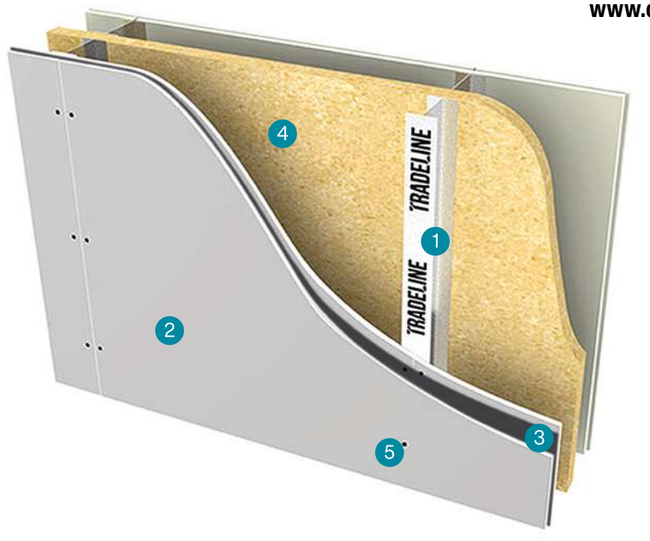
www.ccfltd.co.uk/tradeline



1. **TRADELINE** C/I Stud fixed at max. 600mm ctrs.
2. 2 x layers of Plasterboard as per tested configuration (Refer to project specification)
3. **TRADELINE** Secure Membrane staple fixed at 150mm nominal centres
4. Insulation as specified
5. **TRADELINE** Drywall Screws

LPS 1175: ISSUE 8
CERT NUMBER: 1590b

Secured by Design
Official Police Security Initiative

TRADELINE & BIM

Driven by the UK Government Construction Strategy, the implementation of Building Information Modelling (BIM) has now become fundamental in collaborating project information on the same project.

BIM

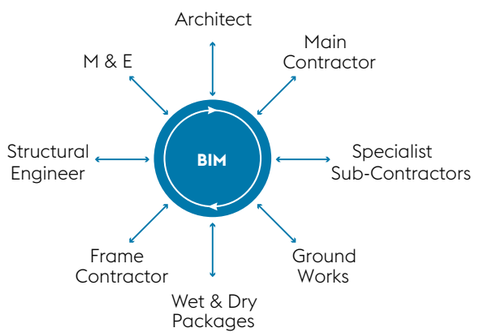
Building Information Modelling (BIM) utilises 3D models with embedded digital information and enables a collaborative process from concept, design, construction and operation of the built asset's life cycle. The model and information held digitally helps to design, plan, build and maintain the built assets through a collaborative approach to coordinate between project contributors and numerous systems thus reducing waste, improve quality and saving cost during maintenance. The idea is that BIM brings together all the digital information about each component within the built asset centrally, which makes the information easy to access for many different purposes, e.g. to integrate different parts of the design. Since the BIM Level 2 mandate for UK Public funded projects, it has been progressively adopted within the industry reaping the benefits that BIM Projects offer.

Benefits include

- Improved collaborative design
- Information for complete Life Cycle Management
- Better build sequencing and workflows
- Reducing mistakes on site
- Reducing design flaws
- Reducing waste
- High quality information on built assets for easy maintenance

BIM Object

BIM isn't just about 3D modelling, but the inclusion of data, which can be used to illustrate the entire building lifecycle, from inception to ongoing maintenance of the building. Each component/system within the digital building environment (BIM Model) is called a BIM object, which has recognisable 3D model and detailed information about the component/system, its geometry and physical characteristics.



BIM Level 2 Accredited

TRADELINE BIM Object Revit Add-in

TRADELINE aim to provide customers with the confidence in our ability to work collaboratively with others in the supply chain. With BIM now the standard for information flow, every member of the project design team can work collaboratively to ensure a smooth and efficient design and build process.

We understand the difficulties that are faced by architects/designers in developing the BIM model and specifying dry lining systems for projects. It is often the case that the designer will have to leave the Revit model to find the system with required performance criteria for the project and then search for the relevant dry lining BIM object from a host website and download the file to import in the Revit Model, which is much more time consuming and generally tedious.

TRADELINE'S industry revolutionising state-of-the-art BIM Object add-in for Autodesk® Revit makes this process simple and easy. **TRADELINE** is first in the industry to build and develop a bespoke Autodesk® Revit Add-in that can be installed within the Revit program, making the specification of dry lining system for BIM project seamlessly easy.

TRADELINE Revit Add-in enables the designer to quickly filter & search from vast dry lining system library based on performance criteria or system reference and download the BIM objects within the Revit program hassle-free. **TRADELINE** dry lining BIM objects can be imported directly into the Revit program to integrate into your existing project or to create new projects swiftly.

BIM Objects are available for:

- Standard Partition Systems
- Twin Frames Partition Systems for Party Walls
- Acoustic Stud Partition Systems
- Resilient Bar Partition Systems
- MF Ceiling Systems
- Shaft Encasement System

TRADELINE Revit Add-in download and a supporting video on how to use are available at **www.ccfltd.co.uk/content/tradeline**

For further information
Contact our **TRADELINE** Technical support team at
technicalteam@ccfltd.co.uk
www.ccfltd.co.uk/content/tradeline

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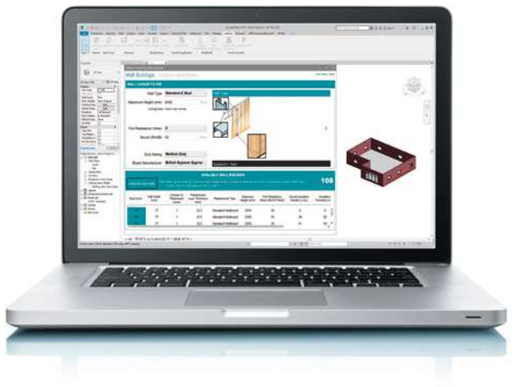


We also support openBIM formats and our **TRADELINE** BIM objects are available in IFC format that contains all the necessary data to assist with the generation of the Construction Operation Building Information Exchange (COBie) file as required by clients' at hand over stage of the project.

Furthermore, because of our collaborative approach with our commercial trading partner Voestalpine Metsec for the supply of **TRADELINE** Metal systems, **TRADELINE'S** BIM offerings via Voestalpine Metsec have been certified to BIM Level 2 by the BSI and the first Tier 2 designer and manufacturer Kite marked to BIM Level 2 for design and construction in the UK. This confirms high quality information delivered in the precise format and data structure for BIM compliant projects.

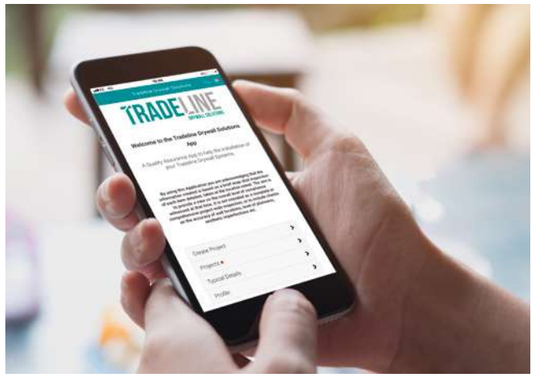
The **TRADELINE** Revit Add-in has huge advantages.

- Speed and ease of use, as no need to leave Revit BIM model.
- Built-in system selector allows to readily filter and select required dry lining systems based on performance or with required dry lining system build-up.
- Typical Construction details for Revit are embedded within model thus enables to tag and refer crucial construction details and issue appropriate drawings from model.
- Open BIM support with IFC file format containing accurate data for COBie data extraction.
- Deflection head details can be built in to model.

BIM objects for **TRADELINE** dry lining products can be downloaded from **www.ccfltd.co.uk/tradeline**

Download on the App Store

GET IT ON Google Play



Digital Best Practice Guide

The importance of good site practice is quintessential for validity of system performance as per UKAS accredited testing, improved quality and to ensure optimised on-site efficiency. To help enable this, **TRADELINE** has designed and developed digital tools to work more efficiently and safely.

Typically different trades are involved in construction, it is therefore vital to produce timely report on progress, quality, traceability and completion with evidence to avoid potential conflicts between different trades. As dry lining professionals and working alongside customers, we understand the problems on site, hence a digital tool has been designed to support and progress towards FIS Quality Framework: Product Process People (PPP).

The **TRADELINE** cutting-edge QA app has been designed and developed to aid with your quality assurance procedures. The app allows you to register progress on site, potentially helping with conflicting trades. Provides a checklist of things to look for to ensure the dry lining system has been installed correctly with photographs and compares with typical details. This tool will enable designers to individually list the walls that have been inspected along with the photographic evidence containing time, date and GPS co-ordinates stamped to prove location and time.
It also incorporates **TRADELINE** materials used to construct the dry lining system and checks

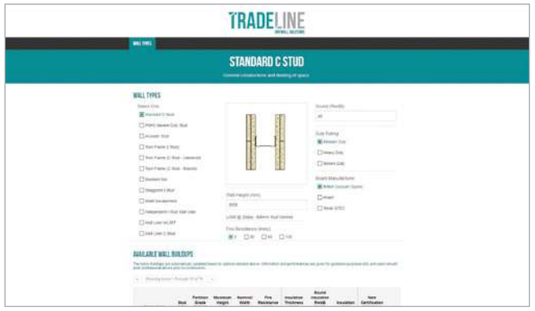
- Fixing of tracks, studs, plasterboard, cavity insulation in single frames with single and double layers
- Twin Frame Partitions
- Resilient Bar Partitions
- Staggered Stud Partitions
- Wall Linings
- Deflection Head details for up to 60mins and up to 120mins fire resistance
- Door frame details for different door weights
- Shaft Encasement System
- Column and Beam Encasements
- MF Ceiling System

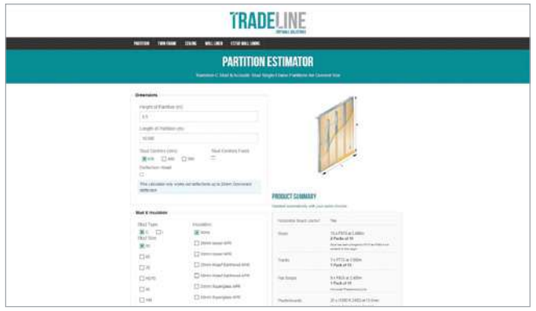
This tool helps to verify the compatible **TRADELINE** products as per specification, pro-actively identifies and avoids mistakes on-site by producing a snagging list for installers to put right and also finally provides the evidence of compliance and completion, QA document before handover.

Now available to download for iOs and Android devices, see page 19 for more details.

WHY CHOOSE TRADELINE

DIGITAL CONSTRUCTION TOOLS





System Selector

Having so many dry lining systems, sometimes it can be challenging to find best suitable system for your project, hence, we have developed an online dry lining System Selector tool that makes your task easier.

You can find **TRADELINE** dry lining systems and solutions that satisfy project specific performance requirements and regulatory requirements with an easy to use dry lining system selector filtering system. If you need further help you can always contact our friendly technical support team for help towards the specification and test data sheets.

TRADELINE dry lining systems are thoroughly tested, details of which can be found on page 22.

To help find the correct dry lining system, please go to the **TRADELINE System Selector tool** at **www.ccfltd.co.uk/content/tradeline**

How to find your best TRADELINE system

Enter the following details:

1. Choose from the list of partition or lining types, as per project requirement.
2. Then add performance criteria:
   - Height of the wall
   - Acoustic Performance required in RwdB or RwdB+Ctr for party walls
   - Fire Resistance
   - Duty Rating
3. Choose the system that best suits your requirements by selecting systems from the filtered results
4. Print Results

Product Estimator

Determine material quantities needed to build your **TRADELINE** system.

To help get a quote from CCF or Travis Perkins branch for your **TRADELINE** system, you can utilise the tool found on the **TRADELINE** website at **www.ccfltd.co.uk/content/tradeline**

This Product Estimator tool with drop down boxes gives you an easy way to establish materials needed and also gives guidance with quantities.

The quantities given make no allowances for wastage.

This information is given for guideline purposes only and it is the responsibility of the user to ensure quantities are correct.

The **TRADELINE** Product Estimator gives advice on quantities needed for **TRADELINE** materials. Including:

- **TRADELINE** Track
- **TRADELINE** Stud
- **TRADELINE** Screws needed for outer and inner layers
- Insulation materials
- Plasterboard
- **TRADELINE** Acoustic Intumescent sealant
- Head packers for deflection head, as required

All guidance notes are not intended to be exhaustive, and you must satisfy yourself of site requirements.
All guidance notes are written for experienced dry lining professionals to assist them in the use of **TRADELINE** materials.

HOW TO FIND YOUR TRADELINE SYSTEM

FIND THE RIGHT TRADELINE SYSTEM FOR YOUR NEXT PROJECT

This TRADELINE Drywall Manual has been designed to make it easy to choose the correct system to satisfy regulatory requirements.

Step 1: Establish your requirements

TRADELINE dry lining systems have been independently tested for Fire, Acoustics and Rigidity (see pages 14 and 15 for definitions) to help satisfy your performance requirements as per the Building Regulations and relevant industry standards for:

- Residential
- Healthcare
- Education
- Commercial

Each **TRADELINE** dry lining system has its unique system reference, based on the build-up.

Always refer to the appropriate current Building Regulations to ensure that the chosen **TRADELINE** dry lining system performance meets or exceeds project requirements. When dealing with flanking transmission, seek help from a qualified acoustician. Professional Indemnity insurance is always vital if seeking advice from a professional consultant.

To ensure that the dry lining system performances are not compromised by other trades, coordinate the project schedule for dry lining and M&E contractor's installation carefully.

Step 2: Choose your System

Within this **TRADELINE** Drywall Manual you will find systems offered by **TRADELINE** for:

- Standard Partitions
- Acoustic Stud Partitions
- Resilient Bar Partitions
- Staggered I studs
- Twin Frame C studs for Party Wall build ups
- Twin Frame I studs for enhanced Party Wall build ups
- Shaft Encasement
- Wall Linings
- Column and Beam Encasement
- MF Ceilings
- Wall Liner Ceilings
- Resilient Bar Ceilings
- Spring Tee Ceilings
- Fire Barriers
- Sealants
- Access Panels

Step 3: Specification Document Request

Contact the Technical Team, where a project specific **TRADELINE** dry lining specification pack can be drafted from information supplied from your original NBS K10 design document and relevant drawings.

This pack includes:

- Project Registration
- **TRADELINE** specifications detailing:
  - Individual system performance
  - Associated **TRADELINE** products required
  - Guidance on how to install
  - Typical Details

Step 4: System Warranty

CCF can offer a full system performance warranty for identified projects that use TRADELINE system specification packs as highlighted in step 3.

Due to the high quality of all TRADELINE components, that have been tried and tested over many years in some of the most impressive buildings in the UK, we can guarantee the fire, acoustic and impact performance levels which are published in this TRADELINE Drywall Manual.

SYSTEM PERFORMANCE DEFINITIONS

To help you understand how well TRADELINE performs and highlight how rigorously we test, here is an explanation of the terms and requirements:

Definitions

TRADELINE Dry lining Systems have been rigorously tested to offer you value-engineered and cost-effective dry lining solutions that satisfy the performance requirements needed for:

- Residential including enhanced Party Wall requirements
- Education
- Healthcare
- Commercial

Strength

TRADELINE Dry Lining Systems have to withstand various dynamic and static loading criteria. To achieve a particular strength grade, the partition system must satisfy six essential performance criteria (Annexes A-F) by testing to BS 5234 – 2:1992. Strength performance must be substantiated based on test reports from United Kingdom Accreditation Service (UKAS) accredited laboratories for testing to BS 5234 – 2:1992.

Based on the partition strength and robustness, BS 5234 – 2:1992 defines four strength or duty grade categories:

- **Light (LD)**: Suitable where possibility of damage is less
- **Medium (MD)**: For use e.g. In general office areas
- **Heavy (HD)**: For use e.g. Public circulation areas
- **Severe (SD)**: For use e.g. Areas prone to rough use

Within the **TRADELINE** Drywall Manual's system performance table you will find the classification of the strength of the partition under the column headed Partition Grade Duty Rating BS 5234 – 2:1992.

Fire

Fire resistance for a dry lining system can be defined as the measurement of time that construction can withstand exposure to a standard temperature/time and pressure.

Fire resistance claims by manufacturers for dry lining systems must be substantiated by test and/or assessment reports by UKAS accredited test laboratories. To maintain the integrity of an installation it must be constructed in strict accordance with the report data for types of materials used, components and assembly details. Unwarranted site modifications can jeopardize performance, in particular, service openings should be well co-ordinated and often involves fire stopping by others.

The results of our fire tests are based on the elapsed time to the lowest of insulation and or integrity failure criteria according to the fire test standards rounded down to the nearest 30 minutes. Depending on your project requirements, fire resistance periods of 30, 60, 90 or 120 minutes are available.

All fire test data in this publication are to BS476 Part 22:1987 if BS EN 1364-1:2015 data is needed then contact the **TRADELINE** Technical team.

All test results stated are based on unique UKAS accredited tests and UKAS accredited scope of testing. Maximum heights are determined based on tests according to BS 5234 – 2:1992 to a maximum limiting deflection of L/240 at 200 Pascal.

Acoustics

Sound insulation performance must be substantiated using test data based on UKAS accredited laboratories test reports. Acoustic tests are rated in accordance with BS EN 717-1.

The quoted figures in this publication are laboratory tested measured as the Weighted Sound Reduction Index (Rw) measured in decibels (dB), hence all values are RwdB figures.

All sound insulation data is based on laboratory evaluation of the building element in isolation and may not represent your installed local conditions.

On-site testing is measured using a different rating. It uses DnT,w Standardised Level Difference. Values on-site are approximately 7 to 8 decibels lower than achieved in the laboratory. The reason for this is down to unknown flanking transmission. Please contact an approved qualified acoustician who may be able to mitigate this issue. Deflection head details if used can also be expected to impact negatively on the decibel rating achieved on site.

All acoustic values published are based on stud centres at 600mm, reducing stud centres could negatively impact performance. Please contact **TRADELINE** technical support team for further information.

Residential requirements for party walls under Part E are measured as DnT,w + Ctr, to give you as a designer more information within this document in appropriate wall build ups to be considered we print the Ctr figures in brackets after the RwdB figures. For example, Twin I Stud wall TWPI50-B-60(50)(200) on page 110 is 67 (-10) = Rw + Ctr 57dB.

The actual tests carried out are used to offer an order of magnitude comparison for the performance of the various systems. Sound insulation on site is a function of the partition chosen and the associated structures in which it is installed. Overall design responsibility for acoustics relies with acoustic consultants' and designers. We would advise that specialist advice is sought at an early stage of design. It is essential that consideration is given to blocking all air paths and flanking sound.

All test data and system specifications are for systems constructed with materials and components as shown. The inclusion of other components without prior approval or constructed on-site contrary to these documents will invalidate test certification and system performance.

Sustainability

As a stockist, CCF are fully committed to protecting the environment and we are continually looking for new ways to improve our environmental performance. We offer a wide range of waste and recycling solutions and our dedicated Waste Management team have the experience to make sure we provide the right solution. These are detailed at www.ccfltd.co.uk.

If you are designing your building to BREEAM the following information should prove useful.

- **TRADELINE** Dry Lining Systems when clad with plasterboard are A rated to BRE Guide 2007
- **TRADELINE** metal systems are manufactured to ISO 14001
- **TRADELINE** metal systems are manufactured to BES 6001- **Very Good**
- **TRADELINE** metal systems are manufactured to ISO 9001
- **TRADELINE** metal systems are manufactured to ISO 45001

UKCA & CE Marking

All relevant profiles conform to BS EN 14195:2005. The products within this range are intended for use as metal framing components within building construction works in conjunction with gypsum plasterboard where the assembly is non-load bearing. The reaction to fire classification for metal components is Euroclass A1, being no contribution to fire (non combustible). Please see product pages and Declaration of Performance (DoP) for more information. All relevant products comply with Construction Product Regulations and are ink marked with the official CE and UKCA logo.

CE UKCA

bsi ISO 9001 Quality Management Systems CERTIFIED
FM 10201

bsi ISO 14001 Environmental Management CERTIFIED
EMS 514493

bsi ISO 45001 Occupational Health and Safety Management CERTIFIED
OHS 587055

bsi BES 6001 Responsible Sourcing of Construction Products CERTIFIED
BES 582737

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

All certificate classifications are correct at time of publication, please contact CCF for validation of current certification.

ACOUSTICS TERMINOLOGY

Any discussion of acoustics and Part E tends to be weighed down with specialist terms and symbols. Here's our guide to a few of the most common terms.

C_{tr}

An adjustment factor applied to sound reduction that takes account of annoying low-frequency traffic noise. Ctr is always negative: it reduces the headline effectiveness of a material or a barrier as measured by its sound-reduction index, Rw, or its level difference, DnT,w.

Decibel (dB)

A measurement of sound intensity. Since the decibel scale is logarithmic, an increment of 10dB indicates sound that's more intense by an order of magnitude. The decibel is a useful measure because an increase or decrease of 1dB is roughly equivalent to what the human ear can detect.

$D_nT_{,w}$

Measures the reduction of airborne sound between two adjacent spaces separated by a wall. DnT,w is a weighted and standardised version of the level difference, D. It's an onsite measure, so it's a real measure of the effectiveness of the installed insulation. The weighting provides a single figure that's easier to use, and the standardisation relates to a standard 0.5 seconds reverberation time.

$D_nT_{,w} + C_{tr}$

An adjusted figure for the sound-level difference (DnT,w) between two spaces. The adjustment (Ctr is always negative) takes account of low-frequency traffic noise.

Flanking Transmission

Sound that passes from one space to another via an indirect path such as the top or bottom of a separating wall.

Frequency

A description of sound based on its pitch – how high or low it sounds. Measured by the number of vibrations or pressure variations a second that cause the sound.

Hertz (Hz)

The unit of frequency of sound expressed in cycles per second.

Impact Sound

Sound made by direct impact on a wall, floor, or other building element. Typical sources of impact sound are footsteps, shutting doors, or dropped objects.

Internal Floor

Any floor within a building that is not a separating floor.

Internal Wall

Any wall within a building that is not a separating wall.

$L_nT_{,w}$

An onsite measure of the ability of a floor to absorb and dampen impact sounds. LnT,w is a weighted and standardised version that provides a single number for easier comparisons.

Noise

Unwanted sound – sounds that building occupants don't want to hear.

Pre-Completion Testing (PCT)

A requirement of the Building Regulations to test the acoustic performance of separating walls and floors in new-build and refurbished properties. Only a percentage of properties in each development need to be tested. Using materials subject to robust details is a way of avoiding pre-completion testing.

Robust Standard Detail (RSD)

Usually known as 'robust details'. A collection of constructions (and their components) for separating walls and floors that have already been tested and approved by Robust Details Ltd. Robust details give builders certainty. When you use materials covered by robust details, you do not have to go through pre-completion testing. However, you must register the project with Robust Detail Limited for approval.

R_w

A weighted version, expressed in decibels, of the sound-reduction index, R. Weighting expresses the index as a single number that makes comparisons easier. Each increase in Rw of 1, roughly relates to a 1dB noise reduction.

Separating Floor

Floor in a residential building that separates dwellings.

Separating Wall

Wall in a residential building that separates adjoining dwellings, houses, flats or rooms.

Sound-Reduction Index (R)

A laboratory-measured rating, expressed in decibels, for the effectiveness of a soundproofing system or material across a range of frequencies. The bigger the number, the better the material is at absorbing sound of a particular frequency. To make comparisons easier, the weighted version Rw of the sound-reduction index is used.

CERTIFICATIONS/ACCREDITATIONS

STANDARDS

Fire

BS 476:1987
Fire tests on building materials and structures.
Part 20 Method for determination of the fire resistance of elements of construction (general principles).
Part 22 Method for determination of the fire resistance of elements of construction (general principles).

BS EN 1364-1:2015
Fire tresistance tests for non-loadbearing elements. Walls.

BS EN 1365-2:2014 Fire resistance tests for load bearing elements.
Part 2 Floors and roofs.

Acoustics

BS EN ISO 10140-2:2010
Acoustics – laboratory measurement of sound insulation of building elements.

BS EN ISO 717-1:2013
Acoustics – rating of sound insulation in buildings and of building elements.
Part 1 Airbourne Sound Insulation.
Part 2 Impact Sound Insulation.

Mechanical

BS 5234 – 2:1992
Partitions (including matching linings). Speceifications for performance requirements for strength and robustness including methods of test.

General

BS EN 14195:2005
Metal framing components for gypsum plasterboard systems – Definitions, requirements and test methods.

BS EN 10143:2006
Specification for continuously hot-dip rolled metal coated steel.

BS EN 10162:2003
Cold rolled steel sections. Technical delivery conditions. Dimensional and cross-sectional tolerances.

BS 8000-8:1994
The code of practise for plasterboard partitions and drylining.

BS 8212:1995
British Standard code of practice for dry lining and partitioning using gypsum plasterboard.

BS 4787-1:1980
Part 1 Internal and external wood door sets, door leaves and frames.

HEALTH AND SAFETY

TRADELINE metal systems are manufactured in accordance with Occupational Health and Safety management system BS ISO 45001:2018.

Products

Cold rolled sections manufactured from pre-galvanised mild steel. Some sections may be manufactured from pre-painted material.

Product use

Always use products for the purpose intended as described in our technical literature. When subjected to elevated temperatures during welding or cutting toxic fumes are produced. Inhalation of these may cause metal fume fever, a short lasting condition with symptoms similar to those of influenza. Therefore adequate ventilation or fume extraction should be provided, and where necessary, protective masks should be worn.

If skin irritation occurs, rinse well with clean cold water, then wash thoroughly. If symptoms persist seek medical advice immediately.

In the event of eye contamination or if any product is swallowed seek medical advice immediately.

Metal products may have sharp corners and edges which can cause lacerations. Always use suitable gloves when handling.

When working overhead or when cutting metal products, the use of protective eye glasses is advisable.

Metal is a good conductor of electricity. Proper precautions should be taken when working near live power lines or electrical equipment.

Metal can become charged. Static electricity may cause sparks when earthed.

Personal hygiene is important, always wash hands well particularly before eating.

Health and Safety relevant references

- No 43 Safety in Mechanical Handling
- No 47 Safety in Stacking Materials
- No EH40 Occupational Exposure Limits

Product Storage

Products should be stored dry and stacked in a safe manner. Never rely on banding for lifting, always use suitable slings.

Product Disposal

Dispose of product in accordance with local authority regulations.

This list is not exhaustive and the Contractor should satisfy themselves with the relevant British standards.

SUSTAINABILITY

TRADELINE is fully committed to protecting the environment and we are continually looking for new ways to improve our environmental performance.

If you are designing your building to BREEAM the following information should prove useful.

- **TRADELINE** Metal Partition Systems when clad with plasterboard are A rated to BRE Guide 2007
- **TRADELINE** Metal systems are manufactured in accordance with Environmental Management system ISO 14001:2015
- **TRADELINE** Metal Systems are manufactured in accordance with Responsible sourcing of construction products BES 6001- **Very Good**
- **TRADELINE** Metal Systems are manufactured to Quality Management system ISO 9001:2015
- **TRADELINE** Metal Systems are manufactured in accordance with Occupational Health and Safety management System BS ISO 45001:2018
- **TRADELINE** Twin frame systems with 2 layers of plasterboard and insulation are A rated to the BRE Green Guide 2007
- Environmental Impact of Steel Production and Processing and recycled contents are available on request
- Cut to length studs service available thus reducing waste
- Plasterboard and preformed deflection heads can be cut to required strip widths on request

TRADELINE SYSTEM WARRANTY

When you choose TRADELINE, you're choosing assured fire, acoustic and duty rating performance levels. We know exactly how our products perform because they have been tested independently in conjunction with boards from leading manufacturers. In fact we're so sure about the performance of the TRADELINE system, we can support your installation with a system warranty.

SYSTEM WARRANTY

What is a TRADELINE approved warranty?

- A full system warranty that guarantees performance to the latest building regulations
- Available on all projects that are built in accordance with bespoke **TRADELINE** Specifications
- Suitable for commercial, residential, healthcare and education sectors.

WHICH PRODUCTS MAKE UP THE SYSTEM

- **TRADELINE** Metal sections

- **TRADELINE** Joint compound

- **TRADELINE** Fixings

- **TRADELINE** Acoustic Intumescent Sealants

- **TRADELINE** Tapes

- **Plasterboard** as specified

- **Insulation** as specified

Our system warranty covers identified and registered projects where the system has been installed in line with issued project-specific guidelines and installation detailed drawings, in accordance with recognised best industry practice.

To find out more on how **TRADELINE** warranty would add value to your next project, **visit www.ccfltd.co.uk/tradeline**

TRADELINE DRYWALL QA APP

The importance of good site practice is essential for validity of UKAS accredited testing and to ensure efficiency on site is optimised. To help enable this, TRADELINE has a number of tools for you to use and work more efficiently and safely.

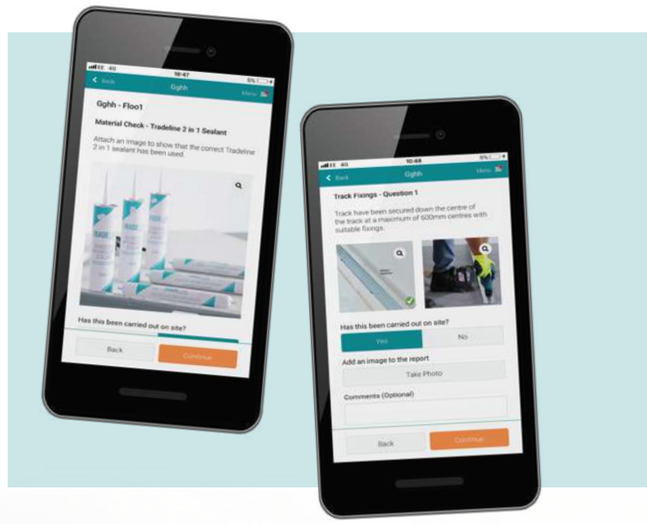
The TRADELINE QA app has been designed to aid with your quality assurance inspections. This mobile app allows you to register and monitor project specific dry lining installation progress on-site and potentially helping with conflicting trades. The intuitive app will guide you through on what to look for with photographs and typical details to check against, that ensures the dry lining system has been installed correctly. It can individually list dry lining systems that have been inspected along with photographic evidence, which captures both date and location coordinates to prove time and location. It also incorporates TRADELINE materials used to construct dry lining system such as tracks, studs, fixings, accessories, tapes and joint compounds along with plasterboard and insulation.

- Single Frame Partitions with single and double layers
- Twin Frame Partitions
- Resilient Bar Partitions
- Staggered Stud Partitions
- Wall Linings
- Deflection head details for one hour and two-hour construction
- Door frame details for various door weights
- Plywood pattressing details
- Shaft Encasement Systems
- Column and Beam Encasements
- MF Ceilings Systems

The end product is to prepare either a snagging list for your operatives to solve and/or a QA document showing 100% completion to hand to your client.

All guidance notes are not intended to be exhaustive, and you must satisfy yourself of site requirements.

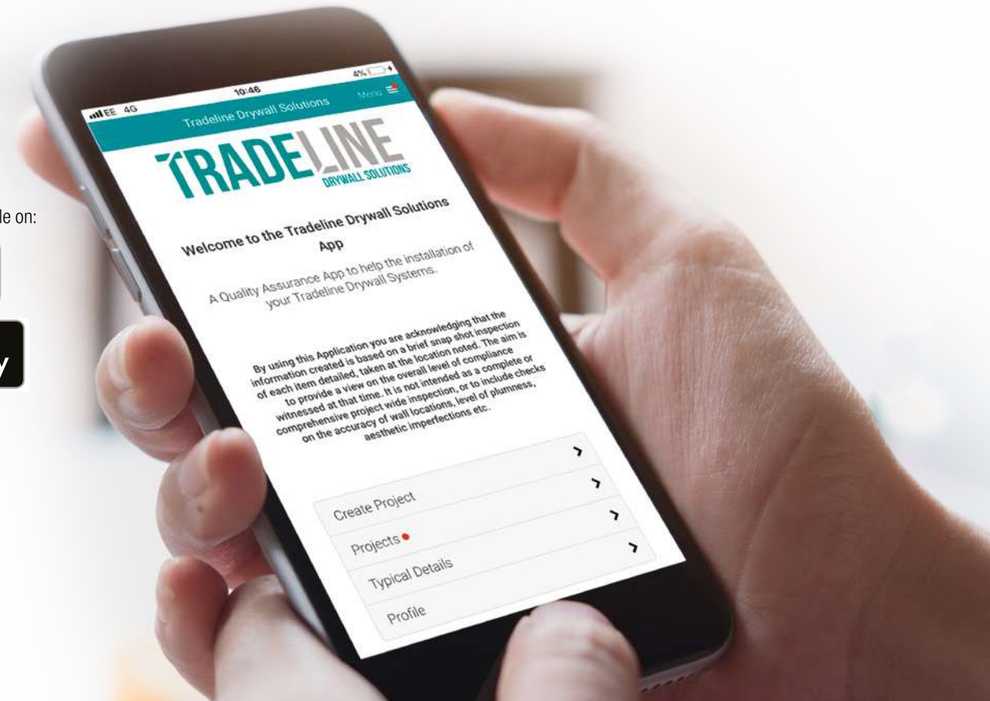
All guidance notes are written for experienced dry lining professionals to assist them in the use of **TRADELINE** systems.



TRADELINE has developed a quality assurance app available on:

Download on the App Store

GET IT ON Google Play



DRYWALL LINING SYSTEMS

SYSTEM PERFORMANCE

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TRADELINE SYSTEM PERFORMANCE TABLE
INTRODUCTION

GUARANTEE
A combination of **TRADELINE** Dry Lining systems detailed in this manual will meet the relevant British Standards for metal stud and track products providing the plasterboard used conforms to BS EN 520:2004+A1:2009 and the system is installed in accordance with all British Standards, industry codes of practice and industry best practice.

The same conditions as above apply to the **TRADELINE** MF Ceiling System.

The relevant British Standards applicable to the **TRADELINE** range of products are highlighted in this manual from page 17.

PLASTERBOARD FIXING CENTRES
For all partitions i.e. C Studs, I Studs, Resilient Bar, Wall Liner, Shaftwall Encasement and Wall Furring the following applies:

Single Layer Installations
Plasterboard must be fixed at 300mm maximum centres to the metal framework with the appropriate length screw ensuring a minimum 10mm penetration into the framework. Plasterboard joints must be staggered from one side of the partition to the other.

Double Layer Installations
Inner layers can be fixed at 600mm centres with outer layers at 300mm centres and must be fixed to the metal framework with the appropriate length screw ensuring a minimum 10mm penetration into the framework. The second layer of plasterboard should be fixed with all joints staggered in relation to the first layer assuming studs fixed at 600mm centres.

Fixing of Floor and Ceiling Tracks
All tracks must be secured to the floor and ceiling in the centre of the profile at 600mm centres with suitable fixings. For 94mm and 148mm tracks we recommend two rows of fixings at 600mm staggered by 300mm.

Horizontal Board Joints
Behind every horizontal board joint in the outer layer of plasterboard a partition brace MUST be installed as it is essential to retain the fire certification rating and maintain a 300mm perimeter fixing of all the plasterboard consistent with relevant British Standards.

TESTING
The **TRADELINE** Dry Lining systems have been tested or assessed by UKAS accredited laboratories utilising British Gypsum, Knauf and Siniat plasterboards. A summary of our testing can be found on the system performance charts starting on page 35.

The **TRADELINE** range is tested for:

Strength
A duty rating is given after testing to BS 5234: 1992 Part 1 and 2 Annexes A-F

Fire
A fire resistance rating is given to the lower of the insulation / integrity figure rounded down to the nearest 30 minutes to BS 476 Part 22: 1987. If EN tests are required please enquire as these may be available.

Acoustics
The figures in this document are laboratory tested figures measured as the Weighted Sound Reduction index (Rw) measured in decibels (dB), hence values are RwdB. These figures are tested to BS EN 717-1.

C and Ctr figures are supplied in brackets for relevant builds. Reminder that these are laboratory tests and will not replicate on-site conditions where there will be a likely reduction of 7 to 8 decibels due to flanking transmission.

This document comprises of a collation of data carried out using a number of different testing facilities.

Facilities used:

- BRE Garston – Fire Acoustic & Mechanical
- BTC East Leake – Fire & Acoustic
- Salford University – Acoustic & Mechanical
- Strathclyde University – Mechanical
- WFRC Warrington – Fire
- Aycliffe Research – Fire
- BM Trada – Fire
- SRL Sudbury – Acoustic

For further information on the individual tests or to see where the test or assessment was carried out please quote the data sheet references.

All sound insulation data is based on laboratory evaluation of the building element in isolation and cannot reproduce your installed local conditions. The actual tests carried out are used to offer an order of magnitude comparison for the performance of the various systems. Sound insulation on site is a function of the partition chosen and the associated structures in which it is installed. We cannot take any responsibility for overall design and we would advise that specialist advice is sought at an early stage of design. All test data and system specifications are for systems constructed with materials and components as shown. The inclusion of other components without prior approval or constructed on site contrary to this document will invalidate test certification, system performance and the system warranty (if applicable).

STANDARD C STUD PARTITIONS
HEIGHT TABLES

Maximum Height - Plasterboard Partitions

C Studs		Maximum Height (metres) Stud Centres		
		600mm	400mm	300mm
Board Thickness (mm)	**No. of Layers**	**50mm C Stud**		
12.5	1	2.5	2.8	2.9
15	1	2.8	3.1	3.2
12.5	2	3.4	4.0	4.1
15	2	3.7	4.3	4.4
		70mm C Stud		
12.5	1	3.6	3.9	4.0
15	1	3.8	4.1	4.2
12.5	2	4.6	5.2	5.4
15	2	4.9	5.5	5.7
		92mm C Stud		
12.5	1	3.9	4.2	4.3
15	1	4.4	4.7	4.8
12.5	2	5.2	5.8	5.9
15	2	5.9	6.5	6.7
		146mm C Stud		
12.5	1	6.2	6.5	6.6
15	1	6.5	6.8	6.9
12.5	2	7.6	8.2	8.4
15	2	7.9	8.5	8.7

Maximum Height - Plasterboard Partitions

I Studs		Maximum Height (metres) Stud Centres		
		600mm	400mm	300mm
Board Thickness (mm)	**No. of Layers**	**50mm I Stud**		
12.5	1	2.8	3.3	3.6
15	1	3.1	3.5	3.8
12.5	2	3.7	4.0	4.3
15	2	3.9	4.3	4.5
		70mm I Stud		
12.5	1	4.4	4.9	5.4
15	1	4.6	5.1	5.5
12.5	2	5.3	5.7	6.0
15	2	5.5	5.9	6.2
		92mm I Stud		
12.5	1	5.4	6.2	6.8
15	1	5.5	6.3	6.9
12.5	2	6.2	7.1	7.6
15	2	6.3	7.2	7.8
		146mm I Stud		
12.5	1	7.9	8.2	8.5
15	1	8.1	8.5	8.8
12.5	2	8.8	9.6	10.0
15	2	9.0	9.8	10.2

Maximum Height - Plasterboard Partitions

Heavy Duty C Studs		Maximum Height (metres) Stud Centres		
		600mm	400mm	300mm
Board Thickness (mm)	**No. of Layers**	**70mm Heavy Duty C Stud**		
12.5	1	4.0	4.4	4.6
15	1	4.2	4.6	4.8
12.5	2	4.8	5.3	5.6
15	2	5.3	5.5	5.9
		146mm Heavy Duty C Stud		
12.5	1	6.6	7.2	7.5
15	1	6.9	7.5	7.8
12.5	2	8.2	8.6	9.0
15	2	8.5	9.0	9.2

Maximum heights are calculated based on a limiting deflection of L/240 at 200 Pascal.

For Non-Fire Rated Partitions or Fire Rated to BS476 Part 22:1987 only.

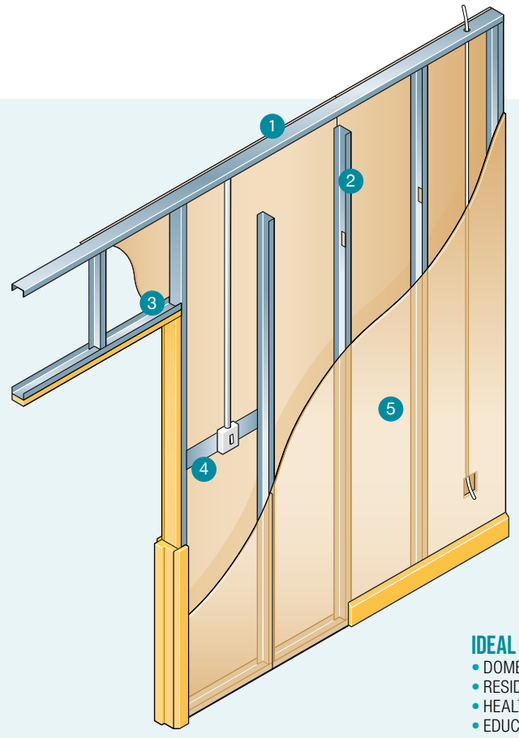
Head and Base Tracks
- Standard tracks have 25mm or 32mm legs and are used for partition heights under 4m.
- Deep tracks have 50mm legs and used for partition heights between 4m and 8m at the head and base. Also used as a head track where a deflection head of up to 30mm is required.
- Extra deep tracks have 70mm legs and used for partition heights between 8m and 10.2m at the head and base. Also used as a head track where a deflection head of up to 45mm is required.

TRADELINE STANDARD C STUD PARTITIONS

TRADELINE C Stud systems are lightweight, non load-bearing, friction fit systems. They can be used within all sectors, from simple sub division of space to providing high levels of acoustic, fire and duty performance whilst achieving heights up to 8.7m (10.2m using I studs)

TRADELINE C Stud Partitioning

1. **TRADELINE** Track suitably fixed at 600mm max. centres
2. **TRADELINE** C Stud
3. **TRADELINE** Track snipped and folded to form head
4. **TRADELINE** Partition Brace
5. Plasterboard as specified



Benefits

- Quick to erect, lightweight and clean
- Metal stud is dimensionally accurate and will not twist or bow
- Range of stud widths – 50mm, 60mm, 70mm, 92mm and 146mm to meet different performance requirements
- Services are easy to install
- Mineral wool can easily be installed to upgrade sound insulation
- Easy to cut to length using tin snips
- Frames easily fit together
- Door frames simply formed
- Sight line in Studs for lining up with plasterboard
- Stud and track formed from pre-galvanised mild steel to BS EN 10346:2015

IDEAL FOR:
- DOMESTIC
- RESIDENTIAL
- HEALTHCARE
- EDUCATION

System performance tables from page 25 onwards highlight **TRADELINE**'s fire, acoustic and duty ratings when used in conjunction with different plasterboards.

METAL

TRADELINE Track page 174

TRADELINE C Stud page 175

METAL ACCESSORIES

TRADELINE Partition Brace page 176

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

TIP

TRADELINE Access Panels Solutions are available to allow for easy access to services on page 188

FINISHINGS

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TRADELINE Drywall Tape page 187

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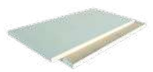


Plasterboard

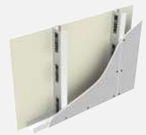
Insulation

SYSTEM PERFORMANCE TABLES

TRADELINE C STUD PARTITIONS

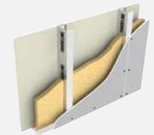
BRITISH GYPSUM GYPROC PLASTERBOARD

Detail A



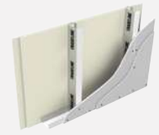
One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B



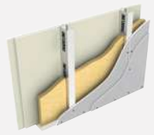
One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

50mm TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

50mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Wallboard	MD	2.5	77	30		39	41	50-B-51	50-B-51(25)	50-B-51(50)
1 x 15mm Wallboard	HD	2.8	82	30		40		50-B-52	50-B-52(25)	
1 x 12.5mm SoundBloc	MD	2.5	77	30		44		50-B-53	50-B-53(25)	
1 x 15mm SoundBloc	HD	2.8	82	30	39	44	45	50-B-54	50-B-54(25)	50-B-54(50)
1 x 15mm SoundBloc F	HD	2.8	82	60	39	44	45	50-B-54F	50-B-54F(25)	50-B-54F(50)
1 x 12.5mm FireLine	MD	2.5	77	30		39	41	50-B-55	50-B-55(25)	50-B-55(50)
1 x 15mm FireLine	HD	2.8	82	60		40		50-B-56	50-B-56(25)	
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Wallboard	SD	3.4	102	60	43	47		50-B-57	50-B-57(25)	
2 x 15mm Wallboard	SD	3.7	112	60	45	47		50-B-58	50-B-58(25)	
2 x 12.5mm SoundBloc	SD	3.4	102	60	48	54		50-B-59	50-B-59(25)	
2 x 15mm SoundBloc*	SD	3.7	112	90	48	54		50-B-60	50-B-60(25)	
2 x 12.5mm FireLine	SD	3.4	102	120	43	47		50-B-61	50-B-61(25)	
2 x 15mm FireLine	SD	3.7	112	120	45	47		50-B-62	50-B-62(25)	

70mm TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

70mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Wallboard	MD	3.6	97	30	37	41		70-B-51	70-B-51(25)	
1 x 15mm Wallboard	HD	3.8	102	30	37	41		70-B-52	70-B-52(25)	
1 x 12.5mm SoundBloc	MD	3.6	97	30	40	46		70-B-53	70-B-53(25)	
1 x 15mm SoundBloc	HD	3.8	102	30	42	46		70-B-54	70-B-54(25)	
1 x 15mm SoundBloc F	HD	3.8	102	60	42	46		70-B-54F	70-B-54F(25)	
1 x 12.5mm FireLine	MD	3.6	97	30	37	41		70-B-55	70-B-55(25)	
1 x 15mm FireLine	HD	3.8	102	60	37	41		70-B-56	70-B-56(25)	
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Wallboard	SD	4.6	122	60	46	50		70-B-57	70-B-57(25)	
2 x 15mm Wallboard	SD	4.9	132	60	46	50		70-B-58	70-B-58(25)	
2 x 12.5mm SoundBloc	SD	4.6	122	60	53	56		70-B-59	70-B-59(25)	
2 x 15mm SoundBloc*	SD	4.9	132	90	53	56		70-B-60	70-B-60(25)	
2 x 12.5mm FireLine	SD	4.6	122	120	47	50		70-B-61	70-B-61(25)	
2 x 15mm FireLine	SD	4.9	132	120	47	50		70-B-62	70-B-62(25)	

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

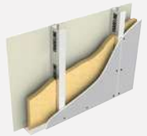
TRADELINE C STUD PARTITIONS

BRITISH GYPSUM GYPROC PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

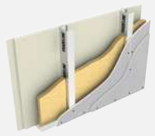


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

92mm TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

92mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Wallboard	MD	3.9	119	30	37	41		92-B-51	92-B-51(25)	
1 x 15mm Wallboard	HD	4.4	124	30	37	41		92-B-52	92-B-52(25)	
1 x 12.5mm SoundBloc	MD	3.9	119	30	40	46		92-B-53	92-B-53(25)	
1 x 15mm SoundBloc	HD	4.4	124	30	42	46		92-B-54	92-B-54(25)	
1 x 15mm SoundBloc F	HD	4.4	124	60	42	46		92-B-54F	92-B-54F(25)	
1 x 12.5mm FireLine	MD	3.9	119	30	37	41		92-B-55	92-B-55(25)	
1 x 15mm FireLine	HD	4.4	124	60	37	41		92-B-56	92-B-56(25)	
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Wallboard	SD	5.2	144	60	46	50		92-B-57	92-B-57(25)	
2 x 15mm Wallboard	SD	5.9	154	60	46	50		92-B-58	92-B-58(25)	
2 x 12.5mm SoundBloc	SD	5.2	144	60	53	56		92-B-59	92-B-59(25)	
2 x 15mm SoundBloc*	SD	5.9	154	90	53	56		92-B-60	92-B-60(25)	
2 x 12.5mm FireLine	SD	5.2	144	120	47	50		92-B-61	92-B-61(25)	
2 x 15mm FireLine	SD	5.9	154	120	47	50		92-B-62	92-B-62(25)	

146mm TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

146mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Wallboard	MD	6.2	173	30	37	41		146-B-51	146-B-51(25)	
1 x 15mm Wallboard	HD	6.5	178	30	37	41		146-B-52	146-B-52(25)	
1 x 12.5mm SoundBloc	MD	6.2	173	30	40	46		146-B-53	146-B-53(25)	
1 x 15mm SoundBloc	HD	6.5	178	30	47	52		146-B-54	146-B-54(25)	
1 x 15mm SoundBloc F	HD	6.5	178	60	47	52		146-B-54F	146-B-54F(25)	
1 x 12.5mm FireLine	MD	6.2	173	30	37	41		146-B-55	146-B-55(25)	
1 x 15mm FireLine	HD	6.5	178	60	37	41		146-B-56	146-B-56(25)	
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Wallboard	SD	7.6	198	60	46	50		146-B-57	146-B-57(25)	
2 x 15mm Wallboard	SD	7.9	208	60	46	50		146-B-58	146-B-58(25)	
2 x 12.5mm SoundBloc	SD	7.6	198	60	53	56		146-B-59	146-B-59(25)	
2 x 15mm SoundBloc*	SD	7.9	208	90	56	59		146-B-60	146-B-60(25)	
2 x 12.5mm FireLine	SD	7.6	198	120	47	50		146-B-61	146-B-61(25)	
2 x 15mm FireLine	SD	7.9	208	120	47	50		146-B-62	146-B-62(25)	

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

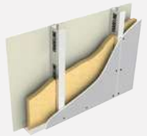
TRADELINE C STUD PARTITIONS

SINIAT PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

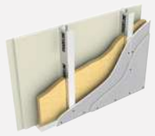


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

50mm TRADELINE C Stud spaced at 600mm centres – Siniat Plasterboard

50mm TRADELINE C Stud Siniat Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Standard Board	MD	2.5	77	0						
1 x 15mm Standard Board	HD	2.8	82	30		40			50-S-52(25)	
1 x 12.5mm dB Board	MD	2.5	77	0		42			50-S-53(25)	
1 x 15mm dB Board	HD	2.8	82	30	38	42		50-S-54	50-S-54(25)	
1 x 12.5mm Fire Board	MD	2.5	77	0						
1 x 15mm Fire Board	HD	2.8	82	60		41			50-S-56(25)	
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Standard Board	SD	3.4	102	60	42	46		50-S-57	50-S-57(25)	
2 x 15mm Standard Board	SD	3.7	112	60	42	46		50-S-58	50-S-58(25)	
2 x 12.5mm dB Board	SD	3.4	102	60	47	50		50-S-59	50-S-59(25)	
2 x 15mm dB Board	SD	3.7	112	90	47	50		50-S-60	50-S-60(25)	
2 x 12.5mm Fire Board	SD	3.4	102	90	42	46		50-S-61	50-S-61(25)	
2 x 15mm Fire Board	SD	3.7	112	120	42	46		50-S-62	50-S-62(25)	

70mm TRADELINE C Stud spaced at 600mm centres – Siniat Plasterboard

70mm TRADELINE C Stud Siniat Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Standard Board	MD	3.6	97	30		40		70-S-51	70-S-51(25)	
1 x 15mm Standard Board	HD	3.8	102	30		40		70-S-52	70-S-52(25)	
1 x 12.5mm dB Board	MD	3.6	97	30	40	45		70-S-53	70-S-53(25)	
1 x 15mm dB Board	HD	3.8	102	30	41	45		70-S-54	70-S-54(25)	
1 x 12.5mm Fire Board	MD	3.6	97	30		40		70-S-55	70-S-55(25)	
1 x 15mm Fire Board	HD	3.8	102	60		42		70-S-56	70-S-56(25)	
1 x 15mm Megadeco	SD	3.8	102	60	40	44	47	70-S-63	70-S-63(25)	70-S-63(50)
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Standard Board	SD	4.6	122	60	45	49		70-S-57	70-S-57(25)	
2 x 15mm Standard Board	SD	4.9	132	60	45	49		70-S-58	70-S-58(25)	
2 x 12.5mm dB Board	SD	4.6	122	60	50	52		70-S-59	70-S-59(25)	
2 x 15mm dB Board	SD	4.9	132	90	50	53		70-S-60	70-S-60(25)	
2 x 12.5mm Fire Board	SD	4.6	122	90	45	49		70-S-61	70-S-61(25)	
2 x 15mm Fire Board	SD	4.9	132	120	50	53		70-S-62	70-S-62(25)	
1 x 12.5mm Standard Board (Inner) 1 x 15mm Megadeco (Outer)	SD	4.6	127	60		52			70-S-65(25)	
1 x 15mm dB Board (Inner) 1 x 15mm Megadeco (Outer)	SD	4.9	132	90		53			70-S-66SR(25)	

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

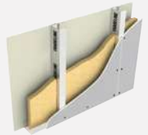
TRADELINE C STUD PARTITIONS

SINIAT PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

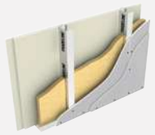


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

92mm TRADELINE C Stud spaced at 600mm centres – Siniat Plasterboard

92mm TRADELINE C Stud Siniat Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Standard Board	MD	3.9	119	30		40		92-S-51	92-S-51(25)	
1 x 15mm Standard Board	HD	4.4	124	30		41		92-S-52	92-S-52(25)	
1 x 12.5mm dB Board	MD	3.9	119	30	40	45		92-S-53	92-S-53(25)	
1 x 15mm dB Board	HD	4.4	124	30	41	45		92-S-54	92-S-54(25)	
1 x 12.5mm Fire Board	MD	3.9	119	30		40		92-S-55	92-S-55(25)	
1 x 15mm Fire Board	HD	4.4	124	60		42		92-S-56	92-S-56(25)	
1 x 15mm Megadeco	SD	4.4	124	60	40	44	47	92-S-63	92-S-63(25)	92-S-63(50)
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Standard Board	SD	5.2	144	60	45	49		92-S-57	92-S-57(25)	
2 x 15mm Standard Board	SD	5.9	154	60	45	49		92-S-58	92-S-58(25)	
2 x 12.5mm dB Board	SD	5.2	144	60	50	52		92-S-59	92-S-59(25)	
2 x 15mm dB Board	SD	5.9	154	90	50	53		92-S-60	92-S-60(25)	
2 x 12.5mm Fire Board	SD	5.2	144	90	45	49		92-S-61	92-S-61(25)	
2 x 15mm Fire Board	SD	5.9	154	120	50	53		92-S-62	92-S-62(25)	
1 x 12.5mm Wallboard (Inner) 1 x 15mm Megadeco (Outer)	SD	5.2	149	60		52			92-S-65(25)	
1 x 15mm dB Board (Inner) 1 x 15mm Megadeco (Outer)	SD	5.9	154	90		53			92-S-66SR(25)	

146mm TRADELINE C Stud spaced at 600mm centres – Siniat Plasterboard

146mm TRADELINE C Stud Siniat Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Standard Board	MD	6.2	173	30		40		146-S-51	146-S-51(25)	
1 x 15mm Standard Board	HD	6.5	178	30		41		146-S-52	146-S-52(25)	
1 x 12.5mm dB Board	MD	6.2	173	30	40	45		146-S-53	146-S-53(25)	
1 x 15mm dB Board	HD	6.5	178	30	41	45		146-S-54	146-S-54(25)	
1 x 12.5mm Fire Board	MD	6.2	173	30		40		146-S-55	146-S-55(25)	
1 x 15mm Fire Board	HD	6.5	178	60	44	48		146-S-56	146-S-56(25)	
1 x 15mm Megadeco	SD	6.5	178	60	40	44	47	146-S-63	146-S-63(25)	146-S-63(50)
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Standard Board	SD	7.6	198	60	45	49		146-S-57	146-S-57(25)	
2 x 15mm Standard Board	SD	7.9	208	60	45	49		146-S-58	146-S-58(25)	
2 x 12.5mm dB Board	SD	7.6	198	60	50	52		146-S-59	146-S-59(25)	
2 x 15mm dB Board	SD	7.9	208	90	50	53		146-S-60	146-S-60(25)	
2 x 12.5mm Fire Board	SD	7.6	198	90	45	49		146-S-61	146-S-61(25)	
2 x 15mm Fire Board	SD	7.9	208	120	54	55		146-S-62	146-S-62(25)	
1 x 12.5mm Standard Board (Inner) 1 x 15mm Megadeco (Outer)	SD	7.6	203	60		52			146-S-65(25)	
1 x 15mm dB Board (Inner) 1 x 15mm Megadeco (Outer)	SD	7.9	208	90		53			146-S-66SR(25)	

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23. An estimated reduction of up to 2dB may occur due to the use of I Stud

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

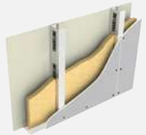
TRADELINE C STUD PARTITIONS

KNAUF PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

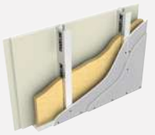


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

50mm TRADELINE C Stud spaced at 600mm centres - Knauf Plasterboard

50mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Wallboard	MD	2.5	77	30		41	42	50-K-51	50-K-51(25)	50-K-51(50)
1 x 15mm Wallboard	HD	2.8	82	30		41		50-K-52	50-K-52(25)	
1 x 12.5mm Soundshield Plus	MD	2.5	77	30		44		50-K-53	50-K-53(25)	
1 x 15mm Soundshield Plus	HD	2.8	82	30	38	42		50-K-54	50-K-54(25)	
1 x 12.5mm Fire Panel	MD	2.5	77	30		41	42	50-K-55	50-K-55(25)	50-K-55(50)
1 x 15mm Fire Panel	HD	2.8	82	60		41		50-K-56	50-K-56(25)	
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Wallboard	SD	3.4	102	60	42	47		50-K-57	50-K-57(25)	
2 x 15mm Wallboard	SD	3.7	112	60	42	47		50-K-58	50-K-58(25)	
2 x 12.5mm Soundshield Plus	SD	3.4	102	60	49	52		50-K-59	50-K-59(25)	
2 x 15mm Soundshield Plus	SD	3.7	112	120	49	52		50-K-60	50-K-60(25)	
2 x 12.5mm Fire Panel	SD	3.4	102	120	42	47		50-K-61	50-K-61(25)	
2 x 15mm Fire Panel	SD	3.7	112	120	42	47		50-K-62	50-K-62(25)	

70mm TRADELINE C Stud spaced at 600mm centres – Knauf Plasterboard

70mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**	**Detail B**				
1 x 12.5mm Wallboard	MD	3.6	97	30		42	43	70-K-51	70-K-51(25)	70-K-51(50)
1 x 15mm Wallboard	HD	3.8	102	30		42		70-K-52	70-K-52(25)	
1 x 12.5mm Soundshield Plus	MD	3.6	97	30	42	47		70-K-53	70-K-53(25)	
1 x 15mm Soundshield Plus	SD	3.8	102	60	42	47		70-K-54	70-K-54(25)	
1 x 12.5mm Fire Panel	MD	3.6	97	30		42		70-K-55	70-K-55(25)	
1 x 15mm Fire Panel	HD	3.8	102	60		43		70-K-56	70-K-56(25)	
Double Layer Configurations					**Detail C**	**Detail D**				
2 x 12.5mm Wallboard	SD	4.6	122	60	46	49		70-K-57	70-K-57(25)	
2 x 15mm Wallboard	SD	4.9	132	60	46	49		70-K-58	70-K-58(25)	
2 x 12.5mm Soundshield Plus	SD	4.6	122	60	53	55		70-K-59	70-K-59(25)	
2 x 15mm Soundshield Plus	SD	4.9	132	120	53	55		70-K-60	70-K-60(25)	
2 x 12.5mm Fire Panel	SD	4.6	122	120	46	49		70-K-61	70-K-61(25)	
2 x 15mm Fire Panel	SD	4.9	132	120	46	49		70-K-62	70-K-62(25)	

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

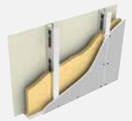
TRADELINE C STUD PARTITIONS

KNAUF PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

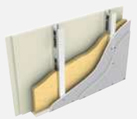


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

92mm TRADELINE C Stud spaced at 600mm centres – Knauf Plasterboard

92mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Wallboard	MD	3.9	119	30		42	43	92-K-51	92-K-51(25)	92-K-51(50)
1 x 15mm Wallboard	HD	4.4	124	30		42	43	92-K-52	92-K-52(25)	92-K-52(50)
1 x 12.5mm Soundshield Plus	MD	3.9	119	30	42	47		92-K-53	92-K-53(25)	
1 x 15mm Soundshield Plus	SD	4.4	124	60	42	47	48*	92-K-54	92-K-54(25)	92-K-54(100)
1 x 12.5mm Fire Panel	MD	3.9	119	30		42		92-K-55	92-K-55(25)	
1 x 15mm Fire Panel	HD	4.4	124	60		43		92-K-56	92-K-56(25)	
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Wallboard	SD	5.2	144	60	46	49		92-K-57	92-K-57(25)	
2 x 15mm Wallboard	SD	5.9	154	60	46	49		92-K-58	92-K-58(25)	
2 x 12.5mm Soundshield Plus	SD	5.2	144	60	53	55		92-K-59	92-K-59(25)	
2 x 15mm Soundshield Plus	SD	5.9	154	120	53	55		92-K-60	92-K-60(25)	
2 x 12.5mm Fire Panel	SD	5.2	144	120	46	49		92-K-61	92-K-61(25)	
2 x 15mm Fire Panel	SD	5.9	154	120	46	49		92-K-62	92-K-62(25)	

*100mm APR utilised in this configuration

146mm TRADELINE C Stud spaced at 600mm centres – Knauf Plasterboard

146mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm Wallboard	MD	6.2	173	30		42	43	146-K-51	146-K-51(25)	146-K-51(50)
1 x 15mm Wallboard	HD	6.5	178	30		42		146-K-52	146-K-52(25)	
1 x 12.5mm Soundshield Plus	MD	6.2	173	30	42	47		146-K-53	146-K-53(25)	
1 x 15mm Soundshield Plus	SD	6.5	178	60	42	47	48*	146-K-54	146-K-54(25)	146-K-54(100)
1 x 12.5mm Fire Panel	MD	6.2	173	30		42		146-K-55	146-K-55(25)	
1 x 15mm Fire Panel	HD	6.5	178	60		43		146-K-56	146-K-56(25)	
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm Wallboard	SD	7.6	198	60	46	49		146-K-57	146-K-57(25)	
2 x 15mm Wallboard	SD	7.9	208	60	46	49		146-K-58	146-K-58(25)	
2 x 12.5mm Soundshield Plus	SD	7.6	198	60	53	55		146-K-59	146-K-59(25)	
2 x 15mm Soundshield Plus	SD	7.9	208	120	53	55		146-K-60	146-K-60(25)	
2 x 12.5mm Fire Panel	SD	7.6	198	120	46	49		146-K-61	146-K-61(25)	
2 x 15mm Fire Panel	SD	7.9	208	120	46	49		146-K-62	146-K-62(25)	

*100mm APR utilised in this configuration

Above details based on C Stud constructions, for allowable heights when using I Stud please see height table on page 23. An estimated reduction of up to 2dB may occur due to the use of I Stud

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE HEAVY DUTY C STUD PARTITIONS

TRADELINE HD SYSTEMS

Often there is a requirement for Severe Duty under BS 5234-2: 1994 Annexes A-F.

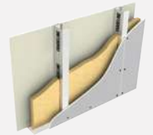
TRADELINE can facilitate this with the use of the **TRADELINE** Heavy Duty Stud often with cost effective single layer solutions. Utilising the correct plasterboard solution with the **TRADELINE** Heavy Duty Stud not only can you satisfy BS 5234 but also achieve excellent fire and acoustic performances also.

Ideal for uses in areas of heavy congestion such as corridors.

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B



One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Heavy Duty 70mm Tradeline C Stud spaced at 600mm centres - British Gypsum Gyproc Plasterboard

PSHD70mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm DuraLine	SD	4.2	102	60	44	47	48	PSHD70-B-63	PSHD70-B-63(25)	PSHD70-B-63(50)

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

HOW TO BUILD
GENERAL INSTALLATION GUIDELINES

GUIDELINES

To help in construction for all individual unique system references as detailed in system performance tables there is a bespoke installation guideline available. Typical details also available on request from your local CCF stockist.

GENERAL NOTES

Handle and store materials in accordance with BS 8212 Section 5:1995. Do not use damaged boards.

Cut boards neatly and accurately without damage to core or tearing of paper facing. Keep cut edges to a minimum and position at internal angles.

Finish neatly giving flush, smooth, flat surfaces free from bowing and abrupt changes of level.

Installation in accordance with BS8212: 1995 British Standard code of practice for dry lining and partitioning using gypsum plasterboard and BS 8000-8: 1994 Workmanship on building sites.

TRADELINE STUD FRAMING
C & I Stud, Partitions & I Stud Wall Lining

- Set out floor/ceiling track and perimeter studs to give framework that is accurately aligned with a true vertical plane. Fix securely at all perimeters at not more than 600mm centres. For 94mm and 148mm tracks we recommend two rows of fixings at 600mm staggered by 300mm.
- Position studs at equal centres to suit specific linings, maintaining sequence across openings. Provide additional studs as necessary to ensure support to all vertical edges of boards.
- Accurately form openings to receive door sets using boxed studs and or timber framing as necessary to achieve the strength grade requirement to BS 5234-2:1992.
- Single layer C Stud partition installations should be constructed from side to side (not built on one side only) to prevent stepping at joints.
- Curved partition with required radius can be built by snipping the track at specified distance, see table below.

Curved Partition Track

Required Radius (m)	Track snipping centres (mm)	Studs centres (mm)
1-3	50	150
3-5	100	300
5+	300	600

Please ensure each segment of track suitably secured to the floor and soffit.

PARTITIONS AND WALL LININGS
Single Layer Installations

- Plasterboard must be fixed at 300mm maximum centres.
- Plasterboard vertical joints must be staggered from one side of the partition to the other.
- Recess heads of screws below surface of plasterboard but do not break paper or gypsum core.

Double Layer Installations

- Plasterboard vertical joints on the inner layer must be staggered from one side of the partition to the other. The outer layer of plasterboard must be fixed with all joints staggered in relation to the inner layer.
- Position screws not less than 10mm from the bound edge of the board and 13mm from the cut edge.
- Recess heads of screws below surface of plasterboard but do not break paper or gypsum core.

Ceramic Tiling & Stone Finishes

- If ceramic tiles are being fixed to the finished wall, to prevent cracking of the tiles, stud centres must be reduced to max. 400mm.
- Tiles should only be fitted to double layer installations or single layers of 15mm plasterboard.
- For stone finishes please contact Stone Federation for additional guidance and recommendations

Mineral Wool Insulation to TRADELINE Stud Partitions and Linings

Closely butt all joints with no gaps. Unless the insulation is a self-supporting slab type fitted between the studs, fix at head of frame using long drywall screws or self-adhesive stickpins.

Partitions - Predicted acoustic performance with reduced stud centres

Partition Insulation Configuration	Stud centres	
	400mm	300mm
No Insulation	-2 RwdB	-3 RwdB
Min. 25mm insulation	-0 RwdB	-2 RwdB

Fire Stopping

Seal any air gaps at junctions of linings and service penetrations using tightly packed rock mineral wool or **TRADELINE** Acoustic Intumescent Sealant to prevent penetration of smoke and flame.

Deflection Heads

Please refer to the table below for maximum deflection allowances for the given **TRADELINE** deep or extra deep tracks.

Top fixings must be made through the plasterboard into either **TRADELINE PB24 Partition Brace** or **FS24 Flat Strap**. Partition Brace or Flat Strap to be positioned no more than 125mm for up to 30mm downward deflection and 180mm for up to 45mm downward deflection from the structural soffit.

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. 5mm with the packer board. This can also be achieved with deflections up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm Tradeline acoustic intumescent sealant to the underside of the soffit.

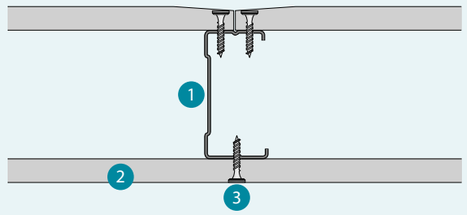
Acoustic Sealant

Seal any air gaps at junctions of linings with walls, floors, ceilings and around openings with a continuous bead of **TRADELINE** Acoustic Intumescent Sealant to clean, dry, dust free surfaces leaving no air gaps.

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

SINGLE LAYER - Staggered Joint Detail

1. **TRADELINE** C Stud
2. Plasterboard as specified
3. **TRADELINE** Drywall Screw

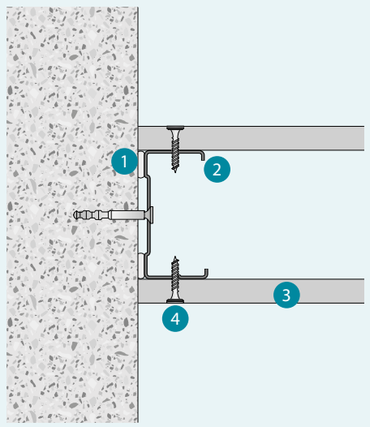


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

SINGLE LAYER - Wall Abutment Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** C Stud fixed with suitable fixings @ 600mm max vertical centres
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw



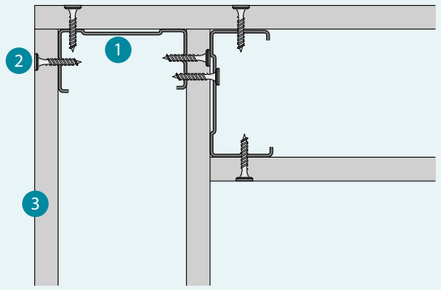
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

SINGLE LAYER – Corner Detail

1. **TRADELINE** C Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified

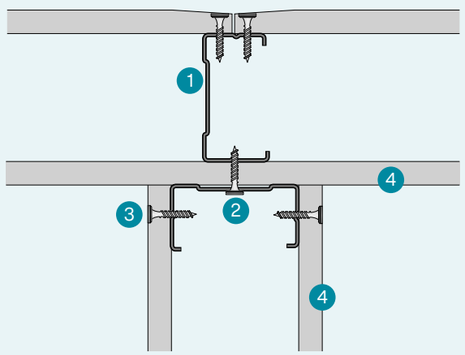


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

SINGLE LAYER – T Junction Detail

1. **TRADELINE** C Stud
2. Align C Stud to line with Partition C Stud and fix at max. 600mm ctrs
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified



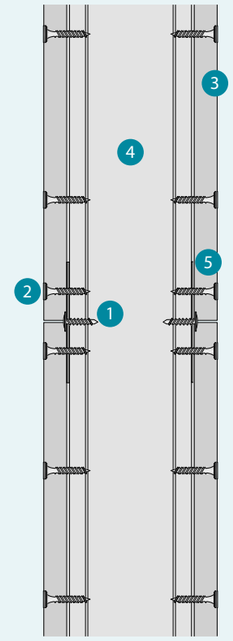
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

SINGLE LAYER – Horizontal Plasterboard Joint Detail

1. **TRADELINE** Wafer Head Drywall Screw
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified
4. **TRADELINE** C Stud
5. **TRADELINE** FS24 (Flat Strap) or PB24 (Partition Brace) behind horizontal plasterboard joint

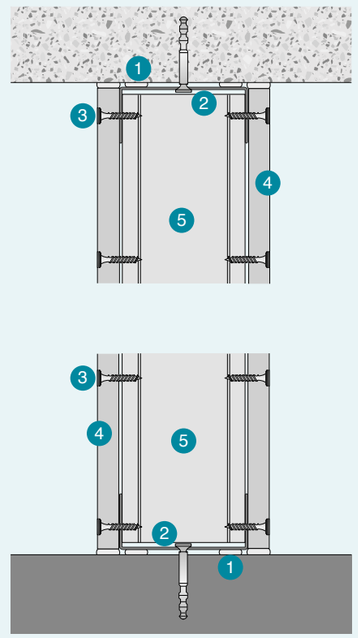


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

SINGLE LAYER – Head and Base Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Track suitably fixed @ 600mm max centres
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified
5. **TRADELINE** C Stud



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

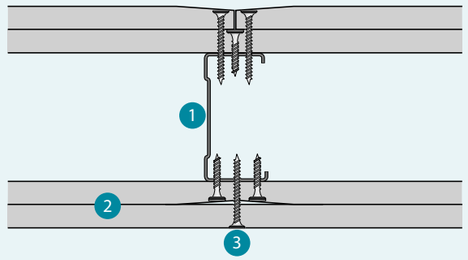
SECTION VIEW

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DOUBLE LAYER - Staggered Joint Detail

1. **TRADELINE** C Stud
2. Plasterboard as specified
3. **TRADELINE** Drywall Screw

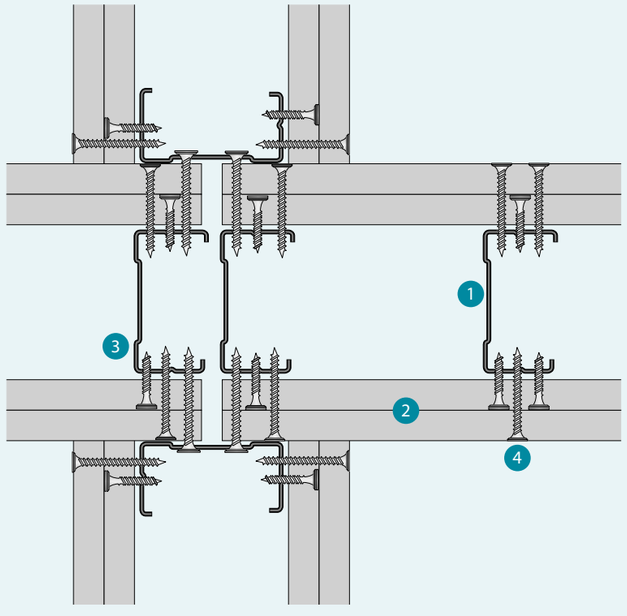


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

DOUBLE LAYER – Four Way Junction Detail

1. **TRADELINE** C Stud
2. Plasterboard as specified
3. Align C Stud to line with partition C Studs and screw fix through boards
4. **TRADELINE** Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

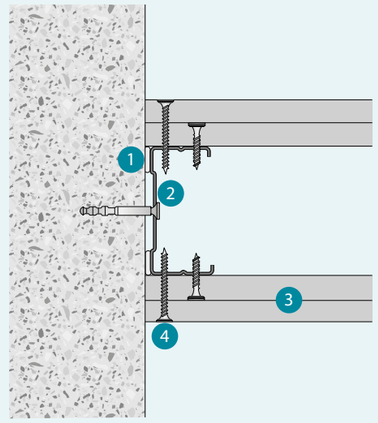
PLAN VIEW

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DOUBLE LAYER - Standard C Stud Partition Wall Abutment Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** C Stud suitably fixed @ 600mm max centres
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw

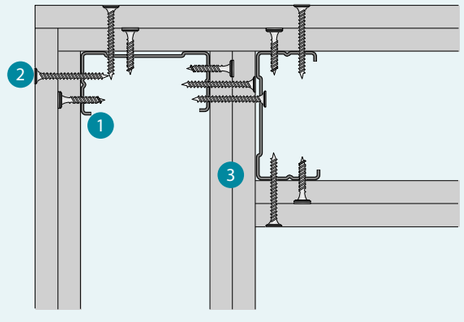


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

DOUBLE LAYER – Standard C Stud Partition Corner Detail

1. **TRADELINE** C Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified



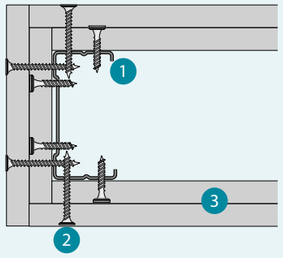
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DOUBLE LAYER - Stop End Detail

1. **TRADELINE** Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified

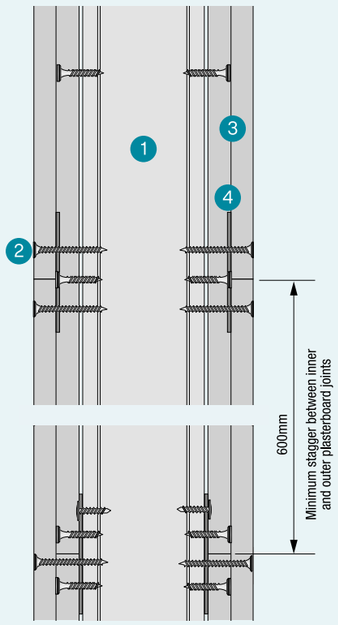


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

DOUBLE LAYER – Horizontal Plasterboard Joint Detail

1. **TRADELINE** Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified
4. **TRADELINE** FS24 (Flat Strap) behind outer horizontal plasterboard joint



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

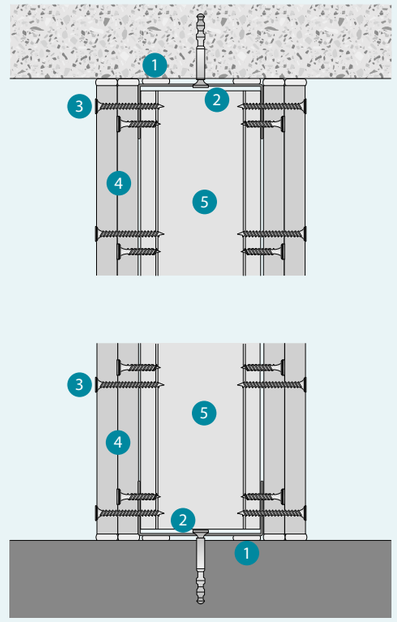
SECTION VIEW

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DOUBLE LAYER - Head and Base Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Track suitably fixed @ 600mm max centres
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified
5. **TRADELINE** Stud



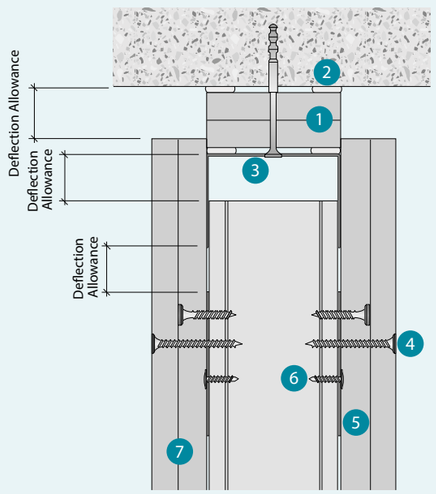
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

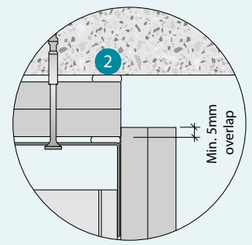
SECTION VIEW

DOUBLE LAYER – Deflection Head Detail 30 & 60 Minutes FS24/PB24 fixed to Studs

1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap/ Partition Brace screw fixed
6. **TRADELINE** Wafer Head Drywall Screws
7. Plasterboard as specified

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/ PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

SECTION VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

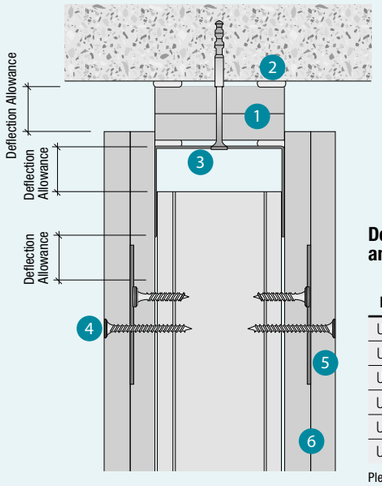
DOUBLE LAYER – Deflection Head Detail 30 & 60 Minutes (FS24 in-between board)

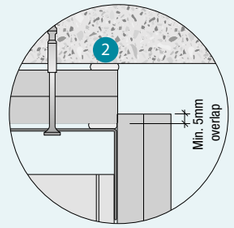
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap fixed in-between the boards
6. Plasterboard as specified

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/ PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

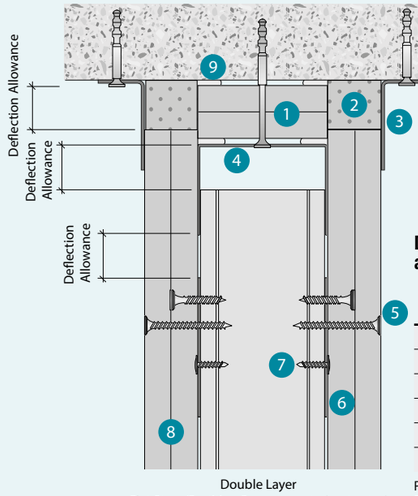
DOUBLE LAYER – Deflection Head Detail 90 & 120 Minute (Cloaking Angle & FS24-PB24 Stud Mounted)

1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @ 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap/Partition Brace screw fixed or crimped
7. **TRADELINE** Wafer Head Drywall Screws
8. Plasterboard as specified
9. **TRADELINE** Acoustic Intumescent Sealant

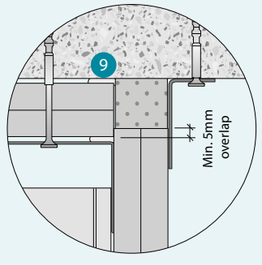
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/ PARTITION BRACE TO ALLOW FOR DEFLECTION



Double Layer
Flat Strap/Partition Brace mounted onto stud



Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

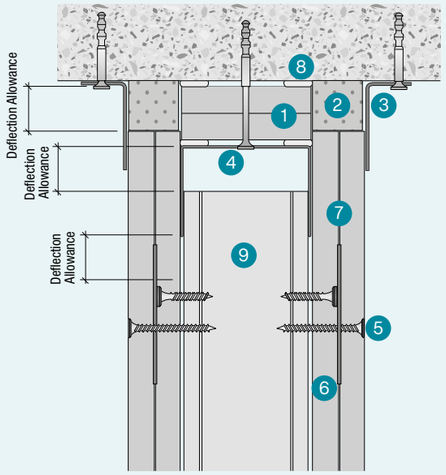
DOUBLE LAYER – Deflection Head Detail 90 & 120 Minute (Cloaking Angle & FS24 in-between board)

1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @ 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap fixed in-between the boards
7. Plasterboard as specified
8. **TRADELINE** Acoustic Intumescent Sealant
9. **TRADELINE** C Stud

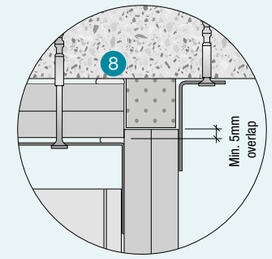
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/ PARTITION BRACE TO ALLOW FOR DEFLECTION



Double Layer
Flat Strap In-between board layers



Deflection Head - Head Track and Packer board guidance

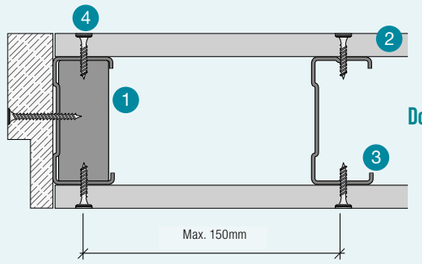
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

Door Jamb Detail

1. **TRADELINE** C Stud with timber insert
2. Plasterboard as specified
3. **TRADELINE** C Stud as Whipper Stud
4. **TRADELINE** Drywall Screw
5. **TRADELINE** C Stud boxed with timber insert
6. **TRADELINE** C Stud boxed

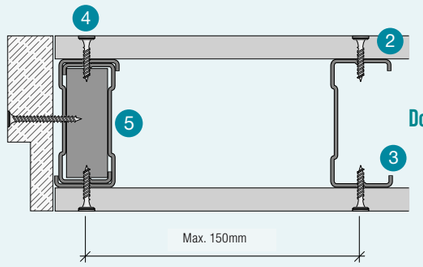


Doors up to 25kg

PLAN VIEW

Head and Floor Tracks removed for clarity

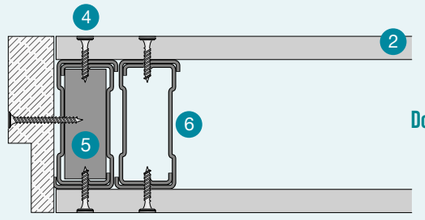
See Door Frame Construction Detail for correct Floor Track up-turn and Transom Top Track down-turn.



Doors up to 60kg

PLAN VIEW

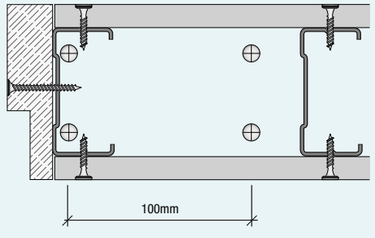
To be installed in conjunction with door manufacturer's recommendation.



Doors up to 100kg

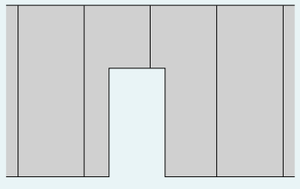
PLAN VIEW

Track Fixing Detail (Boxed Studs & Timber Insert removed for clarity)



PLAN VIEW

Boarding Configuration



ELEVATION

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

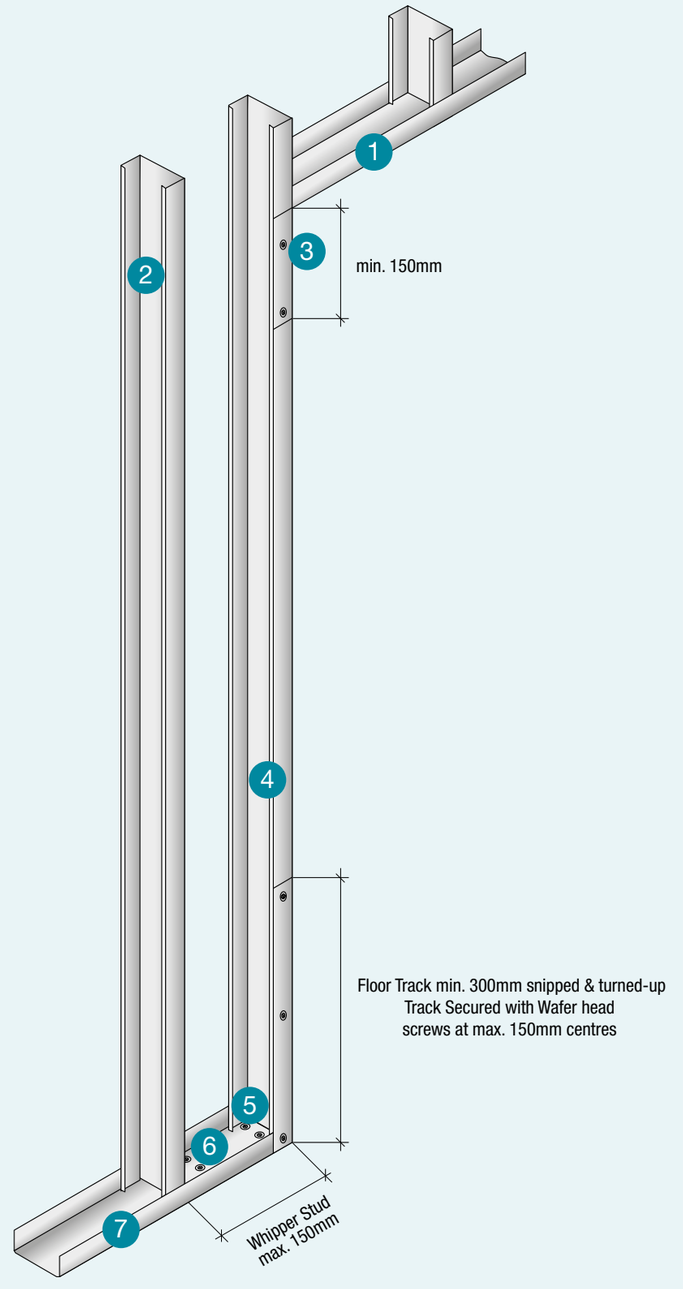
HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DOOR FRAME CONSTRUCTION DETAIL

1. **TRADELINE** Track Cut and bent down Jamb Stud each side
2. **TRADELINE** C Stud as Whipper (where applicable)
3. **TRADELINE** Wafer Head Drywall Screw to secure each side
4. **TRADELINE** C Stud (or boxed where specified) with Timber insert to each side of Door Jamb (timber insert removed for clarity)
5. One pair of fixings at Jamb Stud base
6. One pair of fixings 100mm from end of Jamb Stud base
7. **TRADELINE** Track with 300mm leg cut and returned up on both sides of Door Jamb Stud

For up to 900mm door lintel



Floor Track min. 300mm snipped & turned-up Track Secured with Wafer head screws at max. 150mm centres

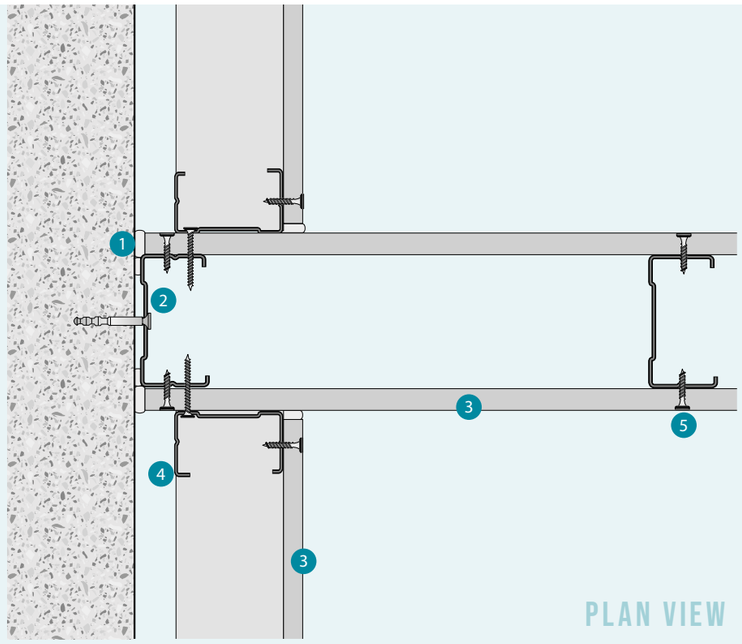
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

ISOMETRIC VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

PARTITION JUNCTION to optimise acoustic performance

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** C Stud fixed at max. 600mm ctrs to the substrate
3. Plasterboard as specified
4. **TRADELINE** C Stud
5. **TRADELINE** Drywall Screw

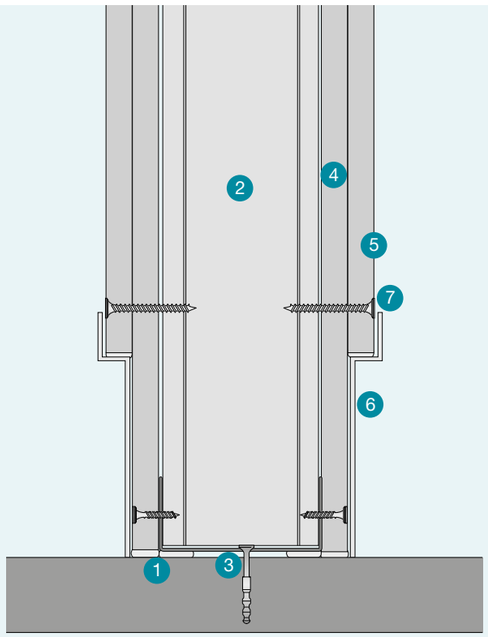


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

SACRIFICIAL LINING with recessed skirting

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** C Stud
3. **TRADELINE** Track fixed at max. 600m ctrs
4. Plasterboard as specified
5. Sacrificial Plasterboard layer as specified
6. Skirting Trim supplied by others
7. **TRADELINE** Drywall Screws



Note: Sacrificial Plasterboard Layer should not be accounted for partition performance.
Partition performance to be maintained by continuous inner layer(s) of plasterboard.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

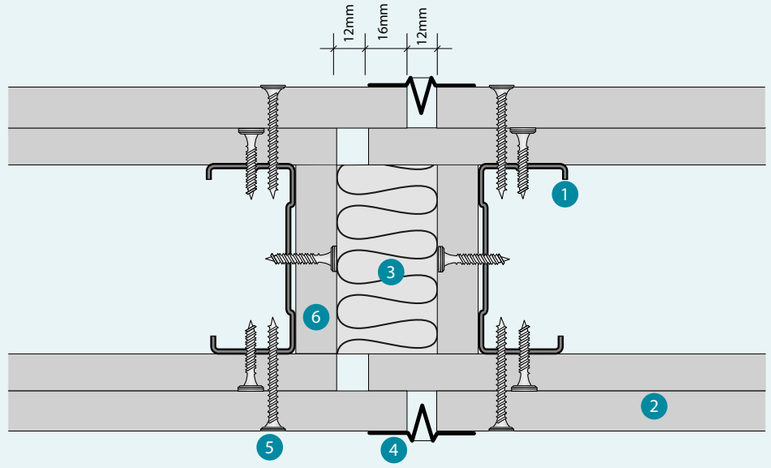
SECTION VIEW

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

Typical movement control joint

1. **TRADELINE** C Stud
2. Plasterboard as specified
3. Rockwool Insulation to suit
4. Movement Control Joint
5. **TRADELINE** Drywall Screw
6. Plasterboard to suit performance fixed back to stud

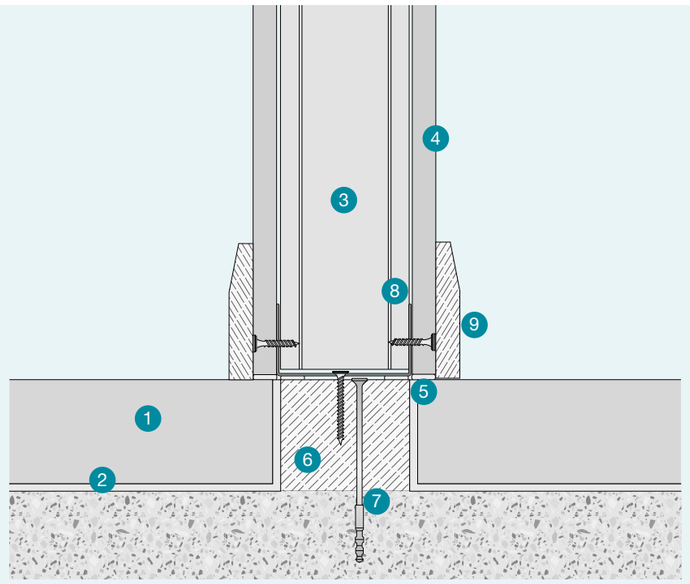


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

PARTITIONS - C Stud Base with timber sole plate and screed

1. Concrete or Floating screed
2. Resilient Membrane
3. **TRADELINE** C Stud
4. Plasterboard as specified
5. **TRADELINE** Acoustic Intumescent Sealant
6. Timber Sole Plate to suit
7. Suitable fixings
8. **TRADELINE** Track
9. Skirting Board



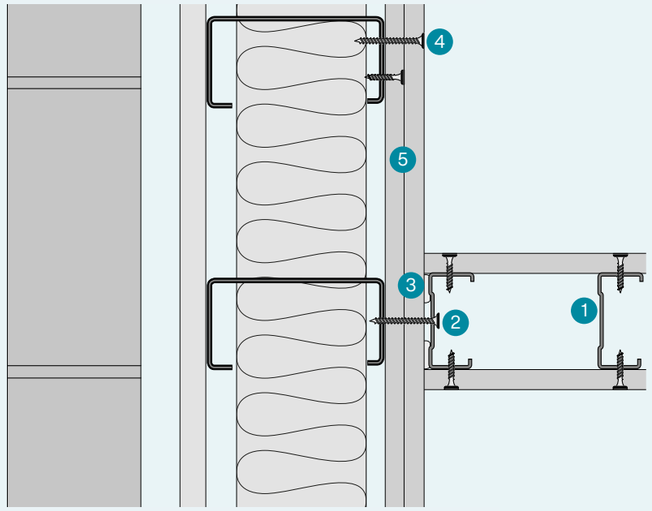
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

EXTERNAL SFS and standard Partition

1. **TRADELINE** C Stud
2. Align internal C Stud to line with external SFS C Stud and fix
3. **TRADELINE** Acoustic Intumescent Sealant
4. **TRADELINE** Drywall Screw
5. Plasterboard as specified

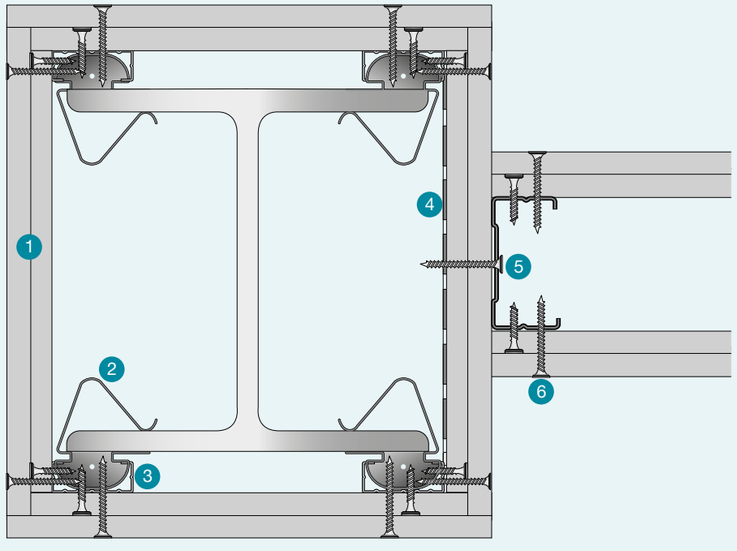


PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PARTITION into Column

1. Fire Resistant Plasterboard as specified
2. **TRADELINE** Steel Framing Clips AWL10B
3. **TRADELINE** Wall/Ceiling Liner Channel TWL507
4. **TRADELINE** Partition Brace fixed between Wall/Ceiling Liner Channel at 600mm ctrs
5. **TRADELINE** C Stud fixed at 600mm ctrs through plasterboard to Partition Brace
6. **TRADELINE** Drywall Screw



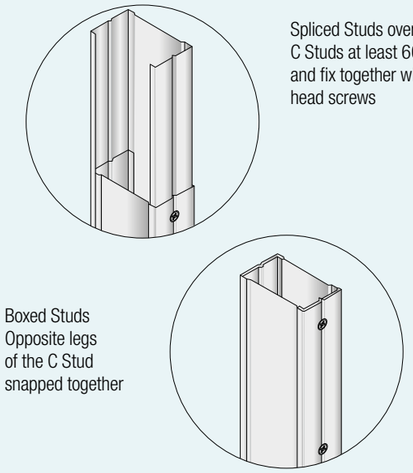
PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

STUD SPLICING - Extending and Boxing

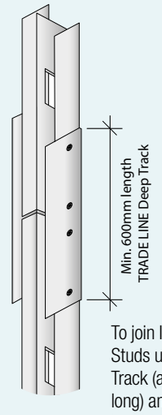
C STUD – SPLICING AND BOXING



Spliced Studs overlap C Studs at least 600mm and fix together with wafer head screws

Boxed Studs Opposite legs of the C Stud snapped together

I STUDS AND ACOUSTIC STUDS



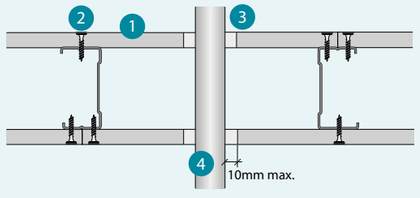
To join I and Acoustic Studs use a piece of Deep Track (approx. 600mm long) and fix with wafer head screws

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

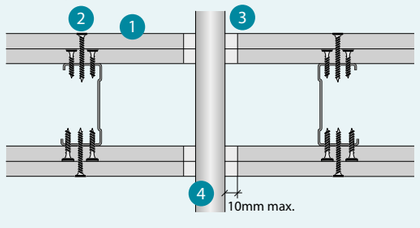
PIPE PENETRATION – Up to 39mm diameter

1. Plasterboard of specified type
2. **TRADELINE** Drywall Screw
3. Suitably fire stopped by others
4. Penetrating Pipework

Single Layer Penetration

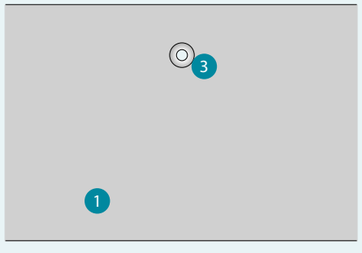


Double Layer Penetration



PLAN VIEW

Front Elevation



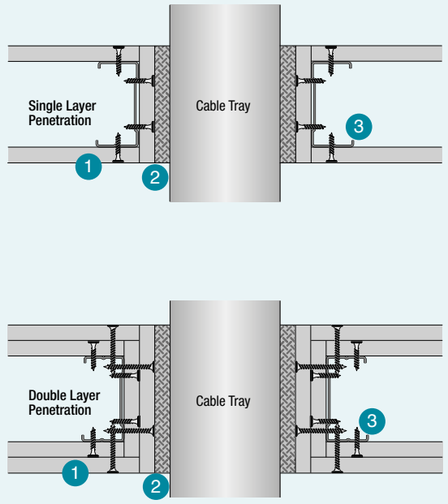
ELEVATION

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

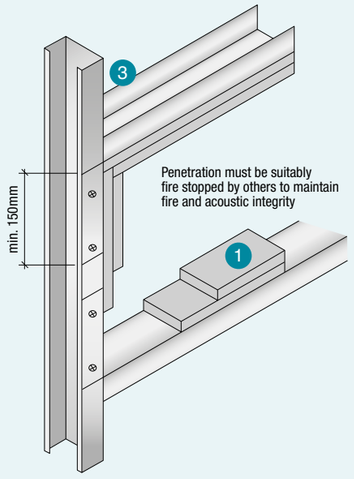
TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

CABLE TRAY - Letterbox Framework

1. Plasterboard of specified type
2. Suitable Fire Stopping Material
3. Framework created by **TRADELINE** C Stud and Track



PLAN VIEW



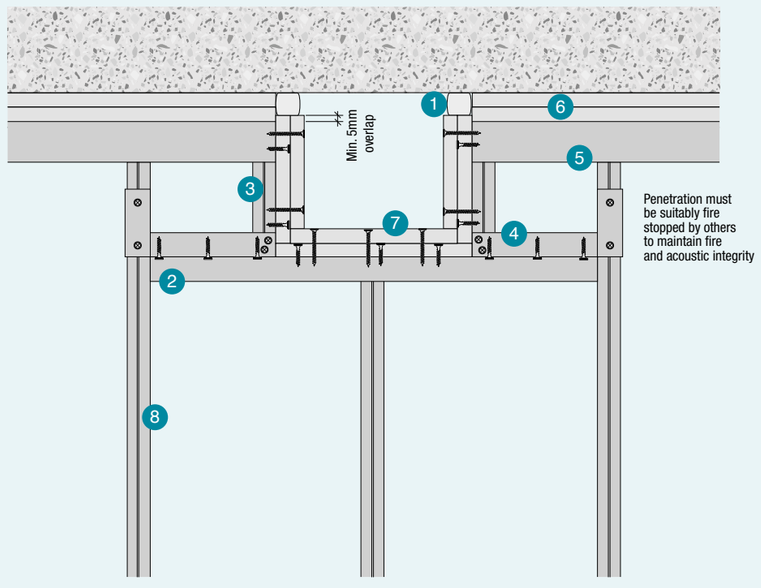
ISOMETRIC VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

NOTE: Opening aperture lined as per the partition layers. All joints staggered

CABLE TRAY – Penetration at soffit

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Track cut and bent up at each side and fixed to the stud
3. **TRADELINE** C Stud cut short to suit deflection and fixed to the track
4. **TRADELINE** Track cut to the length and fixed to the Track below
5. Deflection Head as specified
6. Packer board to suit deflection requirement
7. Line plasterboards within the opening and fixed to the framework
8. **TRADELINE** C Stud



Ensure that the deflection was maintained (if required) and the boards within the opening overlaps min. 5mm to the packer board

FRONT VIEW

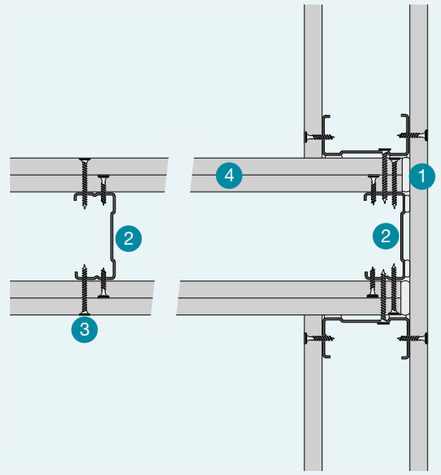
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

ACOUSTIC T JUNCTION

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** C Stud
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TYPICAL FRAMING OUT DETAIL

1. **TRADELINE** Track (70mm Leg length) snipped and bent min. 150mm to jamb Stud to form lintel and cill
2. **TRADELINE** C Stud fixed to the Jamb studs as section bracket
3. **TRADELINE** Track fixed at max. 600m ctrs
4. **TRADELINE** C Stud screw fixed to tracks at max. 300 centres below cill
5. Additional Support Stud
6. **TRADELINE** Wafer Head Drywall Screw

On spans up to 2700mm snip track and utilise 150mm return to secure lintel and cill track to jamb studs. On spans over 2700mm (to a maximum of 3000mm) utilise short sections of support studs as denoted by number 2 above.

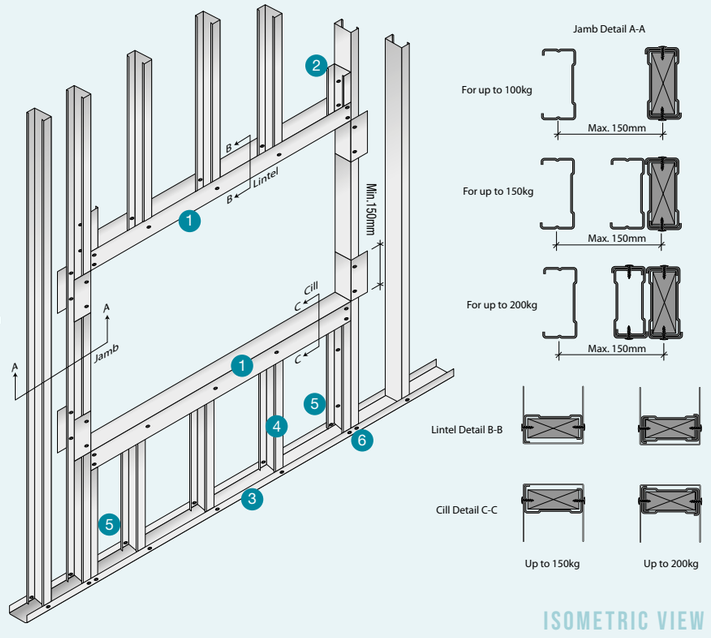
Maximum plasterboard restriction above opening in deflection head applications:-

- 2400mm double layer systems
- 4800mm Single layer systems

In fixed head applications no restriction on board above opening other than denoted maximum system height.

For Spans over 3000mm structural steel frame (by others) is required to provide suitable support. Additional structural support should also be considered in instances where specific loading requirements are required.

If fire performance is required for the partition with glazed screen included please check with manufacturer for compliancy and installation recommendations.

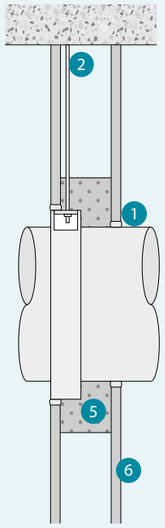


ISOMETRIC VIEW

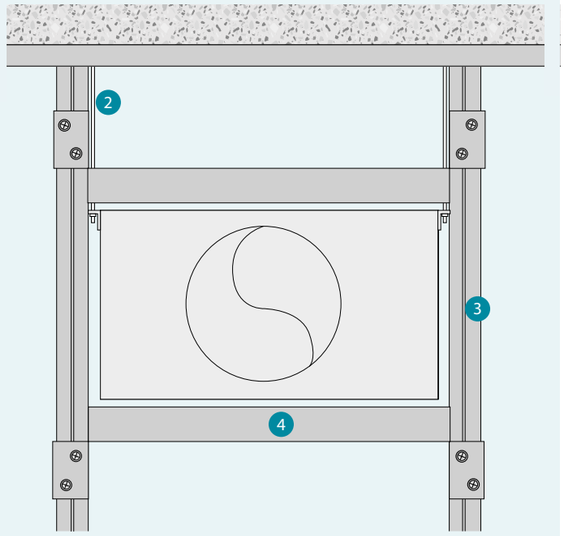
TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DAMPER INSTALLATION
Framework Model

1. **TRADELINE** Acoustic Intumescent Sealant
2. Damper suitably fixed to the soffit independently from partition
3. **TRADELINE** C Stud
4. **TRADELINE** Deep Track cut and bent at each side and fixed to the stud
5. Fire stopping by others
6. Plasterboard as specified



SECTION VIEW

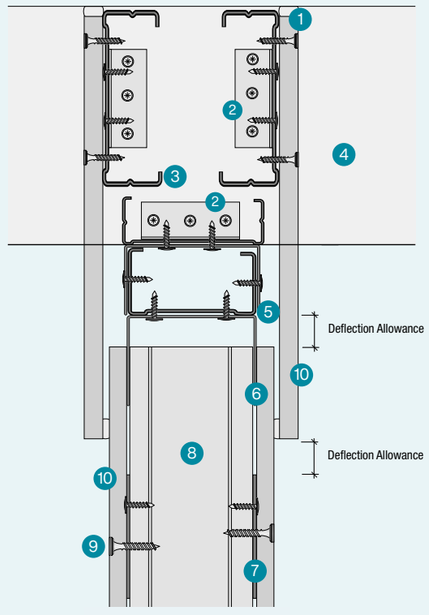


FRONT VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

DEFLECTION HEAD – perpendicular to purlin

1. **TRADELINE** Acoustic Intumescent Sealant
2. Suitable metal angle fixed in between purlin web to receive C Stud or Track
3. **TRADELINE** C Stud or Track fixed to metal angle
4. Purlin
5. **TRADELINE** Track & C Stud boxed out and fixed to purlins
6. **TRADELINE** Track fixed to box section above
7. **TRADELINE** Flat Strap or Partition Brace
8. **TRADELINE** C Stud
9. **TRADELINE** Drywall Screw
10. Plasterboard as specified



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

HOW TO BUILD | TRADELINE STUD AND TRACK - PARTITIONING SYSTEMS

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

DEFLECTION HEAD parallel to floor profile - up to 60 Minutes

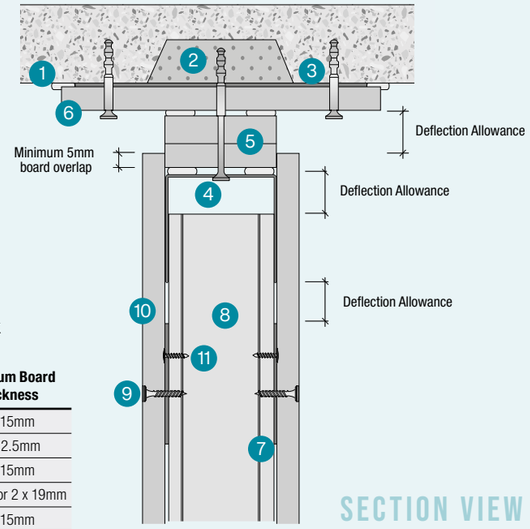
1. **TRADELINE** Acoustic Intumescent Sealant
2. Suitable insulation as specified by fire and acoustic consultants
3. **TRADELINE** Partition Brace fixed to soffit with suitable fixings at 600mm max. ctrs
4. **TRADELINE** Track suitably fixed to Partition Brace @600mm max centres
5. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
6. Continuous Fire rated plasterboard fixed on to the soffit above through the Partition Brace
7. **TRADELINE** Flat Strap
8. **TRADELINE** C Stud
9. **TRADELINE** Drywall Screw
10. Plasterboard as specified
11. **TRADELINE** Wafer Head Drywall Screw

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board



SECTION VIEW

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

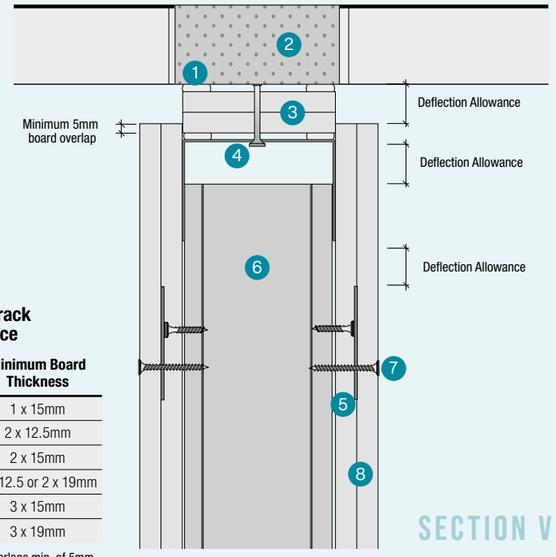
DEFLECTION HEAD perpendicular to floor profile – up to 60 Minutes

1. **TRADELINE** Acoustic Intumescent Sealant
2. Suitable fire stopping within soffit void to be specified by acoustic and fire consultants
3. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
4. **TRADELINE** Track suitably fixed to profiled soffit
5. **TRADELINE** Flat Strap
6. **TRADELINE** C Stud
7. **TRADELINE** Drywall Screw
8. Plasterboard as specified
9. **TRADELINE** Wafer Head Drywall Screw

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board



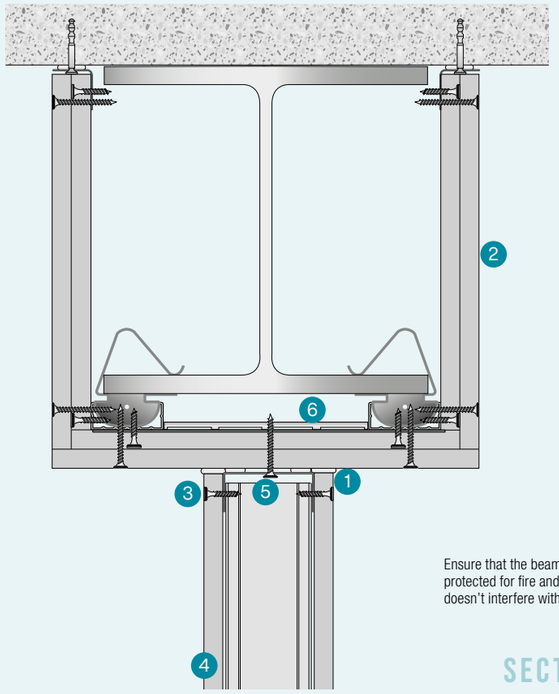
SECTION VIEW

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE STUD AND TRACK – PARTITIONING SYSTEMS

JUNCTION OF PARTITION along beam (non-acoustic)

1. **TRADELINE** Acoustic Intumescent Sealant
2. Beam encased using **TRADELINE** Column and Beam Encasement System before partition installation
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified
5. Fix head track at max. 600mm centres through the **TRADELINE** Partition Brace and boards using suitable fixing
6. **TRADELINE** Partition Brace



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

Ensure that the beam has been sufficiently protected for fire and the encasement doesn't interfere with the intumescent paint

SECTION VIEW

TRADELINE PARTITIONING SYSTEMS INSTALLATION CHECK LIST

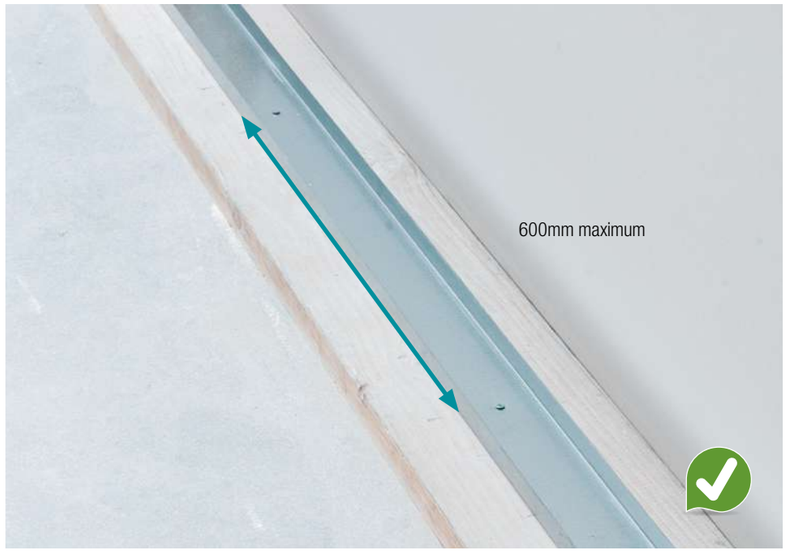
APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✓

FIXING TRACKS

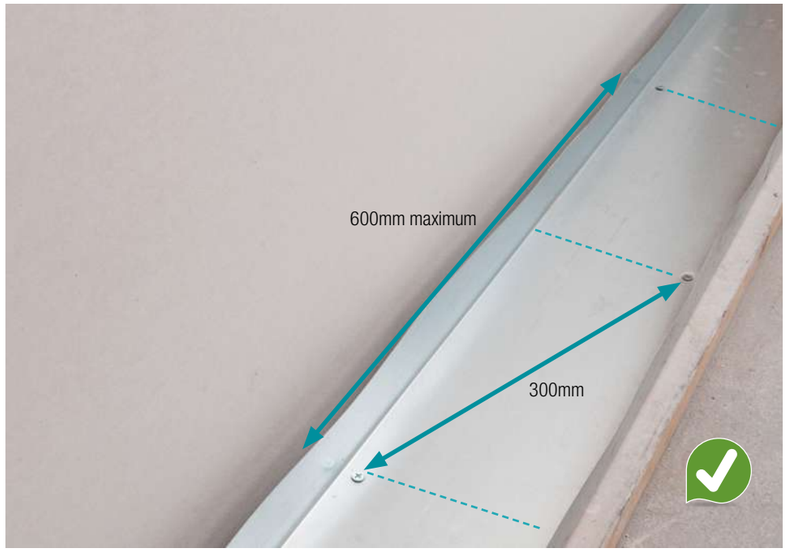
52mm, 62mm and 72mm tracks should be fixed down the centre at a maximum of 600mm centres, however if you are using a 94mm or 148mm track, you must stagger the fixings as shown.

End fixings to be a maximum of 50mm from the end of the table.

52mm, 62mm and 72mm tracks suitably fixed at a maximum of 600mm centres down the centre of the track.



94mm and 148mm tracks are suitably fixed with pairs of fixings at 600mm centres staggered by 300mm down the full length of the track



ENSURE A SUITABLE TRACK SIZE HAS BEEN INSTALLED FOR THE CORRECT APPLICATION. (i.e. DEEP TRACK FOR PARTITIONS OVER 4 METRES AND DEFLECTION HEADS)

ENSURE TRACKS HAVE BEEN SECURED AT THE CORRECT FIXING POSITIONS AND CENTRES

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✗

DEFLECTION HEAD DETAILS

Applying **TRADELINE** Acoustic Intumescent sealant in the correct areas ensures that acoustic and fire integrity is maintained.

STEP 1: Two beads of **TRADELINE** Acoustic Intumescent sealant must be applied to the track prior to applying the plasterboard packers.

STEP 2: Two beads of **TRADELINE** Acoustic Intumescent sealant must be applied to the head packers prior to offering the track up to the soffit.

STEP 3: The track must be fixed to the soffit at every 600mm centres using the appropriate length fixing.

ENSURE ALL AIR GAPS HAVE BEEN SUITABLY SEALED USING TRADELINE ACOUSTIC INTUMESCENT SEALANT

ENSURE TRADELINE ACOUSTIC INTUMESCENT SEALANT HAS BEEN APPLIED IN THE CORRECT PLACES AS PER THE IMAGES ABOVE

ENSURE TRACKS HAVE BEEN SECURED AT THE CORRECT FIXING POSITIONS AND CENTRES

PARTITIONING SYSTEMS INSTALLATION CHECK LIST | DEFLECTION HEAD DETAILS

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✗
SHAFT ENCASEMENT	✗

DEFLECTION HEAD DETAILS

Head Packers ensure that the head track is encased within the partition. Exposed steel could affect the partition's acoustic and fire integrity.

Depending on the deflection requirements, Track type and head packer thicknesses will vary. Please use table to check you have dropped the soffit to suit the deflection allowance.

For various deflection head requirements please refer to table below:

Deflection Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

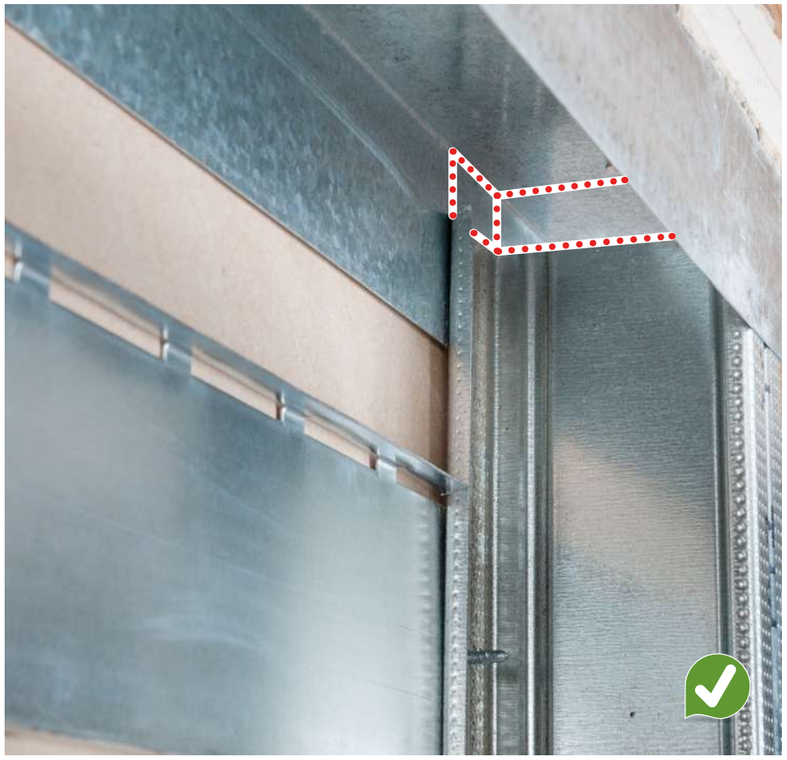
Please ensure that the facing board overlaps min. 5mm with the packer board. This can also be achieved with deflections up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm Tradeline acoustic intumescent sealant to the underside of the soffit.

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✗
SHAFT ENCASEMENT	✗

DEFLECTION HEAD DETAILS

Cutting the Studs short is essential to allow for any structural movement. The amount of stud that is cut should match the deflection allowance specified. For example, if a 25mm downward deflection is required, then the Studs must be cut short by 25mm.

It is also vital that the Studs are not cut too short and as a general rule the stud must engage to the track by at least 19mm.



Ensure that a solid section of stud is within engagement of the track. It is vital that service holes do not coincide with the head track.

- ENSURE STUDS HAVE BEEN CUT SHORT TO PROVIDE THE CORRECT DEFLECTION ALLOWANCE
- ENSURE STUDS HAVE BEEN CUT SO THAT SOLID SECTIONS ONLY ARE ENGAGED WITHIN THE HEAD TRACKS
- ENSURE STUDS HAVE NOT BEEN MECHANICALLY FIXED AND ARE ALLOWED TO MOVE FREELY SHOULD DEFLECTION OCCUR

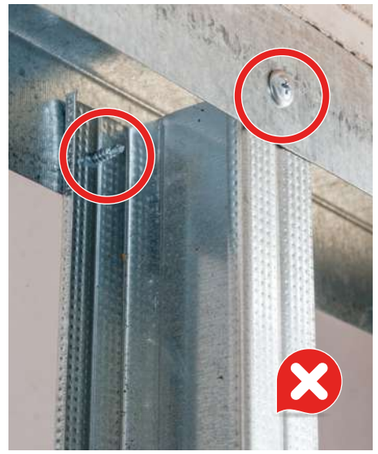
PARTITIONING SYSTEMS INSTALLATION CHECK LIST | DEFLECTION HEAD DETAILS

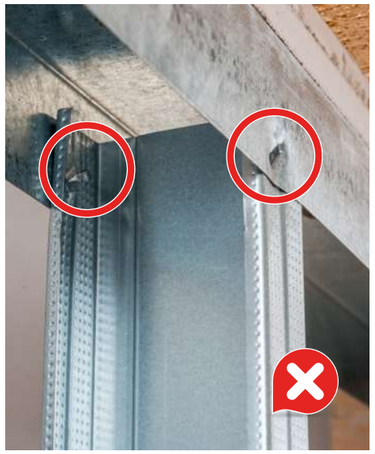
APPLICABLE FOR

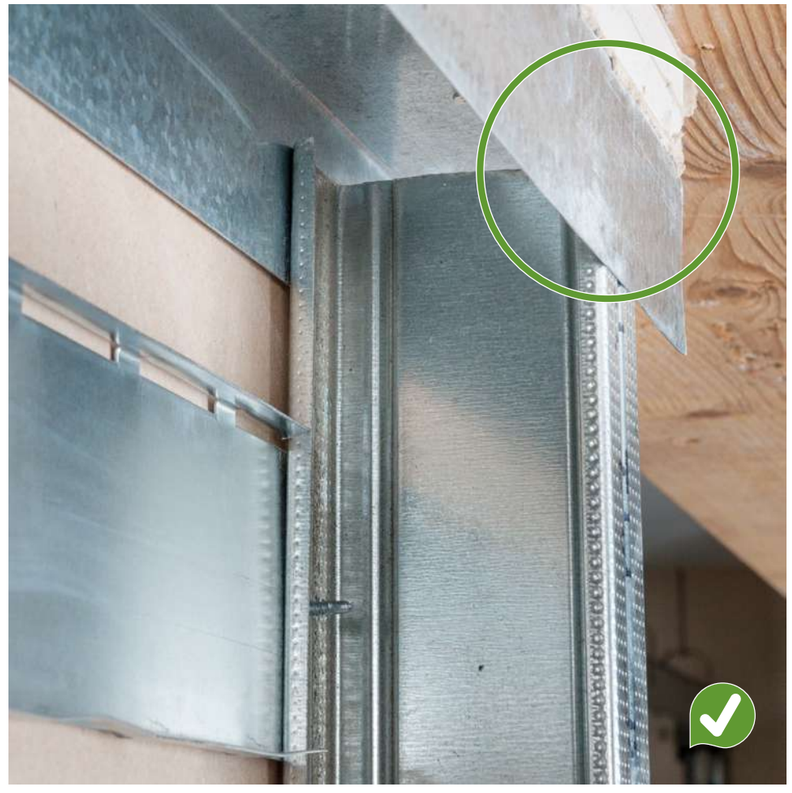
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✓

DEFLECTION HEAD DETAILS

It is important that you **DO NOT** mechanically fix the stud to the head track so it can move independently when deflection occurs. Crimping can also restrict the free movement of the deflection head.







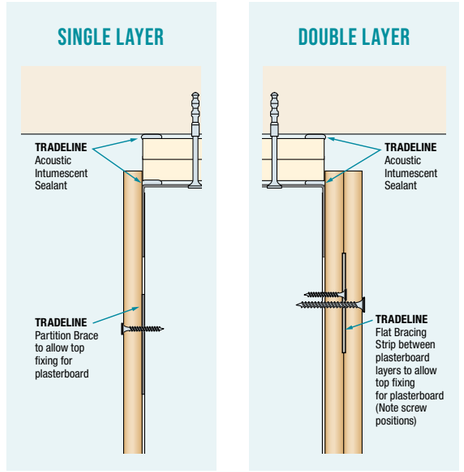
- ENSURE STUDS HAVE NOT BEEN MECHANICALLY FIXED OR CRIMPED INTO THE HEAD TRACK

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✗
SHAFT ENCASEMENT	✓

DEFLECTION HEAD DETAILS

To maintain the 300mm perimeter fixings you must incorporate a piece of **TRADELINE** FS24 Flat Strip or **TRADELINE** PB24 Partition Brace as fixing directly into the top track will stop deflection occurring.

The bracing should be installed below the track by the set deflection limit as shown in the right hand drawing.



Failing to install bracing will create a weak point at the top of the partition which ultimately will compromise fire and mechanical performance.

If utilising **TRADELINE** FS24 Flat Strip as opposed to **TRADELINE** PB24 Partition Brace, it can be positioned directly on the stud or in-between the layers of plasterboard in a double layer system.

ENSURE TRADELINE FS24 FLAT STRIP OR TRADELINE PB24 PARTITION BRACE HAS BEEN INSTALLED TO SATISFY THE 300mm PERIMETER FIXINGS

ENSURE BRACING HAS BEEN INSTALLED BELOW THE HEAD TRACK BY THE DEFLECTION ALLOWANCE SET AS PER THE DRAWING ABOVE

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✗
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✗

SPLICING/BOXING STUDS

C STUDS

To enable the splicing/boxing of C Studs, the bearing faces of the C Studs are asymmetrical – 32mm and 34mm – simply nest the short and long faces alternately and snap together.

Splicing – Image A

TRADELINE C Studs can be spliced by creating an overlap of 600mm and securing both sections together with four **TRADELINE** Wafer Head Drywall Screws on both flanges.

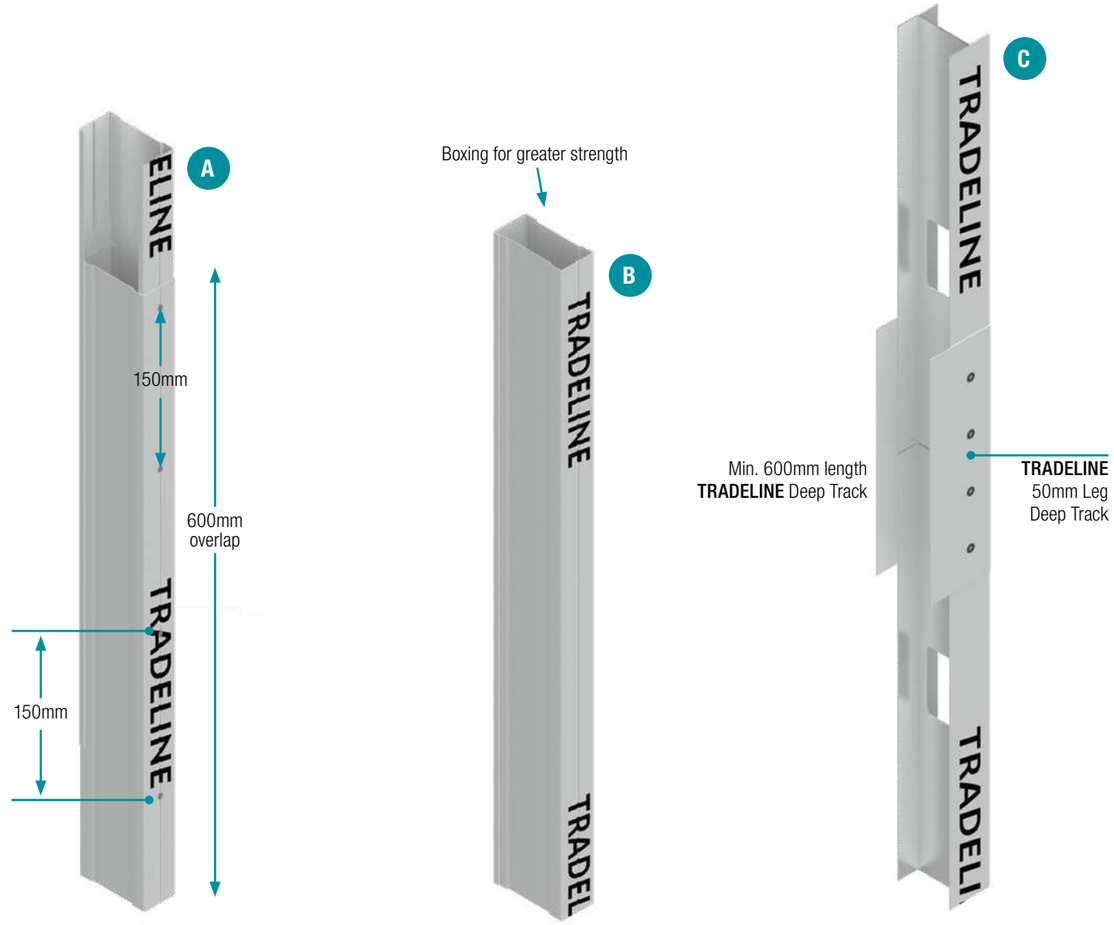
Boxing – Image B

To create greater rigidity and height and to provide support at doorways, C Studs may be boxed together the full length.

I STUDS

Splicing – Image C

To join lengths of I Studs together, use a 600mm length of Deep Track to cloak over where the two lengths butt together.
This must then be secured by using 4 **TRADELINE** Wafer Head Drywall Screws down each flange – 2 fixings either side of the join.

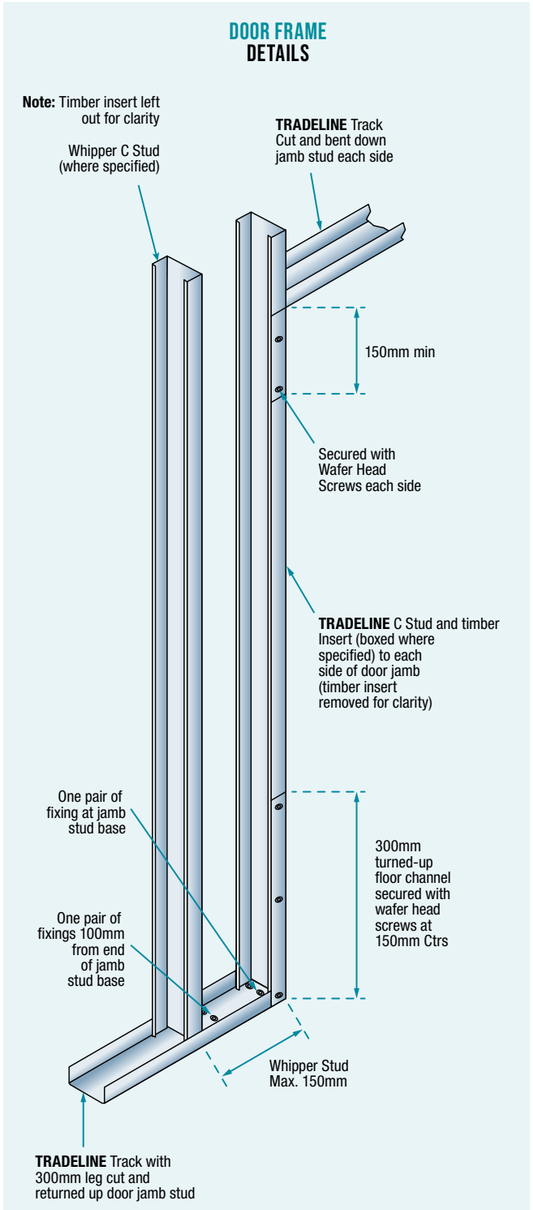


ENSURE STUDS HAVE BEEN SPLICED CORRECTLY AS PER THE IMAGES ABOVE

ENSURE STUDS HAVE BEEN BOXED CORRECTLY AS PER THE IMAGES ABOVE

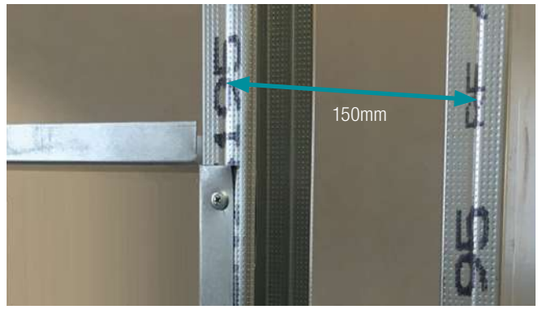
APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✗
SHAFT ENCASEMENT	✗

DOOR FRAME DETAILS



Ensure that the floor channel and transom track above the aperture has been correctly up/downturned to maintain rigidity of the partition.

Transom track has been downturned by a minimum of 150mm



Ensure a Wiper Stud has been positioned 150mm away from the Jam Stud.

Floor Track has been upturned by 300mm

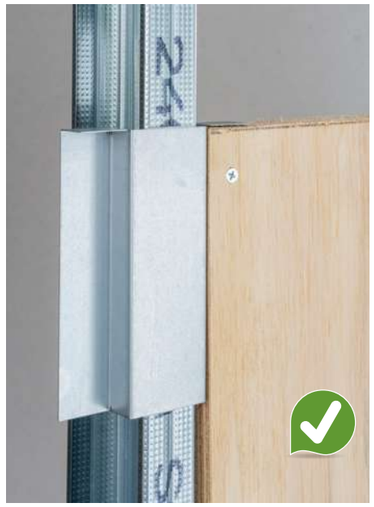
- ENSURE A WHIPPER STUD BEEN APPLIED EITHER SIDE OF FRAME MAX. 150mm AWAY FROM THE FRAME PERIMETER STUDS
- ENSURE THE BOTTOM TRACK BEEN UPTURNED TO JAMB STUD BY A MINIMUM OF 300mm
- ENSURE THE TRANSOM TOP TRACK HAS BEEN DOWNTURNED TO JAMB STUD BY A MINIMUM OF 150mm

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✗
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✓

PATTRESS INSTALLATION

TRADELINE ASP19B service support plates are suitable for supporting 18mm plywood and provide a flush fixing surface.

RECOMMENDATION:
Include one **TRADELINE** Wafer Head Drywall Screws through one of the service support plates into the stud to reduce the risk of the pattressing moving out of position.



If installing plywood for a resilient bar partition, this method must only be used on the non resilient bar side of the partition ONLY.

Plywood should not be secured using pieces of flat strip or partition brace or fixed directly to the board.

- ENSURE 18mm PLYWOOD HAS BEEN INSTALLED CORRECTLY USING SERVICE SUPPORT PLATES
- ENSURE ASP19B TRADELINE SERVICE SUPPORT PLATES HAVE BEEN INSTALLED CORRECTLY USING THE CORRECT THICKNESS OF PATTRESS MATERIAL

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✓

PATTRESS INSTALLATION

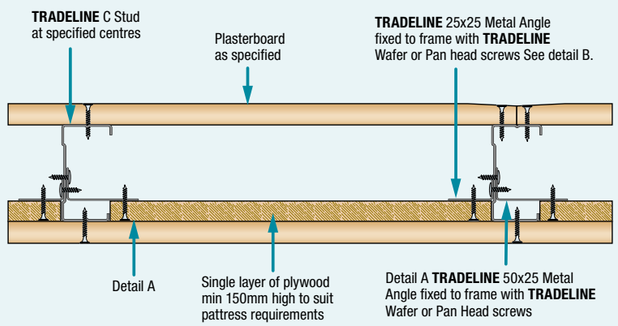
If **TRADELINE** Service Support Plates aren't being used to install the pattressing, the following method can be used.

In Image A where the pattress meets the open end of the stud, a section of **TRADELINE** TSL12 (25mm x 50mm Angle) should be fixed to the inside of the stud with the long end extending past the flange to provide the fixing surface.

In Image B, the pattress should butt up to the back of the stud and be retained from behind using a section of **TRADELINE** TSL06 (25mm x 25mm angle) and be secured using **TRADELINE** Drywall Screws.

Refer to the drawing below for guidance.

PLYWOOD PATTRESS WITHIN PARTITION OR LINING SYSTEM



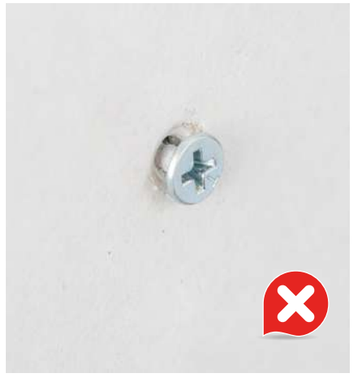
ENSURE PLYWOOD HAS BEEN INSTALLED CORRECTLY USING THE ABOVE METHOD

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT ENCASEMENT	✓

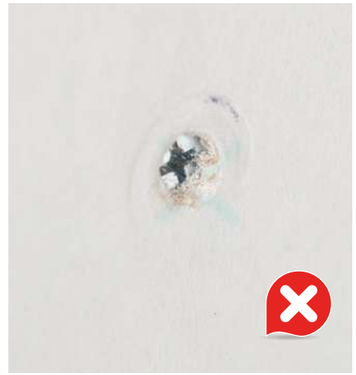
FIXING PLASTERBOARD

Screw head is correctly sitting flush with the plasterboard paper line

Screw head is incorrectly protruding the board face.



Screw head has incorrectly been sunk too far into the board below the paper line.

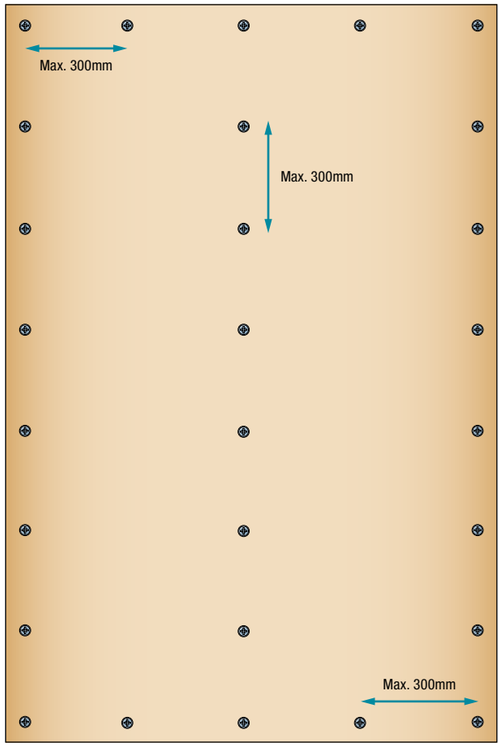


PLASTERBOARD FIXING CENTRES

Ensure that the outer board is fixed at a maximum of 300mm centres around the perimeter and down the body of the board as shown.

If installing a double layer system, the inner layer should be tacked in place at 600mm centres to allow for further fixings coming through from the outer layer.

Based on the Plasterboard layers, use appropriate drywall fixing lengths, as given in the table below



Plasterboard Fixing length guide

Plasterboard Board Thickness	TRADELINE Drywall Fixing Length
12.5mm or 15mm	25mm
12.5mm + 12.5mm	25mm + 38mm
12.5mm + 15mm	25mm + 42mm
15mm + 15mm	25mm + 42mm

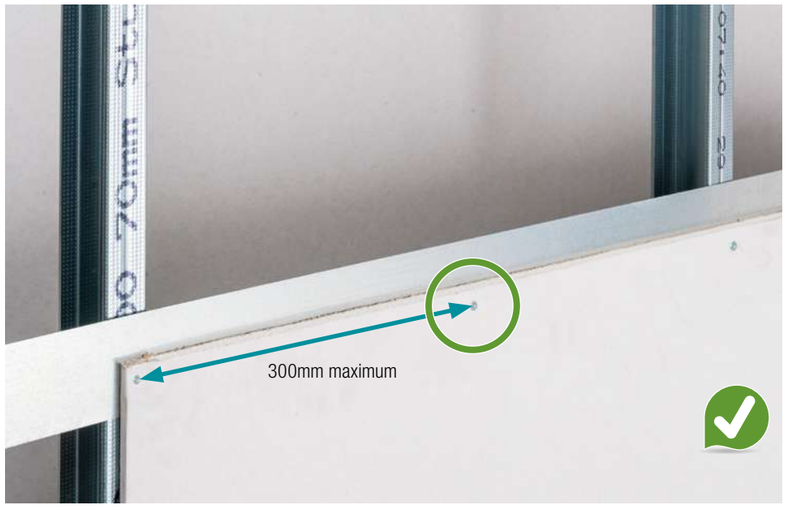
ENSURE SCREW HEADS SIT FLUSH WITH PLASTERBOARD

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✗
SHAFT ENCASEMENT	✓

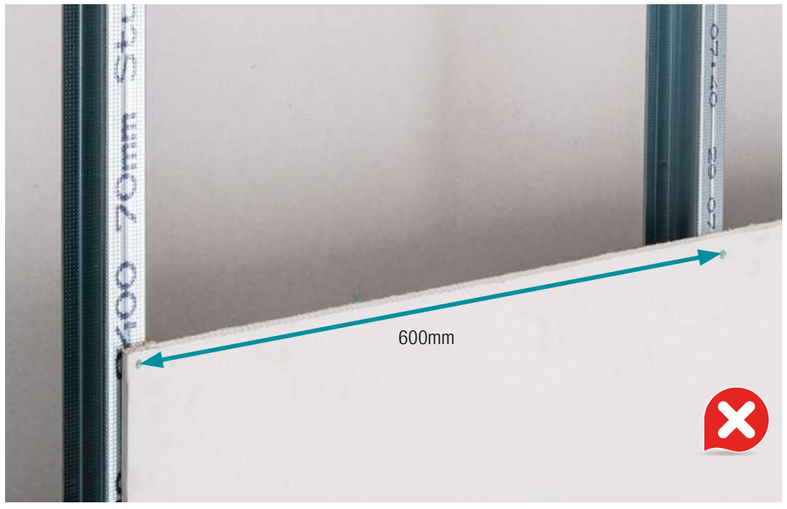
HORIZONTAL BOARD JOINT BRACING

Wherever horizontal joints appear on a partition, **TRADELINE** PB24 Partition Brace or a **TRADELINE** FS24 Flat Strip must be present in order to maintain the 300mm perimeter fixings. It is also essential for fire certification and to help avoid plasterboard cracking.

SINGLE LAYER CORRECT METHOD OF BUILD



SINGLE LAYER INCORRECT METHOD OF BUILD



ENSURE HORIZONTAL BRACING HAS BEEN INSTALLED WHERE HORIZONTAL PLASTERBOARD JOINTS ARE PRESENT

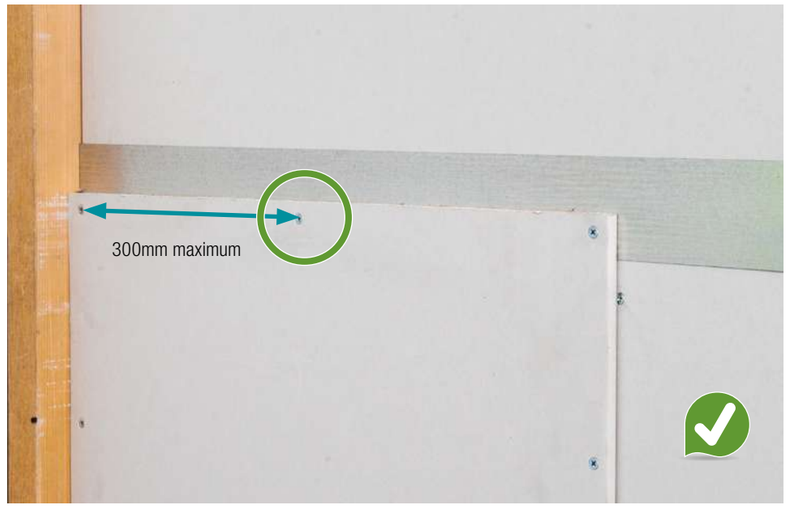
PARTITIONING SYSTEMS INSTALLATION CHECK LIST | HORIZONTAL BOARD JOINT BRACING

APPLICABLE FOR
SINGLE FRAME ✓
ACOUSTIC STUD ✓
TWIN FRAME ✓
RESILIENT BAR ✓
SHAFT ENCASEMENT ✓

HORIZONTAL BOARD JOINT BRACING

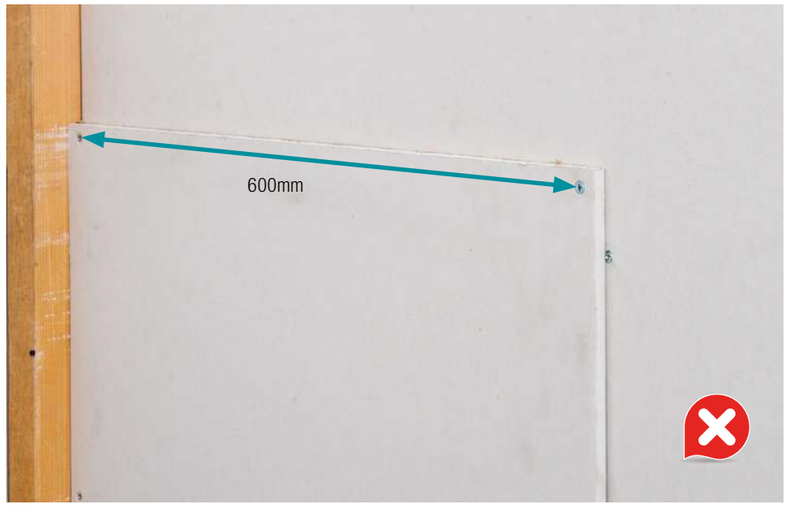
Wherever horizontal joints appear on a partition, **TRADELINE** FS24 Flat Strip must be present in order to maintain the 300mm perimeter fixings. It is also essential for fire certification and to help avoid plasterboard cracking.

DOUBLE LAYER CORRECT METHOD OF INSTALLATION



Note: Flat strip can be positioned between board layers or fixed directly to studs prior to boarding.

DOUBLE LAYER INCORRECT METHOD OF BUILD



FOR NON RESILIENT BAR SIDE ONLY

ENSURE HORIZONTAL BRACING HAS BEEN INSTALLED WHERE HORIZONTAL PLASTERBOARD JOINTS ARE PRESENT

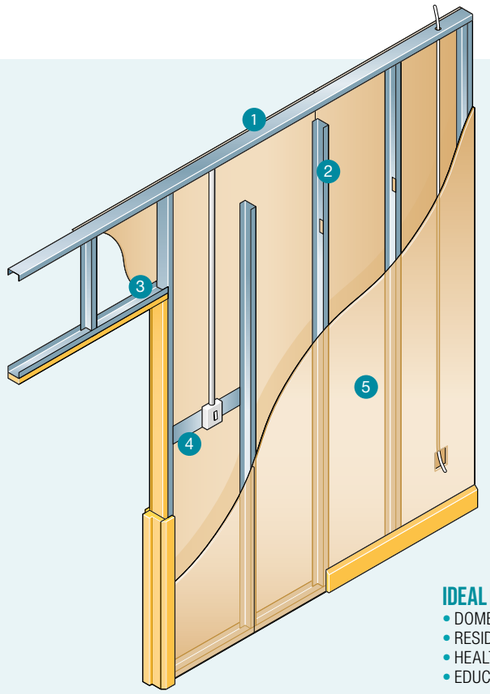
TRADELINE ACOUSTIC STUD PARTITIONS

TRADELINE Acoustic Stud systems are lightweight, non load-bearing, friction fit systems. Due to their innovative design, TRADELINE Acoustic Studs provide improved levels of sound insulation when compared to standard C stud partitions.

Tradeline Acoustic Stud is designed to offer better sound insulation in the key speech frequency bands (250 to 1000Hz) whilst maintaining structural stength and integrity. This enables slimmer partitions to be constructed, maximising floor space but still satisfying high acoustic requirements.

TRADELINE Acoustic Stud Partitioning

1. **TRADELINE** Track suitably fixed @ 600mm max. centres
2. **TRADELINE** Acoustic Stud
3. **TRADELINE** Track snipped and folded to form head
4. **TRADELINE** Partition Brace
5. Plasterboard as specified



Benefits

- Quick to erect, lightweight and clean
- Metal stud is dimensionally accurate and will not twist or bow
- Range of stud widths – 70mm and 92mm to meet different performance requirements
- Services are easy to install
- Mineral wool can easily be installed to upgrade sound insulation
- Easy to cut to length using tin snips
- Frames easily fit together
- Door frames simply formed
- Sight line in studs for lining up with plasterboard
- Stud and track formed from pre-galvanised mild steel to BS EN 10346:2015

IDEAL FOR:

- DOMESTIC
- RESIDENTIAL
- HEALTHCARE
- EDUCATION

Commercial use: see sytem performance tables on page 25 to find your Compliant **TRADELINE** value engineered solution.

METAL

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TRADELINE
Acoustic Stud page 175

METAL ACCESSORIES

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Partition Brace page 176

FIXINGS

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FINISHINGS

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Paper Joint Tape page 187

TRADELINE
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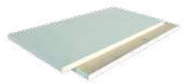
TRADELINE
Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187



Plasterboard

Insulation

SYSTEM PERFORMANCE TABLES

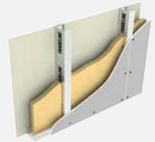
TRADELINE ACOUSTIC C STUD PARTITIONS

BRITISH GYPSUM GYPROC PLASTERBOARD

Detail A

One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B

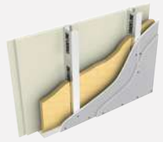


One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C

Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

70mm Acoustic TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

AS70mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 12.5mm SoundBloc	MD	3.6	97	30	42	47		AS70-B-153	AS70-B-153(25)	
1 x 15mm SoundBloc	HD	3.8	102	30	42	47	50	AS70-B-154	AS70-B-154(25)	AS70-B-154(50)
1 x 15mm SoundBloc F	HD	3.8	102	60	42	47	50	AS70-B-154F	AS70-B-154F(25)	AS70-B-154F(50)
1 x 15mm DuraLine	SD	3.8	102	60		48	50		AS70-B-163(25)	AS70-B-163(50)
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 12.5mm SoundBloc	SD	4.6	122	60		58(-3;-8)			AS70-B-159(25)	
2 x 15mm SoundBloc*	SD	4.9	132	90	53	56(-3;-7)	57(-2;-6)	AS70-B-160	AS70-B-160(25)	AS70-B-160(50)
2 x 12.5mm FireLine	SD	4.6	122	120		51			AS70-B-161(25)	
1 x 12.5mm SoundBloc (Inner) 1 x 15mm DuraLine (Outer)	SD	4.6	127	60	53	60(-3;-8)		AS70-B-165	AS70-B-165(25)	

70mm Acoustic TRADELINE C Stud spaced at 600mm centres – Siniat GTEC Plasterboard

AS70mm TRADELINE C Stud Siniat GTEC Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm Megadeco	SD	3.8	102	60		47	48		AS70-S-163(25)	AS70-S-163(50)
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 15mm dB Board	SD	4.9	132	90			56 (-2;-4)			AS70-S-160(50)
1 x 15mm dB Board (Inner) 1 x 15mm Megadeco (Outer)	SD	4.9	132	90		56 (-2;-7)			AS70-S-166SR(25)	

70mm Acoustic TRADELINE C Stud spaced at 600mm centres – Knauf Plasterboard

AS70mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm Impact Panel	SD	3.8	102	60	40	43	46	AS70-K-163	AS70-K-163(25)	AS70-K-163(50)
1 x 15mm Soundshield plus	SD	3.8	102	60	42	47	48	AS70-K-154	AS70-K-154(25)	AS70-K-154(50)
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 15mm Soundshield plus	SD	4.9	132	120			57(-2;-5)			AS70-K-160(50)

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

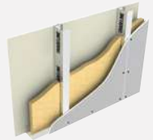
*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-2 x 15mm SoundBloc F - 120 Minutes

TRADELINE ACOUSTIC C STUD PARTITIONS

Detail A

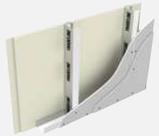
One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail B



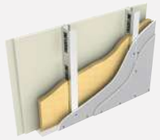
One layer of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

Detail C



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud

Detail D



Two layers of plasterboard (as table below) both sides of **TRADELINE** C Stud Insulation (as identified in the table)

92mm Acoustic TRADELINE C Stud spaced at 600mm centres – British Gypsum Gyproc Plasterboard

AS92mm TRADELINE C Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm SoundBloc	HD	4.4	124	30			54			AS92-B-154(50)
1 x 15mm SoundBloc F	HD	4.4	124	60			54			AS92-B-154F(50)
1 x 15mm DuraLine	SD	4.4	124	60			53			AS92-B-163(50)
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 15mm SoundBloc*	SD	5.9	154	90			58(-3;-5)			AS92-B-160(50)

92mm Acoustic TRADELINE C Stud spaced at 600mm centres – Siniat GTEC Plasterboard

AS92mm TRADELINE C Stud Siniat GTEC Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm Megadeco	SD	4.4	124	60			49 50*			AS92-S-163(50) AS92-S-163(100)*

*100mm APR utilised in this configuration

92mm Acoustic TRADELINE C Stud spaced at 600mm centres – Knauf Plasterboard

AS92mm TRADELINE C Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					No Infill	25mm APR	50mm APR	No Infill	25mm APR	50mm APR
Single Layer Configurations					**Detail A**		**Detail B**			
1 x 15mm Soundshield Plus	SD	4.4	124	60			52*			AS92-K-154(100)*
Double Layer Configurations					**Detail C**		**Detail D**			
2 x 15mm Soundshield Plus	SD	5.9	154	120		55(-3;-6)	57(-2;-6)		AS92-K-160(25)	AS92-K-160(50)

*100mm APR utilised in this configuration

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

TRADELINE ACOUSTIC C STUD PARTITIONS

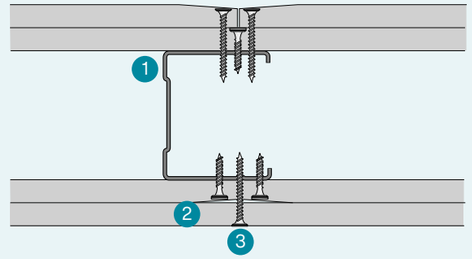
TRADELINE ACOUSTIC C STUD – Double Layer – Staggered Joint Detail

The following Standard Partition Details are common with Acoustic Stud

- Wall Start Detail
- Corner Detail
- Deflection Head Details
- Horizontal Plasterboard Joint Details

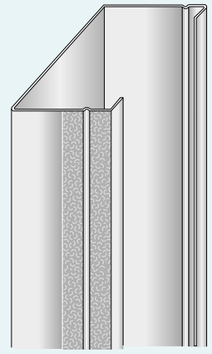
Please reference relevant drawings for correct details.
Please note T Junction Detail is Acoustic Stud specific.
Ensure plasterboard edges are aligned to the offset sightline.

1. **TRADELINE** Acoustic C Stud
2. Plasterboard as specified
3. **TRADELINE** Drywall Screw



PLAN VIEW

FIX ONLY WITHIN KNURLED AREA OF STUD

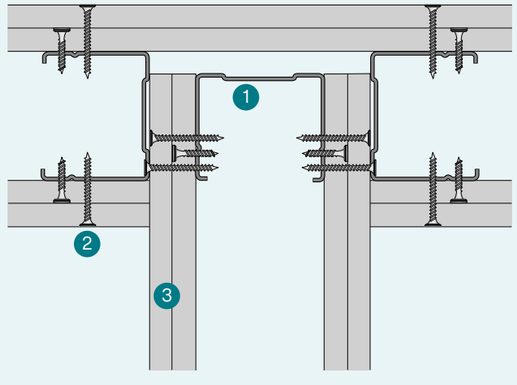


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE ACOUSTIC C STUD – Double Layer – T Junction Detail

T Junction Detail is Acoustic Stud specific

1. **TRADELINE** Acoustic C Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

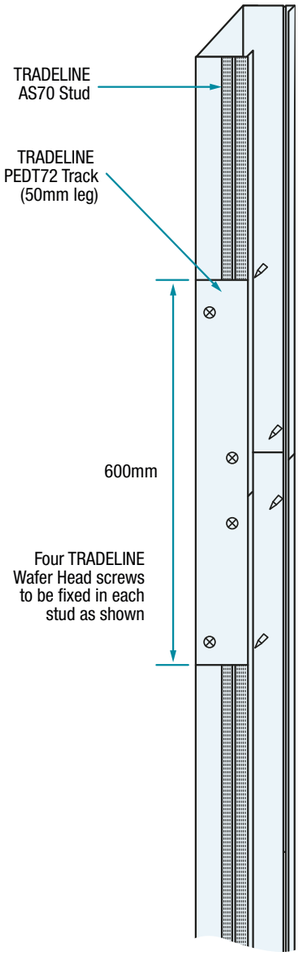
PLAN VIEW

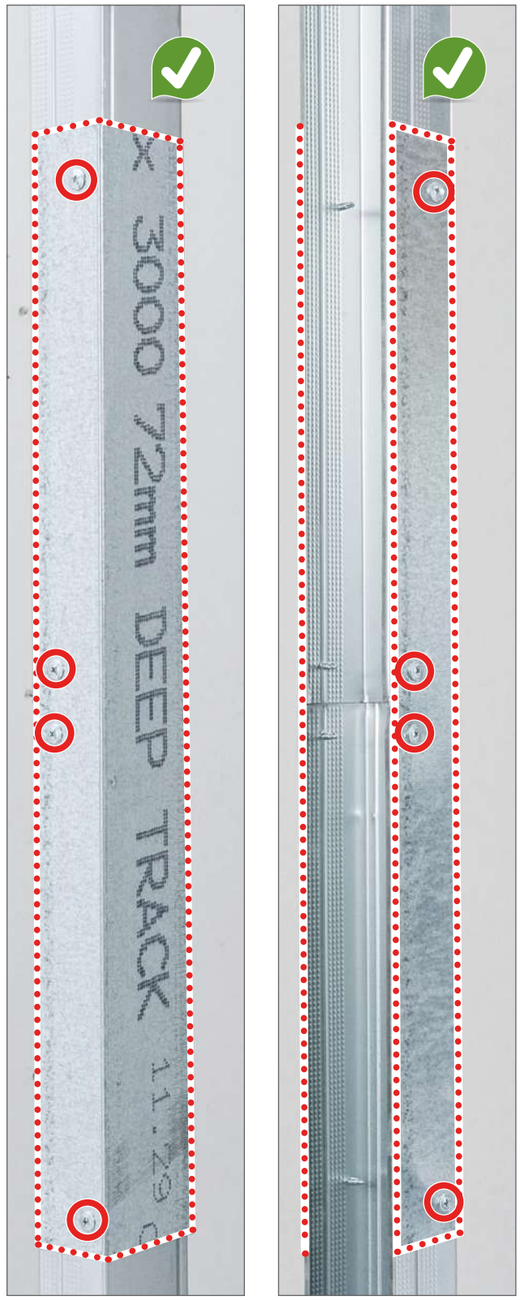
TRADELINE PARTITIONING SYSTEMS INSTALLATION CHECK LIST

ACOUSTIC C STUD SPLICING

To join lengths of **TRADELINE** Acoustic Stud together, use a 600mm length of **TRADELINE** 50mm Leg Deep Track, to cloak the two separate sections. (Shown in drawing below)

As the fixing line is off-centre unlike a standard **TRADELINE** C stud, boxing the studs together would create an uneven fixing line which could potentially have a negative impact on acoustics.



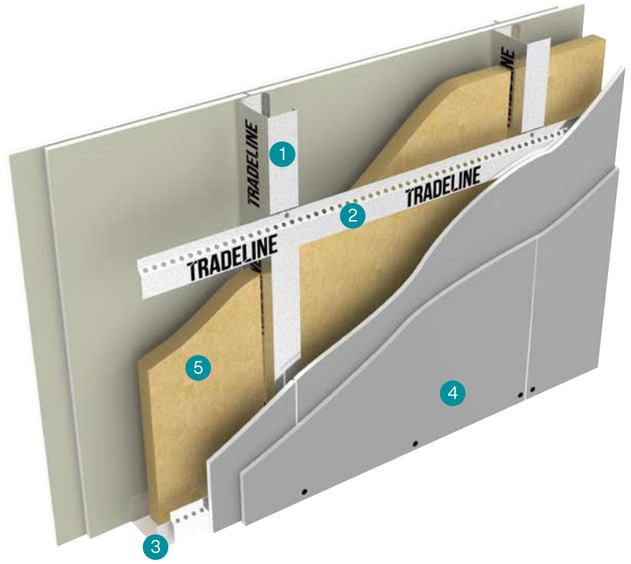


ENSURE ACOUSTIC STUDS HAVE BEEN SPLICED CORRECTLY

TRADELINE RESILIENT BAR PARTITIONS

TRADELINE Resilient Bar systems are lightweight, non load-bearing, friction fit systems. They can be used within all sectors. Due to the inclusion of **TRADELINE** RB565 Resilient Bars to one side of partition, this creates a higher level of separation between the C stud and plasterboard lining thereby achieving superior levels of sound insulation performance.

1. **TRADELINE** C Stud fixed at max. 600mm ctrs
2. **TRADELINE** RB565 Resilient Bar fixed at max. 600mm vertical centres
3. **TRADELINE** Track fixed at max. 600mm ctrs
4. Plasterboard as specified
5. Insulation as specified



TRADELINE RESILIENT BAR PARTITIONS

TRADELINE Resilient Bar partitions are non load bearing that achieve high levels of sound insulation.

Designed to give the potential to satisfy acoustic requirements for Part E of the Building regulations. Due to the high reliance on workmanship we only recommend when requirement is 43 DnT, w + ctr i.e. material change of use, student accommodation, hotels etc.

Sound performance up to 61 RwdB, 90 minutes fire and Severe Duty see system performance tables on pages 72 onwards.

FIXING TRADELINE RESILIENT BAR

Where the **TRADELINE** Resilient Bar is to be fixed to timber or metal studs, the following centres apply:

- Double layer boarding, fix Resilient Bar at 600mm centres

Fix the initial Resilient Bar 50mm down from the ceiling and the last bar 50mm from the floor. Screw fix the Resilient Bars to the Studs using 25mm **TRADELINE** Wafer Head Screws. Screw fix the plasterboard to the Resilient Bar only, ensuring the fixings do not touch the vertical framework.

Vertical noggins of resilient bar must be fixed vertically at room ends, corners and door frames to provide 300mm fixing centres.

All sound insulation data is based on laboratory evaluation of the building element in isolation and cannot reproduce your installed local conditions. The actual test carried out are used to offer an order of magnitude comparison for the performance of the various systems. Sound insulation on-site is a function of the partition chosen and the associated structures in which it is installed.

METAL

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TRADELINE
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TRADELINE
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TRADELINE Acoustic
Intumescent Sealant
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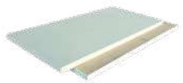


Plasterboard

Insulation

SYSTEM PERFORMANCE TABLES
TRADELINE RESILIENT BAR SYSTEM

70mm **TRADELINE** Stud with RB565
TRADELINE Resilient Bar one side only
Two layers of plasterboard (as table below)
both sides with 50mm APR in the void

70mm TRADELINE C Stud spaced at 600mm centres with Resilient Bar one side only – British Gypsum Gyproc Plasterboard

70mm TRADELINE C Stud + RB565 (one side only) British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB) 50mm APR	Data Sheet Reference 50mm APR
Double Layer Configurations						
2 x 12.5mm SoundBloc	SD	4	138	60	59(-2;-7)	RB70-B-59(50)
2 x 15mm SoundBloc*	SD	4.2	147	90	61(-3;-8)	RB70-B-60(50)
1 x 15mm SoundBloc (Inner) 1 x 15mm DuraLine (Outer)	SD	4.2	147	90	60(-3;-10)	RB70-B-66SR(50)

70mm TRADELINE C Stud spaced at 600mm centres with Resilient Bar one side only - Siniat GTEC Plasterboard

70mm TRADELINE C Stud + RB565 (one side only) Siniat GTEC Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB) 50mm APR	Data Sheet Reference 50mm APR
Double Layer Configurations						
2 x 15mm dB Board	SD	4.2	137	90	61(-2;-7)	RB70-S-60(50)
2 x 15mm Fire Board	SD	4.2	147	120	62(-3;-9)	RB70-S-62(50)

70mm TRADELINE C Stud spaced at 600mm centres with Resilient Bar one side only - Knauf Plasterboard

70mm TRADELINE C Stud + RB565 (one side only) Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB) 50mm APR	Data Sheet Reference 50mm APR
Double Layer Configurations						
2 x 12.5mm Soundshield Plus	SD	4	137	60	58(-2;-7)	RB70-K-59(50)
2 x 15mm Soundshield Plus	SD	4.2	147	120	61(-2;-7)	RB70-K-60(50)

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

TRADELINE RESILIENT BAR SYSTEM

92mm **TRADELINE** Stud with RB565
TRADELINE Resilient Bar one side only
Two layers of plasterboard (as table below)
both sides with 50mm APR in the void

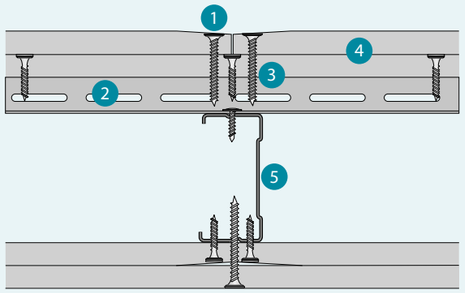
92mm TRADELINE C Stud spaced at 600mm centres with Resilient Bar one side only – British Gypsum Gyproc Plasterboard

92mm TRADELINE C Stud + RB565 (one side only) British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB) 50mm APR	Data Sheet Reference 50mm APR
Double Layer Configurations						
2 x 15mm SoundBloc	SD	5	170	90	63(-3;-7)	RB92-B-60(50)

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR PARTITION – Double Layer – Staggered Joint Detail

1. **TRADELINE** Drywall Screw
2. **TRADELINE** Resilient Bar fixed at 600mm Ctrs. To each C Stud with **TRADELINE** Wafer Head Drywall Screws
3. Ensure screws do not penetrate through resilient bar into stud
4. Plasterboard as specified
5. **TRADELINE** C Stud



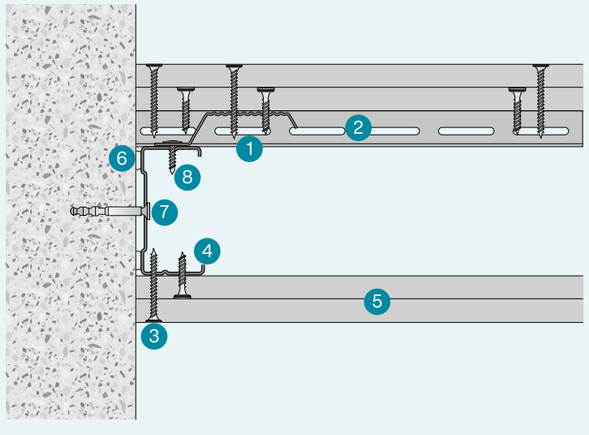
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE RESILIENT BAR PARTITION – Double Layer – Wall Abutment Detail

1. Ensure screws do not penetrate through resilient bar into stud
2. **TRADELINE** Resilient Bar fixed at 600mm Ctrs to each C Stud with wafer head drywall screws

   Noggins of RB565 Resilient Bar must be fixed vertically at room ends, corners and door frames to provide 300mm fixing centres
3. **TRADELINE** Drywall Screw
4. **TRADELINE** C Stud
5. Plasterboard as specified
6. **TRADELINE** Acoustic Intumescent Sealant
7. Suitable Fixings at Max 600mm Centres
8. **TRADELINE** Wafer Head Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

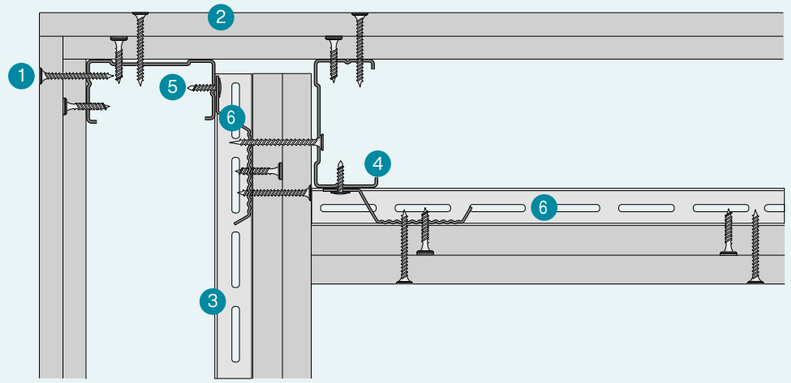
PLAN VIEW

HOW TO BUILD | TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR PARTITION – Double Layer – Corner Detail

1. **TRADELINE** Drywall Screw
2. Plasterboard as specified
3. **TRADELINE** RB565 Resilient Bar fixed horizontally to the studs at 600mm ctrs. Ensure screws do not penetrate into stud
4. **TRADELINE** Stud
5. **TRADELINE** Wafer Head Drywall Screw
6. **TRADELINE** RB565 Resilient Bar fixed vertically in-between the horizontal resilient bar



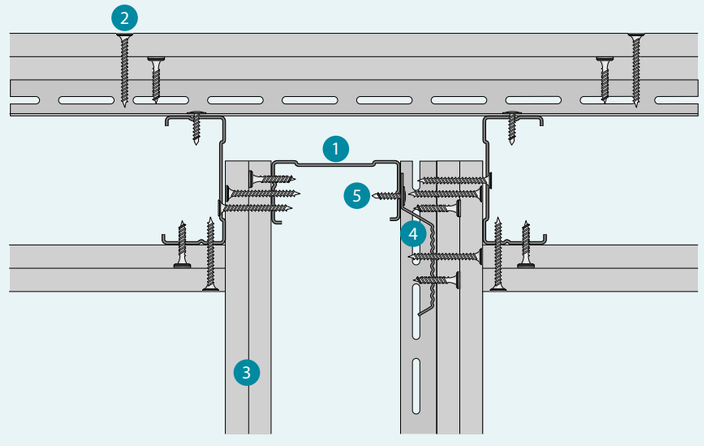
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE RESILIENT BAR PARTITION – Double Layer – T Junction Detail

1. **TRADELINE** C Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified
4. **TRADELINE** Resilient Bar fixed at 600mm Ctrs to each C Stud with **TRADELINE** Wafer Head Drywall Screws

   Noggins of RB565 Resilient Bar must be fixed vertically at room ends, corners and door frames to provide 300mm fixing centres
5. **TRADELINE** Wafer Head Drywall Screw



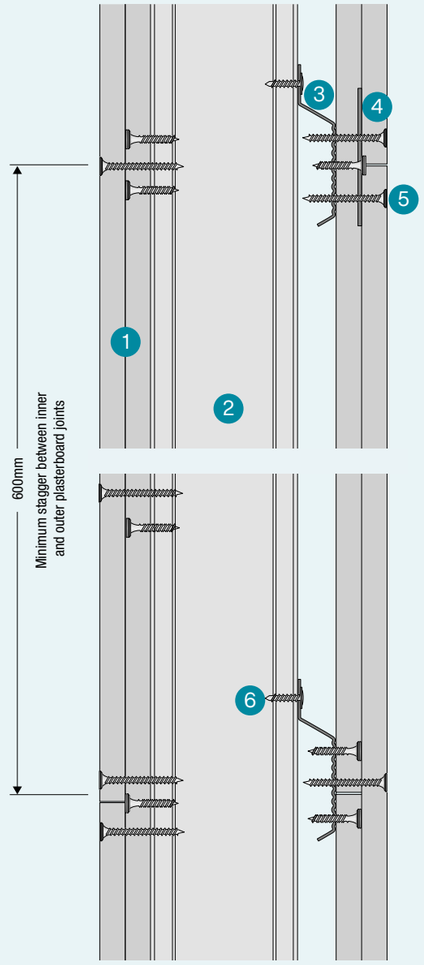
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR PARTITION
– Double Layer – Horizontal Plasterboard Joint Detail

1. Plasterboard as specified
2. **TRADELINE** C Stud
3. **TRADELINE** RB565 Resilient Bar
   Ensure screws do not penetrate into stud
4. **TRADELINE** FS24 (Flat Strap) behind outer plasterboard joint
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Wafer Head Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

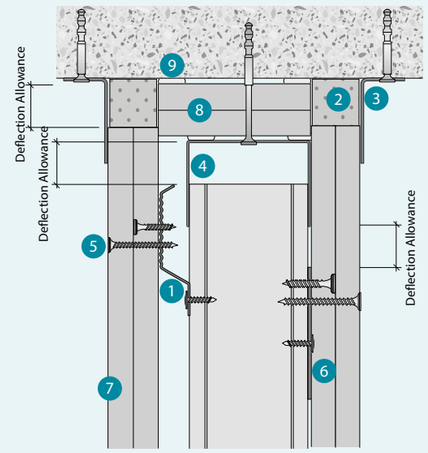
SECTION VIEW

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR PARTITION – Double Layer
– Deflection Head 60, 90 & 120* Minutes (FS24-PB24 Stud Mounted)

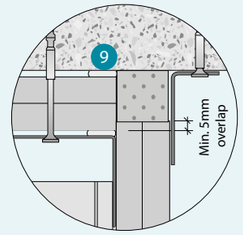
1. **TRADELINE** RB565 Resilient Bar fixed with **TRADELINE** Wafer Head Drywall Screws
2. *Rockwool Insulation only included for 90 and 120 minute fire resistance
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed at 600mm max centres
4. **TRADELINE** Top Track suitably fixed at 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap/Partition Brace screw fixed or crimped
7. Plasterboard as specified
8. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
9. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/ PARTITION BRACE TO ALLOW FOR DEFLECTION



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW



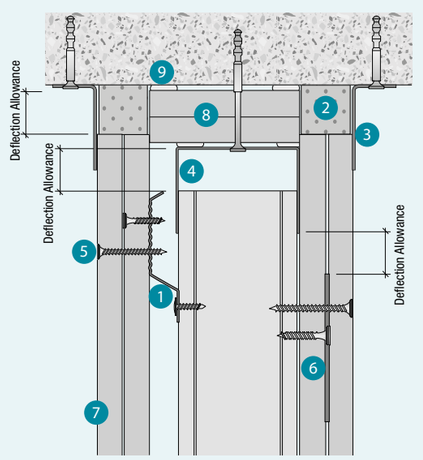
Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE RESILIENT BAR PARTITION – Double Layer
– Deflection Head 60, 90 & 120* Minutes (FS24 in between board layers)

1. **TRADELINE** RB565 Resilient Bar fixed with wafer head **TRADELINE** Wafer Head Drywall Screws
2. *Rockwool Insulation only included for 90 and 120 minute fire resistance
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed at 600mm max centres
4. **TRADELINE** Top Track suitably fixed at 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap/Partition Brace screw fixed
7. Plasterboard as specified
8. Allowable specified continuous plasterboard head packers to enable a nominal 5mm plasterboard overlap
9. **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

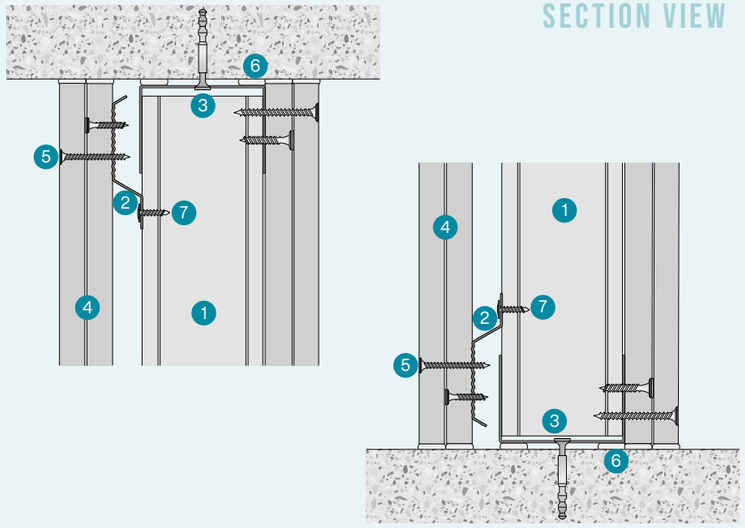
Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

SECTION VIEW

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR HEAD AND BASE DETAIL

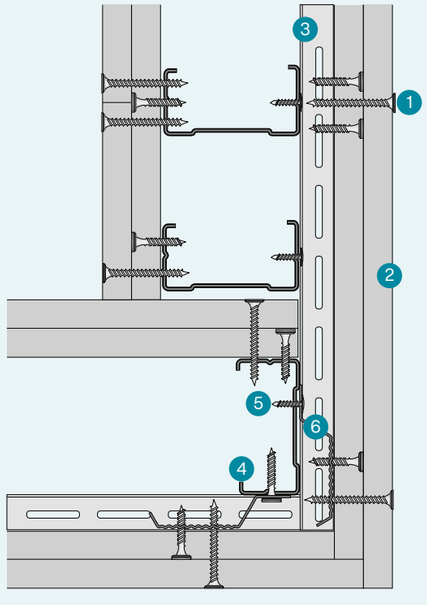
1. **TRADELINE** C Stud fixed at max. 600mm ctrs
2. **TRADELINE** RB565 Resilient Bar fixed at max. 600mm vertical centres. Ensure screws do not penetrate into stud through Resbar
3. **TRADELINE** Track fixed at max. 600mm ctrs
4. Plasterboard as specified
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Acoustic Intumescent Sealant
7. **TRADELINE** Wafer Head Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE RESILIENT BAR – Resilient Bar to External Corner

1. **TRADELINE** Drywall Screw
2. Plasterboard as specified
3. **TRADELINE** RB565 Resilient Bar fixed horizontally to the studs at 600mm ctrs. Ensure screws do not penetrate into stud
4. **TRADELINE** Stud
5. **TRADELINE** Wafer Head Drywall Screw
6. **TRADELINE** RB565 Resilient Bar fixed vertically in between the horizontal resilient bar

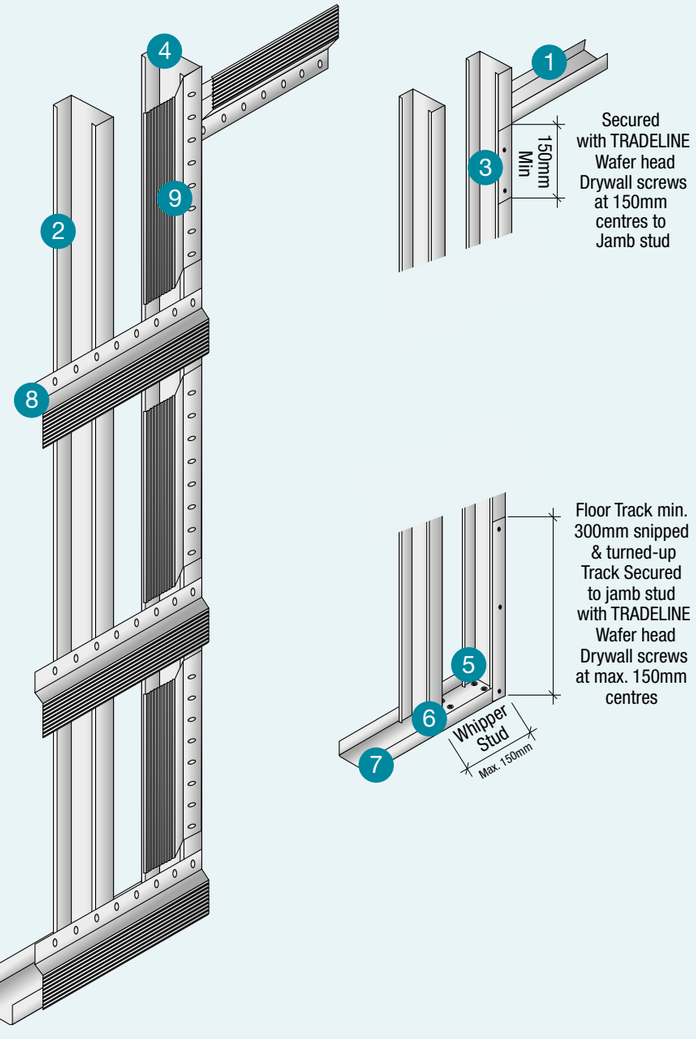


HOW TO BUILD | TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR SYSTEM

TRADELINE RESILIENT BAR PARTITION – Door Frame Detail

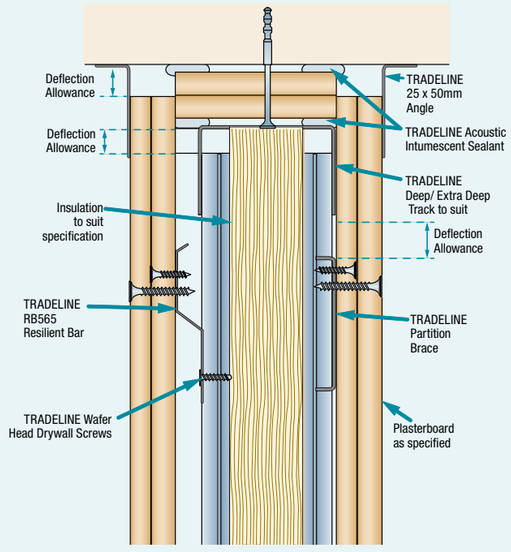
1. **TRADELINE** Track Cut and bent down Jamb Stud each side
2. **TRADELINE** C Stud as Whipper (where applicable)
3. **TRADELINE** Wafer Head Drywall Screws to secure each side
4. **TRADELINE** C Stud (or boxed where specified) with Timber insert to each side of Door Jamb (timber insert r emoved for clarity)
5. One pair of fixings at Jamb Stud base
6. One pair of fixings 100mm from end of Jamb Stud base
7. **TRADELINE** Track with 300mm leg cut and returned up on both sides of Door Jamb Stud
8. **TRADELINE** RB565 Resilient Bar fixed horizontally at 600mm centres
9. Noggins of **TRADELINE** RB565 Resilient Bar fixed vertically at door frames to provide 300mm fixing centres



TRADELINE PARTITIONING SYSTEMS INSTALLATION CHECK LIST

TRADELINE RESILIENT BAR SYSTEMS – DEFLECTION HEAD DETAILS

C STUD WITH RESILIENT BAR
DEFLECTION HEAD UP TO 60 MINS FIRE RESISTANCE



To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

Head Packers

When constructing a deflection head detail for a **TRADELINE** Resilient Bar Partition, it is essential to extend the width of the headpackers by a further 17mm. Failure to do so will compromise the acoustic and fire integrity of the partition.

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

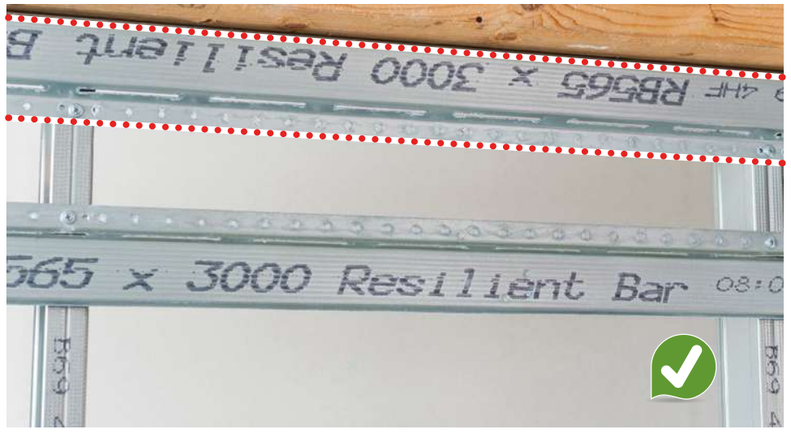
Please ensure that the facing board overlaps min. of 5mm with the Packer board

ENSURE THE PLASTERBOARD HEAD PACKER OVERHANGS THE TOP TRACK BY 17mm TO ACCOMMODATE FOR THE RESILIENT BAR SPACING

APPLICABLE FOR	
SINGLE FRAME	✓
ACOUSTIC STUD	✗
TWIN FRAME	✗
RESILIENT BAR	✓
SHAFT ENCASEMENT	✗

INVERTING THE TOP RESILIENT BAR AND INSTALLING VERTICAL NOGGINS

Top **TRADELINE** RB565 Resilient Bar needs to be inverted to ensure a closer plasterboard perimeter fix.



INSTALLING VERTICAL NOGGINS

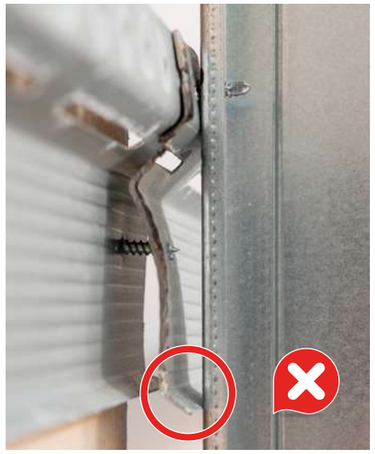
Fixed Head Detail, see page 89 for **TRADELINE** Resilient Bar Deflection Head detail.

Intermediate sections of **TRADELINE** RB565 Resilient Bar should be installed around all perimeters and door openings to allow for plasterboard perimeter fixings.

JOINING RESILIENT BARS

In instances where the length of **TRADELINE** RB565 Resilient Bar finishes in-between studs, the resilient bar must be cut back so that the end of section falls on the sight line of the studs fixing face. This allows room on the stud to attach the next resilient bar to continue the remainder of the partition. It is important the bars are butted up to one another and **NOT** overlapped.

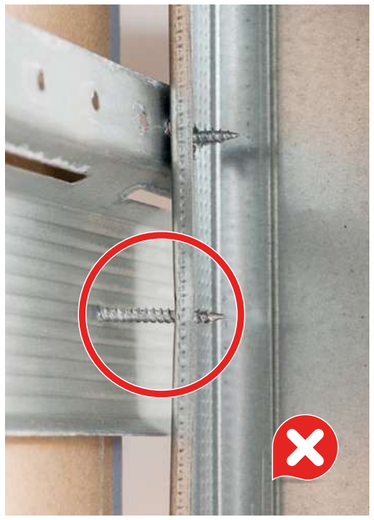
Be certain that the resilient bars are not overlapped as it runs a risk that the bar behind may get trapped which would compromise acoustic performance.



ENSURE RESILIENT BARS HAVE BEEN CORRECTLY JOINED AS SHOWN ABOVE

PLASTERBOARD FIXING ONTO RESILIENT BARS

When fixing plasterboard to the framework, it is essential that the correct length screw is selected, ensuring that the is a minimum of 10mm screw penetration through the resilient bar. Fixings that penetrate through the Resilient Bar and into the stud will compromise sound insulation performance and must be avoided



Refer to the table below for guidance on choosing the correct screw lengths for the **TRADELINE** resilient bar board configurations available.

Board Configuration	Inner Layer	Outer Layer
Double layer of 12.5mm plasterboard	25mm	38mm
Double layer of 15mm plasterboard	25mm	42mm
Inner Layer of 19mm plank and outer layer of 12.5mm plasterboard	32mm	42mm

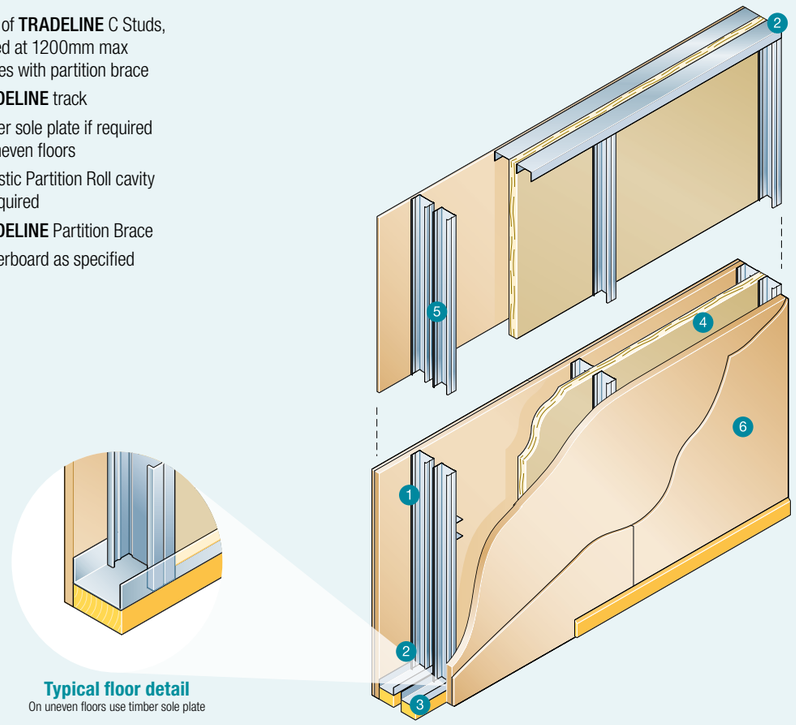
TRADELINE TWIN FRAME PARTITIONS

TRADELINE BRACED TWIN FRAME C STUD SYSTEMS

TRADELINE Braced Twin Frame C Stud systems are lightweight, non load-bearing, friction fit systems. They can be used within all sectors but primarily within residential to achieve the acoustic requirements of Approved Document E.

Due to greater separation between the TRADELINE frameworks, high levels of sound insulation can be achieved up to Rw 65 dB. Whilst also providing up to 120 minutes fire resistance.

1. Pairs of **TRADELINE** C Studs, braced at 1200mm max centres with partition brace
2. **TRADELINE** track
3. Timber sole plate if required on uneven floors
4. Acoustic Partition Roll cavity as required
5. **TRADELINE** Partition Brace
6. Plasterboard as specified



Typical floor detail
On uneven floors use timber sole plate

METAL

TRADELINE
Track page 174

TRADELINE
C Stud page 175

METAL ACCESSORIES

TRADELINE
Partition Brace page 176

FIXINGS

TRADELINE
Drywall Screws page 184

TRADELINE
Waferhead Screws page 184

TIP

TRADELINE Access Panels Solutions are available to allow for easy access to services on page 188

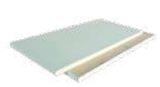
FINISHINGS

TRADELINE
Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

TRADELINE Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187



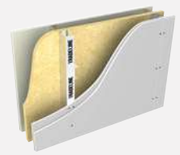
Plasterboard

Insulation

SYSTEM PERFORMANCE TABLES

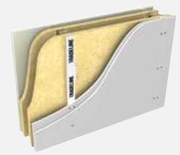
TRADELINE TWIN FRAME C STUD

Detail A



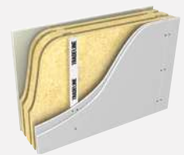
Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
1 x Insulation (as identified in the table)

Detail B



Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation (as identified in the table)

Detail C

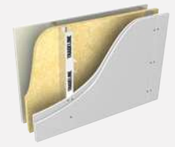


Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation + full fill (as identified in the table)

Twin 50mm TRADELINE C Stud spaced at 600mm centres & Braced @ 1200mm vertical centres – British Gypsum Gyproc Plasterboard

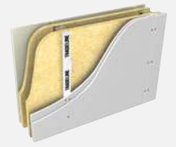
50mm TRADELINE C Stud Braced @ 1200mm British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					1 x 50mm APR	2 x 50mm APR	2 x 50mm 1 x 100mm APR	1 x 50mm APR	2 x 50mm APR	2 x 50mm 100mm APR
Double Layer Configurations					**Detail A**	**Detail B**	**Detail C**			
2 x 12.5mm SoundBloc	SD	6.2	200	60	62(-3;-8)			TWC50-B-59 (50)(200)		
2 x 12.5mm SoundBloc	SD	6.2	240	60		63(-3;-9)			TWC50-B-59 (2x50)(240)	
2 x 12.5mm SoundBloc	SD	6.2	250	60			65(-2;-8)			TWC50-B-59 (2x50+100)(250)
2 x 15mm SoundBloc*	SD	6.2	200	90	62(-3;-9)			TWC50-B-60 (50)(200)		
2 x 15mm SoundBloc*	SD	6.2	200	90		65(-2;-8)			TWC50-B-60 (2x50)(200)	
2 x 15mm FireLine	SD	6.2	200	120		62(-3;-8)			TWC50-B-62 (2x50)(200)	

Detail A



Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
1 x Insulation (as identified in the table)

Detail B



Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation (as identified in the table)

Twin 50mm TRADELINE C Stud spaced at 600mm centres & Braced @ 1200mm vertical centres – Siniat GTEC Plasterboard

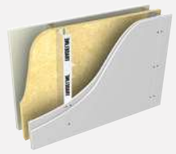
50mm TRADELINE C Stud Braced @ 1200mm Siniat GTEC Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)		Data Sheet Reference	
					1 x 50mm APR	2 x 50mm APR	1 x 50mm APR	2 x 50mm APR
Double Layer Configurations					**Detail A**			
2 x 15mm dB Board	SD	6.2	200	90	62(-2;-7)		TWC50-S-60(50)(200)	
2 x 15mm dB Board	SD	6.2	210	90		60(-3;-9)		TWC50-S-60(2x50)(210)
2 x 15mm dB Board	SD	6.2	250	90		60(-2;-8)		TWC50-S-60(2x50)(250)
2 x 15mm Fire Board	SD	6.2	200	120	60(-2;-8)		TWC50-S-62(50)(200)	
2 x 15mm Fire Board	SD	6.2	200	120		64(-3;-9)		TWC50-S-62(2x50)(200)
2 x 15mm Moisture Resistant Fire Board	SD	6.2	200	120		63(-4;-10)		TWC50-S-62MR(2x50)(200)

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

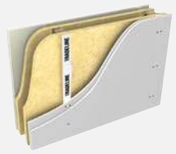
TWIN FRAME C STUD

Detail A



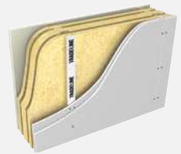
Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
1 x Insulation (as identified in the table)

Detail B



Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation (as identified in the table)

Detail C



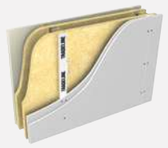
Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation + full fill (as identified in the table)

Twin 50mm TRADELINE C Stud spaced at 600mm centres & Braced @ 1200mm vertical centres – Knauf Plasterboard

50mm TRADELINE C Stud Braced @ 1200mm Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					1 x 50mm APR	2 x 50mm APR	2 x 50mm 1 x 100mm APR	1 x 50mm APR	2 x 50mm APR	2 x 50mm 100mm APR
Double Layer Configurations					**Detail A**	**Detail B**	**Detail C**			
2 x 12.5mm Soundshield Plus	SD	6.2	200	60	63(-2;-7)			TWC50-K-59 (50)(200)		
2 x 15mm Soundshield Plus	SD	6.2	200	120	62(-2;-7)			TWC50-K-60 (50)(200)		
2 x 15mm Soundshield Plus	SD	6.2	200	120		63(-3;-8)			TWC50-K-60 (2x50)(200)	
2 x 15mm Fire Panel	SD	6.2	200	120		64(-2;-8)			TWC50-K-62 (2x50)(200)	

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

Detail A



Two layers of plasterboard (as table below) both outer sides of **TRADELINE** C Stud
2 x Insulation (as identified in the table)

Twin PSHD70 TRADELINE C Stud spaced at 600mm centres Twin Independent Framework (no bracing required)

70mm TRADELINE Heavy Duty C Stud	Partition Grade Duty Rating BS 5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)	Data Sheet Reference
					2 x 50mm APR	2 x 50mm APR
Double Layer Configurations				**Detail A**		
2 x 15mm British Gypsum Gyproc SoundBloc*	SD	3	220	90	68 (3:-8)	TWHD70-B-60(2x50)(220)
2 x 15mm Knauf Soundshield Plus	SD	3	220	120	68 (-3:-9)#	TWHD70-K-60(2x50)(220)
2 x 15mm Siniat GTEC dB Board	SD	3	220	90	68 (-3:-10)#	TWHD70-S-60(2x50)(220)

#Insul Acoustic Software Predicated Result

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS 476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE TWIN FRAME C STUD

High Performance Walls

Lightweight, quick to construct, cost-effective, compact and able to achieve high levels of fire resistance and acoustic insulation. Our non-load bearing High Performance Walls, constructed from plasterboard facings on metal studs, offer considerable advantages over traditional heavy masonry construction.

TRADELINE have a huge number of variations within their twin frame walls.

Braced C studs primarily targeted to achieve 45 DnT,w + ctr

TRADELINE have tested market leading number of wall build-up combinations to allow you to get:

- Potentially thinner construction
- Utilising both 12.5mm and 15mm variations of sound resistant board and fire resistant boards dependent on fire requirements
- Fully insulation filled cavity for greater thermal efficacy's

Maximum Height - Twin C Stud Frame Partitions

Twin Stud Partition – C Stud Braced Frame @ 600ctrs

Wall Width (mm)	Twin Frame Stud Width (mm)	Board Layers	Board Thickness (mm)	Max. Partition Height (m)
Up to 300	50	2	15 or 12.5	6.2
Up to 300	60	2	15 or 12.5	6.2
300	70	2	15 or 12.5	7
300	92	2	15 or 12.5	8
550	146	2	15 or 12.5	10

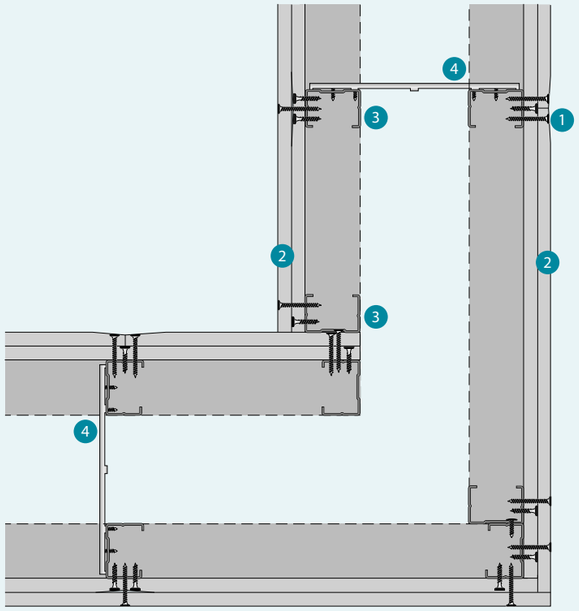
Based on Twin Frame Braced @ 1200mm vertical centres

Maximum heights are calculated based on a limiting deflection of L/240 at 200 Pascals. Fire Rated to BS476 Part 22:1987 only

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD – Double Layer – Corner Detail

1. **TRADELINE** Drywall Screws
2. Plasterboard as specified
3. **TRADELINE** Twin Frame C Stud
4. **TRADELINE** PB24 Partition Brace fixed @ 1200mm max. vertical ctrs with **TRADELINE** Wafer Head Drywall Screws

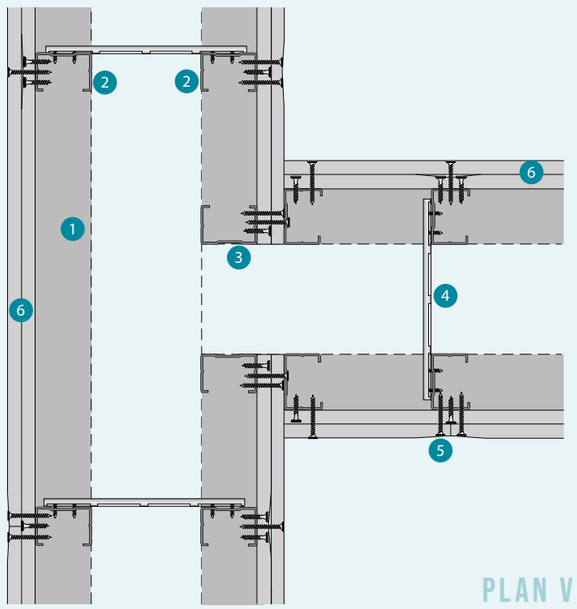


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME C STUD – Double Layer – Acoustic T Junction

1. **TRADELINE** Track
2. **TRADELINE** C Studs
3. **TRADELINE** C Studs used at corner detail
4. **TRADELINE** PB24 Partition Brace fixed @ 1200mm Max Vertical Ctrs with Wafer Head Drywall Screws
5. **TRADELINE** Drywall Screw
6. Plasterboard as specified



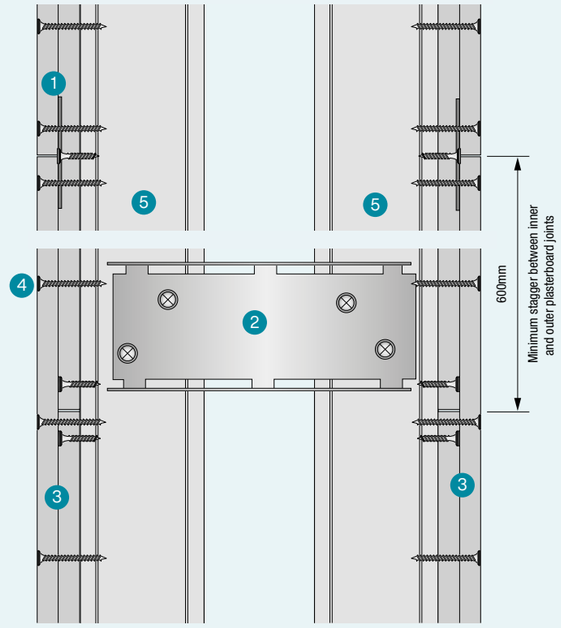
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD – Double Layer – Bracing & Horizontal Plasterboard Joint Detail

1. **TRADELINE** FS24 (Flat Strap) behind outer horizontal plasterboard joint
2. **TRADELINE** PB24 Partition Brace fixed @ 1200mm Max Vertical Ctrs with **TRADELINE** Wafer Head Drywall Screws
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. **TRADELINE** C Stud



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

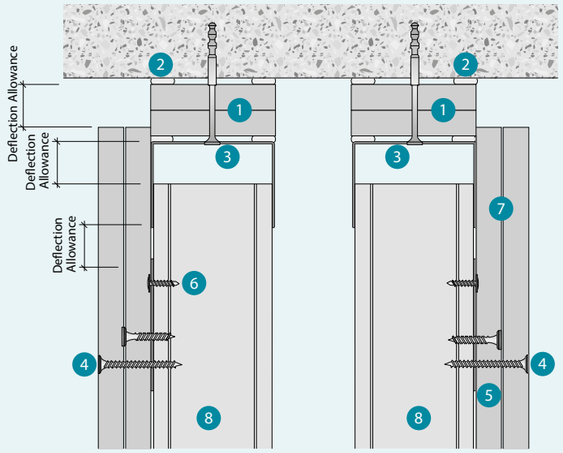
SECTION VIEW

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD – Double Layer – Deflection Head Detail 60 Minutes (FS24-PB24 Stud Mounted)

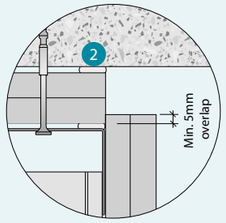
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Fixed Strap/ Partition Brace Screw Fixed or Crimped
6. **TRADELINE** Wafer Head Drywall Screws
7. Plasterboard as specified
8. **TRADELINE** C Stud

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW



Deflection Head - Head Track and Packer board guidance

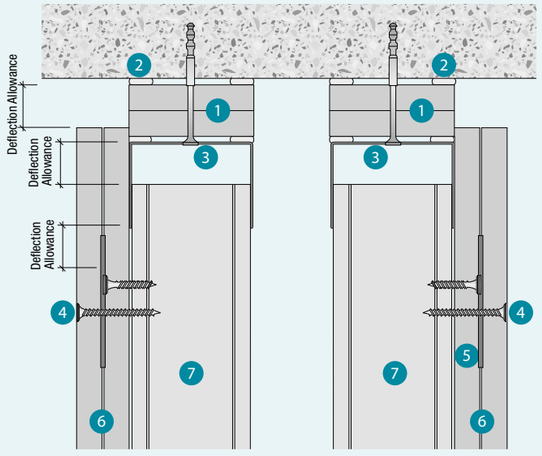
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME C STUD – Double Layer – Deflection Head Detail 60 Minutes (FS24 in between board layers)

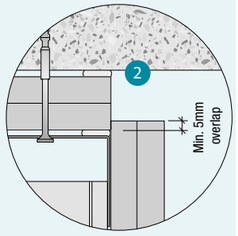
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap
6. Plasterboard as specified
7. **TRADELINE** C Stud

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW



Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

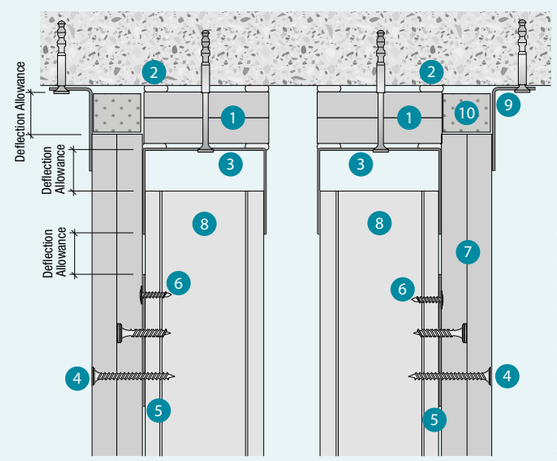
Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD – Double Layer – Deflection Head Detail 90 & 120 Minutes (Cloaking Angle FS24-PB24 Stud Mounted)

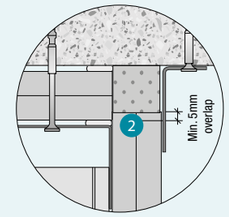
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap
6. **TRADELINE** Wafer Head Drywall Screws
7. Plasterboard as specified
8. **TRADELINE** C Stud
9. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
10. Rockwool Insulation

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant

SECTION VIEW



Deflection Head - Head Track and Packer board guidance

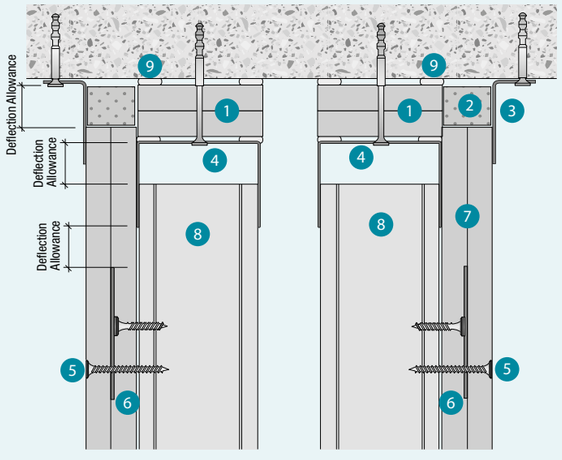
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME C STUD – Double Layer – Deflection Head Detail 90 & 120 Minute (Cloaking Angle & FS24 in between board layers)

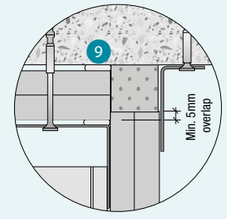
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @ 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap
7. Plasterboard as specified
8. **TRADELINE** C Stud
9. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant

SECTION VIEW



Deflection Head - Head Track and Packer board guidance

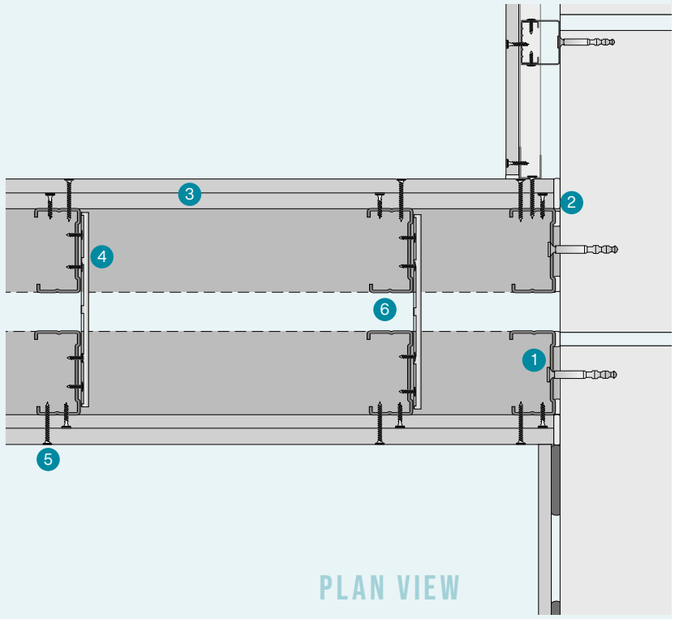
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD - Junction with Masonry

1. **TRADELINE** C Stud suitably fixed to substrate at max. 600mm centres
2. **TRADELINE** Acoustic Intumescent Sealant
3. Plasterboard as specified
4. **TRADELINE** PB24 Partition Brace fixed @ 1200mm Max Vertical Ctrs with **TRADELINE** Wafer Head Drywall Screws
5. **TRADELINE** Drywall Screw
6. **TRADELINE** C Stud



PLAN VIEW

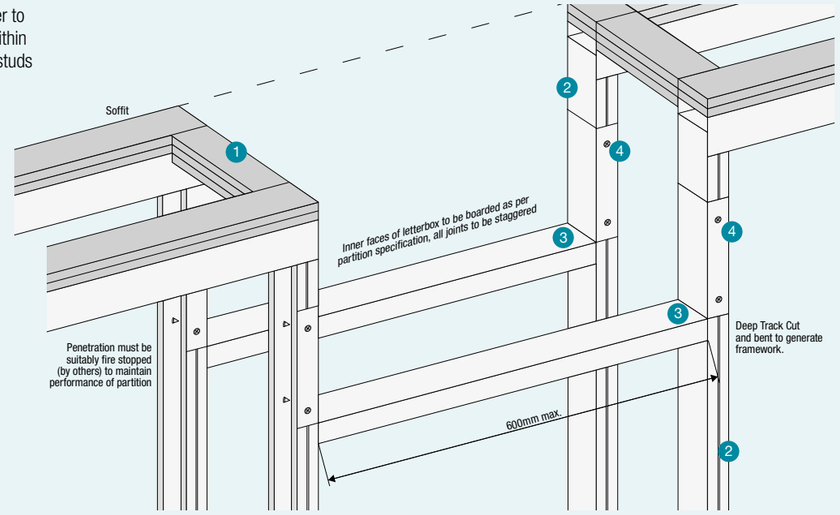
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

HOW TO BUILD | TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD - Letter box under soffit

1. Plasterboard Head Packer to suit performance filled within the cavity between twin studs
2. **TRADELINE** C Stud
3. **TRADELINE** Deep U Track snipped and bent at either ends and fixed to studs
4. **TRADELINE** Wafer Head Drywall Screw

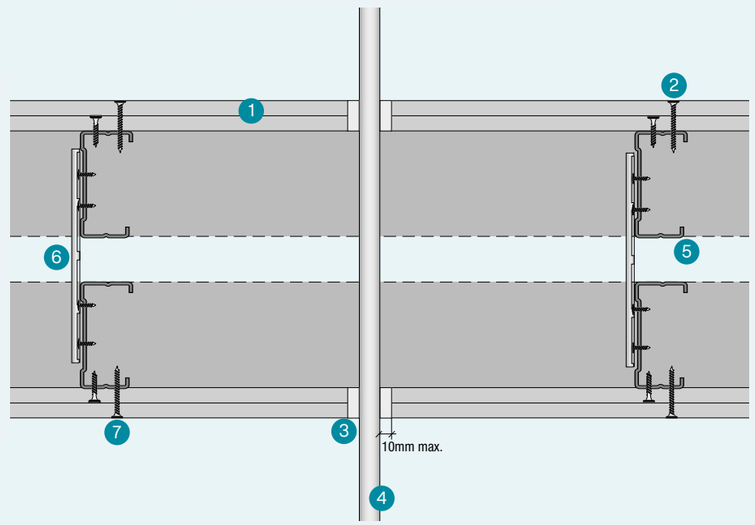


ISOMETRIC VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE TWIN FRAME C STUD - Pipe penetration up to 39mm diameter

1. Plasterboard of specified type
2. **TRADELINE** Drywall Screw
3. Suitably fire stopped by others
4. Penetrating Pipework
5. **TRADELINE** C Stud
6. **TRADELINE** PB24 Partition Brace fixed @ 1200mm Max Vertical Ctrs with **TRADELINE** Wafer Head Drywall Screws
7. **TRADELINE** Drywall Screw



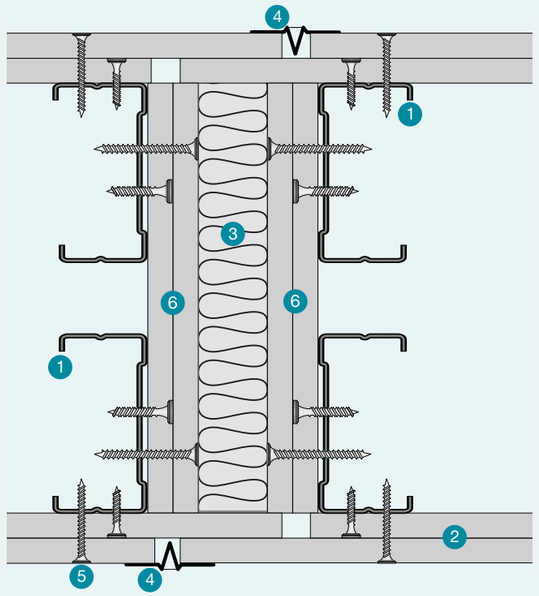
PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD – Movement Control Joint

1. **TRADELINE** C Stud
2. Plasterboard as specified
3. Suitable fire stopping insulation
4. Movement Control Joint
5. **TRADELINE** Drywall Screw
6. Plasterboard to suit performance fixed back to stud

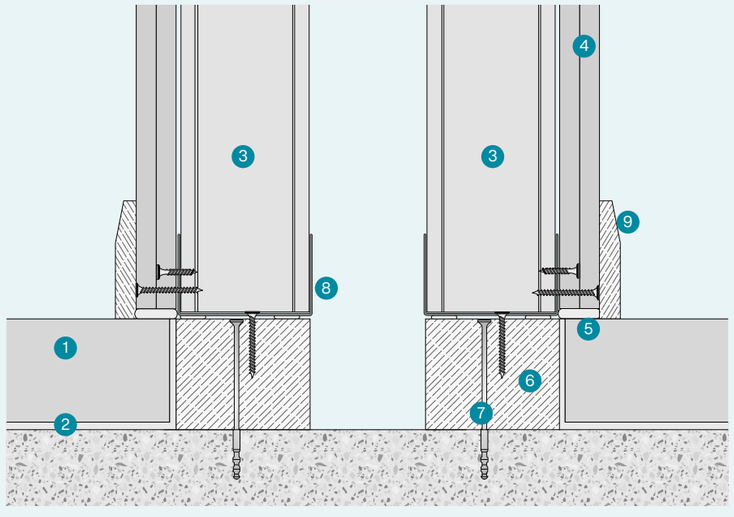


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME C STUD – Base on concrete floor with screed

1. Concrete or Floating screed
2. Resilient Membrane
3. **TRADELINE** C Stud
4. Plasterboard as specified
5. **TRADELINE** Acoustic Intumescent Sealant
6. Timber Sole Plate to suit
7. Suitable fixings
8. **TRADELINE** Track
9. Skirting Board



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

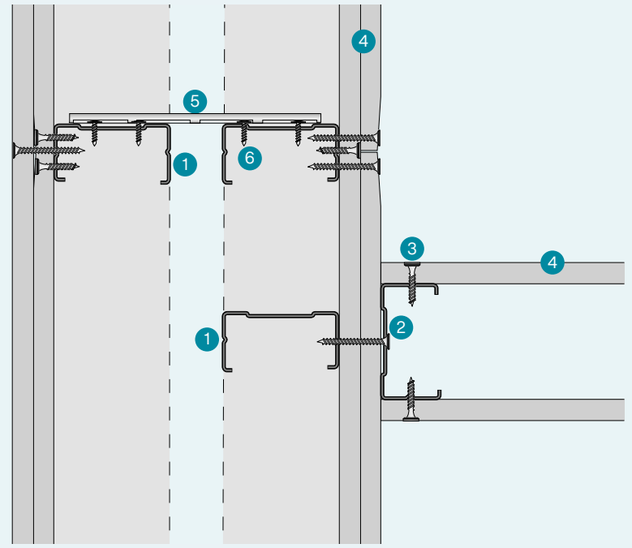
SECTION VIEW

HOW TO BUILD | TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD - Double Layer - T Junction with Standard Partition Detail

1. **TRADELINE** C Stud
2. Align C Stud to line with Partition C Stud and fix at max. 600mm ctrs
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified
5. **TRADELINE** PB24 Partition Brace fixed @ 1200mm Max Vertical Ctrs
6. **TRADELINE** Wafer Head Drywall Screws



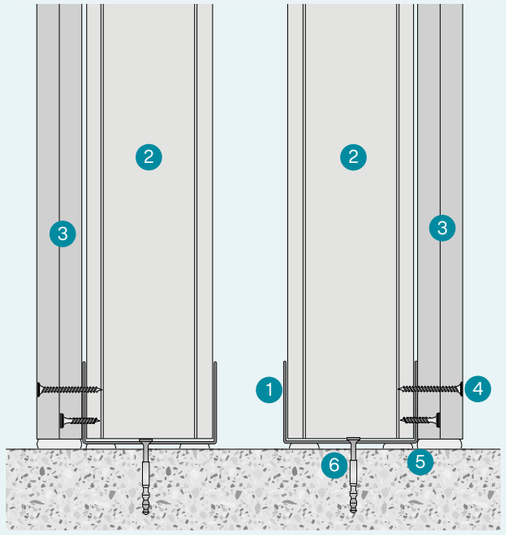
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME C STUD

TRADELINE TWIN FRAME C STUD - Standard Base detail

1. **TRADELINE** Track fixed to substrate using suitable fixing
2. **TRADELINE** C Stud
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Acoustic Intumescent Sealant
6. Use fixings to suit substrate

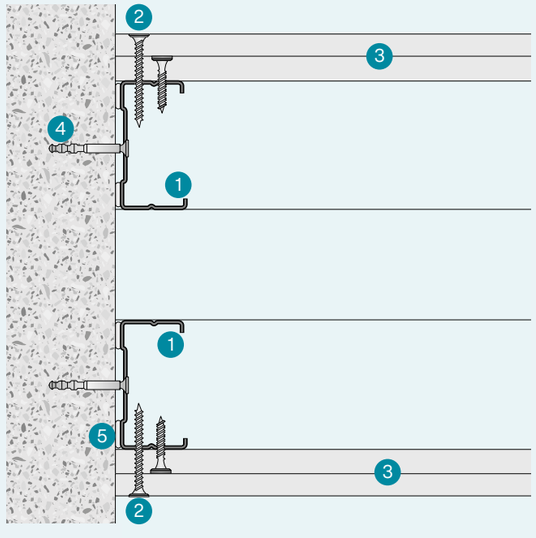


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE TWIN FRAME C STUD - Wall Abutment

1. **TRADELINE** C Stud
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified
4. Fix C Stud to the substrate at 600mm centres using suitable fixing
5. **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE PARTITIONING SYSTEMS INSTALLATION CHECK LIST

TRADELINE TWIN FRAME SOLUTIONS – TWIN C STUD BRACING

TRADELINE Braced twin frames should be braced at a maximum of 1200mm centres using **TRADELINE** PB24 Partition Brace fixed into each stud using two **TRADELINE** Wafer Head Screws.

Correctly installed using 4 fixings.

Incorrectly installed using only 2 fixings.

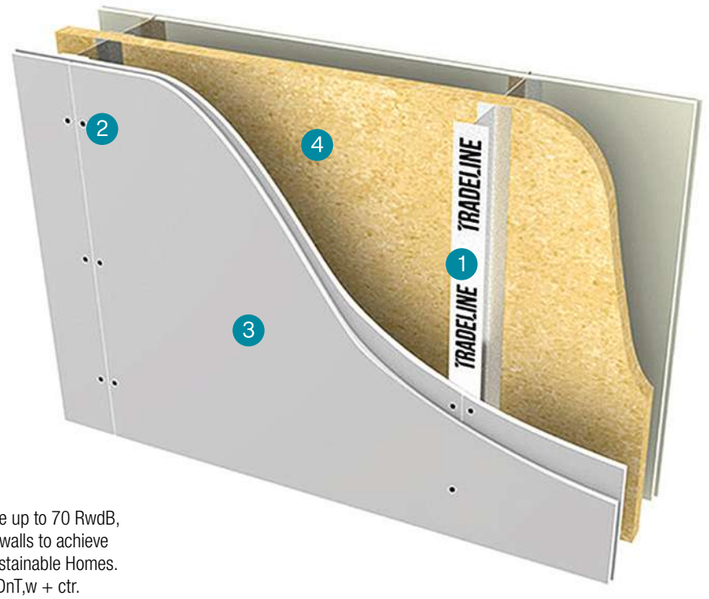
ENSURE C STUDS HAVE BEEN BRACED CORRECTLY

TRADELINE TWIN FRAME PARTITIONS

TRADELINE UNBRACED TWIN I STUD SYSTEMS

TRADELINE Unbraced Twin Frame I Stud systems are lightweight, non load-bearing, friction fit systems. They can be used within all sectors but primarily within residential to achieve the acoustic requirements of Approved Document E and enhancements of +5 or +8dB. Due to the TRADELINE frameworks being totally isolated from each other, excellent levels of sound insulation can be achieved up to Rw 70 dB. Whilst also providing up to 120 minutes fire resistance.

1. **TRADELINE** I Stud (Unbraced) fixed at max. 600mm ctrs
2. **TRADELINE** Drywall Screw
3. Plasterboard as specified
4. **TRADELINE** Acoustic Intumescent Sealant



High Performance Walls

Unbraced I Stud twin frames have acoustic performance up to 70 RwdB, these walls are often considered when designing party walls to achieve enhanced requirements needed under The Code for Sustainable Homes. The need is often for walls to achieve on site 50 or 53 DnT,w + ctr.

All sound insulation data is based on laboratory evaluation of the building element in isolation and cannot reproduce your installed local conditions. It is important that flanking transmission is considered at design stage.

On site testing is measured using a different scale. It uses DnT,w Standardised Level Difference. Values on site are approximately 7 to 8 decibels lower than achieved in the laboratory, one of the primary reasons for this difference will be the downgrading due to flanking transmission. This highlights the need for good design and flanking details to help minimise these reductions. Deflection head details if used can also be expected to impact negatively on the decibel rating achieved on site.

Residential requirements for party walls under Building Regulations Approved document E are measured as DnTw + Ctr.

METAL

TRADELINE Track page 174

TRADELINE I Stud page 176

METAL ACCESSORIES

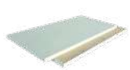
TRADELINE Partition Brace page 176

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

FINISHINGS



Plasterboard

Insulation

TRADELINE Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

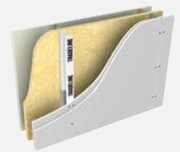
TRADELINE Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187

SYSTEM PERFORMANCE TABLE

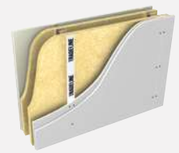
TRADELINE TWIN FRAME I STUD

Detail A



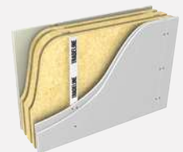
Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** I Stud (as table below)
1 x Insulation (as identified in the table)

Detail B



Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** I Stud (as table below)
2 x Insulation (as identified in the table)

Detail C



Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** C Stud (as table below)
2 x Insulation + full fill (as identified in the table)

Twin TRADELINE I Stud spaced at 600mm centres - British Gypsum Gyproc Plasterboard

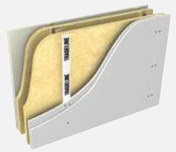
TRADELINE I Stud British Gypsum Gyproc Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					1 x 50mm APR	2 x 50mm APR	2 x 50mm 1 x 100mm APR	1 x 50mm APR	2 x 50mm APR	2 x 50mm 100mm APR
Double Layer Configurations					**Detail A**	**Detail B**	**Detail C**			
50mm TRADELINE I Stud										
2 x 12.5mm Soundbloc	SD	2.7	250	60			70(-2;-8)			TWI50-B-59(2x50+100)(250)
2 x 12.5mm Soundbloc	SD	2.7	200	60	65(-3;-10)			TWI50-B-59(50)(200)		
2 x 15mm Soundbloc*	SD	2.7	200	90	67(-4;-10)			TWI50-B-60(50)(200)		
2 x 15mm Soundbloc*	SD	2.7	200	90		70(-3;-10)			TWI50-B-60(2x50)(200)	
2 x 12.5mm Fireline	SD	2.7	200	120	63(-4;-9)	66(-3;-9)		TWI50-B-61(50)(200)	TWI50-B-61(2x50)(200)	
1 x 15mm Standard (Inner) 1 x 15mm Soundbloc (Outer)	SD	2.7	200	60		67(-3;-9)			TWI50-B-77 (2x50)(200)	
60mm TRADELINE I Stud										
2 x 12.5mm Soundbloc	SD	3.3	270	60			70(-2;-8)			TWI60-B-59(2x50+100)(270)
2 x 12.5mm Soundbloc	SD	3.3	200	60	65(-3;-10)			TWI60-B-59(50)(200)		
2 x 15mm Soundbloc*	SD	3.3	200	90	67(-4;-10)			TWI60-B-60(50)(200)		
2 x 15mm Soundbloc*	SD	3.3	200	90		70(-3;-10)			TWI60-B-60(2x50)(200)	
2 x 12.5mm Fireline	SD	3.3	200	120	63(-4;-9)	66(-3;-9)		TWI60-B-61(50)(200)	TWI60-B-61(2x50)(200)	
1 x 15mm Standard (Inner) 1 x 15mm SoundBloc (Outer)	SD	3.3	200	60		67(-3;-9)			TWI60-B-77(2x50)(200)	
70mm TRADELINE I Stud										
2 x 12.5mm Soundbloc	SD	3.9	300	60			70(-2;-8)			TWI70-B-59(2x50+100)(300)
2 x 12.5mm Soundbloc	SD	3.9	210	60	65(-3;-10)			TWI70-B-59(50)(210)		
2 x 15mm Soundbloc*	SD	3.9	210	90	67(-4;-10)			TWI70-B-60(50)(210)		
2 x 15mm Soundbloc*	SD	3.9	210	90		70(-3;-10)			TWI70-B-60(2x50)(210)	
2 x 12.5mm Fireline	SD	3.9	210	120	63(-4;-9)	66(-3;-9)		TWI70-B-61(50)(210)	TWI70-B-61(2x50)(210)	
1 x 15mm Standard (Inner) 1 x 15mm SoundBloc (Outer)	SD	3.9	210	60		67(-3;-9)			TWI70-B-77(2x50)(210)	
92mm TRADELINE I Stud										
2 x 12.5mm Soundbloc	SD	5.4	350	60			70(-2;-8)			TWI92-B-59(2x50+100)(350)
2 x 12.5mm Soundbloc	SD	5.4	260	60	65(-3;-10)			TWI92-B-59(50)(260)		
2 x 15mm Soundbloc*	SD	5.4	260	90	67(-4;-10)			TWI92-B-60(50)(260)		
2 x 15mm Soundbloc*	SD	5.4	260	90		70(-3;-10)			TWI92-B-60(2x50)(260)	
2 x 12.5mm Fireline	SD	5.4	260	120	63(-4;-9)	66(-3;-9)		TWI92-B-61(50)(260)	TWI92-B-61(2x50)(260)	
1 x 15mm Standard (Inner) 1 x 15mm SoundBloc (Outer)	SD	5.4	260	60		67(-3;-9)			TWI92-B-77(2x50)(260)	
146mm TRADELINE I Stud										
2 x 12.5mm Soundbloc	SD	7.2	450	60			70(-2;-8)			TWI146-B-59(2x50+100)(450)
2 x 12.5mm Soundbloc	SD	7.2	360	60	65(-3;-10)			TWI146-B-59(50)(360)		
2 x 15mm Soundbloc*	SD	7.2	360	90	67(-4;-10)			TWI146-B-60(50)(360)		
2 x 15mm Soundbloc*	SD	7.2	360	90		70(-3;-10)			TWI146-B-60(2x50)(360)	
2 x 12.5mm Fireline	SD	7.2	360	120	63(-4;-9)	66(-3;-9)		TWI146-B-61(50)(360)	TWI146-B-61(2x50)(360)	
1 x 15mm Standard (Inner) 1 x 15mm SoundBloc (Outer)	SD	7.2	360	60		67(-3;-9)			TWI146-B-77(2x50)(360)	

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

*Substituting 15mm British Gypsum Gyproc SoundBloc with 15mm British Gypsum Gyproc SoundBloc F gives the following increase in BS476 Pt22 1987 Fire Ratings Board Configuration (both sides of stud):-
2 x 15mm SoundBloc F - 120 Minutes

TRADELINE TWIN FRAME I STUD

Detail A



Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** I Stud (as table below)
2 x Insulation (as identified in the table)

Detail B

Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** C Stud (as table below)
2 x Insulation + full fill (as identified in the table)

Twin TRADELINE I Stud spaced at 600mm centres – Siniat Plasterboard

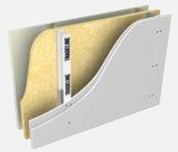
TRADELINE I Stud Siniat Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)		Data Sheet Reference	
					2 x 50mm APR	2 x 50mm 1 x 100mm APR	2 x 50mm APR	2 x 50mm 1 x 100mm APR
Double Layer Configurations					Detail A	Detail B		
50mm TRADELINE I Stud								
2 x 15mm dB Board	SD	2.7	200	90	69(2;-8)		TWI50-S-60(2x50)(200)	
2 x 12.5mm Fire Board	SD	2.7	250	90		69(-3;-9)		TWI50-S-61(2x50+100)(250)
2 x 15mm Fire Board	SD	2.7	200	120	68(-3;-9)		TWI50-S-62(2x50)(200)	
60mm TRADELINE I Stud								
2 x 15mm dB Board	SD	3.3	200	90	69(2;-8)		TWI60-S-60(2x50)(200)	
2 x 12.5mm Fire Board	SD	3.3	270	90		69(-3;-9)		TWI60-S-61(2x50+100)(270)
2 x 15mm Fire Board	SD	3.3	200	120	68(-3;-9)		TWI60-S-62(2x50)(200)	
70mm TRADELINE I Stud								
2 x 15mm dB Board	SD	3.9	210	90	69(2;-8)		TWI70-S-60(2x50)(210)	
2 x 12.5mm Fire Board	SD	3.9	300	90		69(-3;-9)		TWI70-S-61(2x50+100)(300)
2 x 15mm Fire Board	SD	3.9	210	120	68(-3;-9)		TWI70-S-62(2x50)(210)	
92mm TRADELINE I Stud								
2 x 15mm dB Board	SD	5.4	260	90	69(2;-8)		TWI92-S-60(2x50)(260)	
2 x 12.5mm Fire Board	SD	5.4	350	90		69(-3;-9)		TWI92-S-61(2x50+100)(350)
2 x 15mm Fire Board	SD	5.4	260	120	68(-3;-9)		TWI92-S-62(2x50)(260)	
146mm TRADELINE I Stud								
2 x 15mm dB Board	SD	7.2	370	90	69(2;-8)		TWI146-S-60(2x50)(370)	
2 x 12.5mm Fire Board	SD	7.2	450	90		69(-3;-9)		TWI146-S-61(2x50+100)(450)
2 x 15mm Fire Board	SD	7.2	370	120	68(-3;-9)		TWI146-S-62(2x50)(370)	

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply TRADELINE Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

SYSTEM PERFORMANCE TABLE | TRADELINE TWIN FRAME I STUD

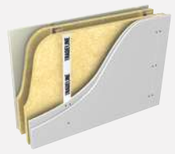
TRADELINE TWIN FRAME I STUD

Detail A



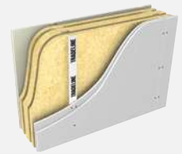
Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** I Stud (as table below)
1 x Insulation (as identified in the table)

Detail B



Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** I Stud (as table below)
2 x Insulation (as identified in the table)

Detail C



Two layers of plasterboard (as table below) to both outer sides of **TRADELINE** C Stud (as table below)
2 x Insulation + full fill (as identified in the table)

Twin TRADELINE I Stud spaced at 600mm centres – Knauf Plasterboard

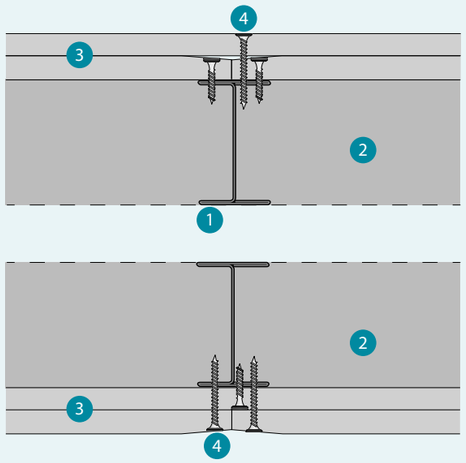
TRADELINE I Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 (minutes)	Sound Insulation (RwdB)			Data Sheet Reference		
					1 x 50mm APR	2 x 50mm APR	2 x 50mm 1 x 100mm APR	1 x 50mm APR	2 x 50mm APR	2 x 50mm 100mm APR
Double Layer Configurations					Detail A	Detail B	Detail C			
50mm TRADELINE I Stud										
2 x 12.5mm Soundshield Plus	SD	2.7	200	60	65(-3;-9)			TWI50-K-59(50) (200)		
2 x 12.5mm Soundshield Plus	SD	2.7	250	60			70(-2;-8)			TWI50-K-59(2x50+100)(250)
2 x 15mm Soundshield Plus	SD	2.7	200	120		69(-3;-9)			TWI50-K-60(2x50) (200)	
2 x 15mm Fire Panel	SD	2.7	200	120		67(-3;-9)			TWI50-K-62(2x50) (200)	
60mm TRADELINE I Stud										
2 x 12.5mm Soundshield Plus	SD	3.3	200	60	65(-3;-9)			TWI60-K-59(50) (200)		
2 x 12.5mm Soundshield Plus	SD	3.3	270	60			70(-2;-8)			TWI60-K-59(2x50+100)(270)
2 x 15mm Soundshield Plus	SD	3.3	200	120		69(-3;-9)			TWI60-K-60(2x50) (200)	
2 x 15mm Fire Panel	SD	3.3	200	120		67(-3;-9)			TWI60-K-62(2x50) (200)	
70mm TRADELINE I Stud										
2 x 12.5mm Soundshield Plus	SD	3.9	210	60	65(-3;-9)			TWI70-K-59(50) (210)		
2 x 12.5mm Soundshield Plus	SD	3.9	300	60			70(-2;-8)			TWI70-K-59(2x50+100)(300)
2 x 15mm Soundshield Plus	SD	3.9	210	120		69(-3;-9)			TWI70-K-60(2x50) (210)	
2 x 15mm Fire Panel	SD	3.3	210	120		67(-3;-9)			TWI70-K-62(2x50) (210)	
92mm TRADELINE I Stud										
2 x 12.5mm Soundshield Plus	SD	5.4	260	60	65(-3;-9)			TWI92-K-59(50) (260)		
2 x 12.5mm Soundshield Plus	SD	5.4	350	60			70(-2;-8)			TWI92-K-59(2x50+100)(350)
2 x 15mm Soundshield Plus	SD	5.4	260	120		69(-3;-9)			TWI92-K-60(2x50) (260)	
2 x 15mm Fire Panel	SD	5.4	260	120		67(-3;-9)			TWI92-K-62(2x50) (260)	
146mm TRADELINE I Stud										
2 x 12.5mm Soundshield Plus	SD	7.2	370	60	65(-3;-9)			TWI146-K-59(50) (370)		
2 x 12.5mm Soundshield Plus	SD	7.2	450	60			70(-2;-8)			TWI146-K-59(2x50+100)(450)
2 x 15mm Soundshield Plus	SD	7.2	370	120		69(-3;-9)			TWI146-K-60(2x50) (370)	
2 x 15mm Fire Panel	SD	7.2	370	120		67(-3;-9)			TWI146-K-62(2x50) (370)	

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Double Layer – Staggered Joint Detail

1. **TRADELINE** I Stud
2. **TRADELINE** Track
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw

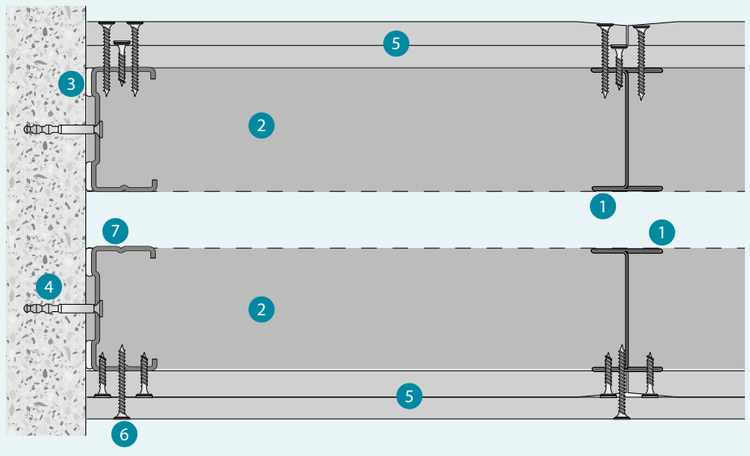


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME I STUD – Double Layer – Wall Abutment Detail

1. **TRADELINE** I Stud
2. **TRADELINE** Track
3. **TRADELINE** Acoustic Intumescent Sealant
4. **TRADELINE** Studs suitably fixed @ 600mm max centres
5. Plasterboard as specified
6. **TRADELINE** Drywall Screw
7. **TRADELINE** C Stud



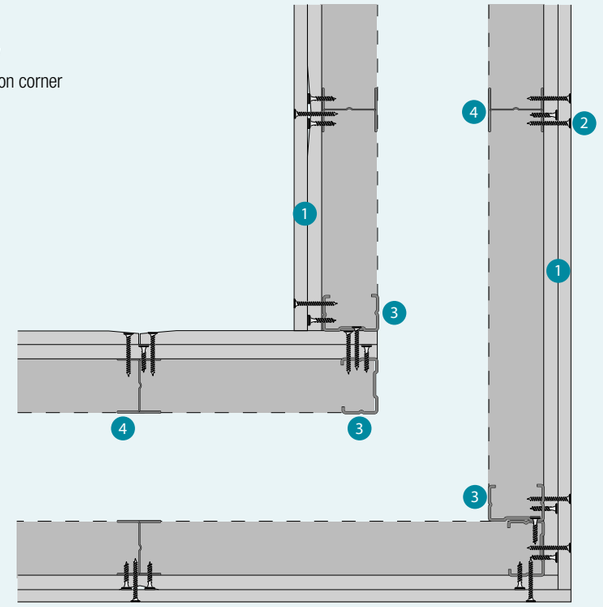
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Double Layer – Corner Detail

1. Plasterboard as specified
2. **TRADELINE** Drywall Screw
3. **TRADELINE** C Studs used on corner detail
4. **TRADELINE** I Stud

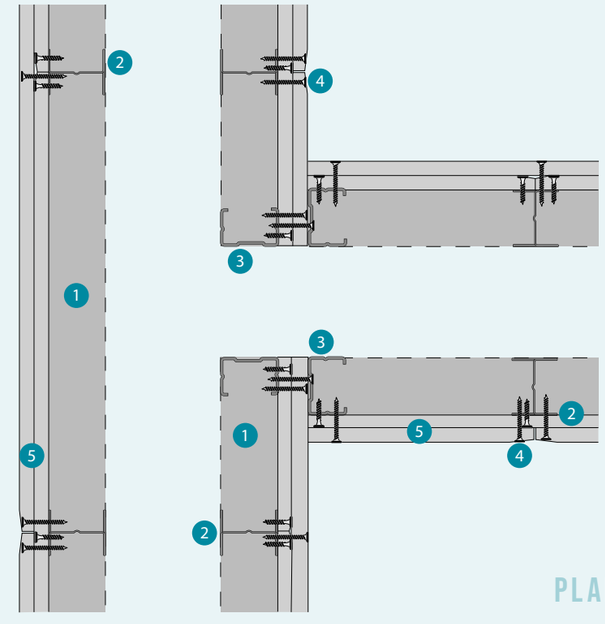


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME I STUD – Double Layer – Acoustic T Junction Detail

1. **TRADELINE** Track
2. **TRADELINE** I Studs
3. **TRADELINE** C Studs used on corner detail
4. **TRADELINE** Drywall Screw
5. Plasterboard as specified



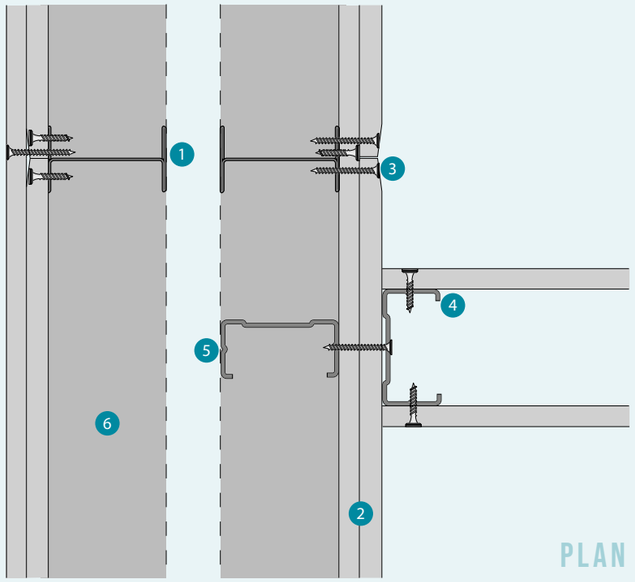
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Double Layer – T Junction Detail with Standard Partition Detail

1. **TRADELINE** I Stud
2. Plasterboard as specified
3. **TRADELINE** Drywall Screw
4. **TRADELINE** C Stud
5. **TRADELINE** C Stud as pick up stud
6. **TRADELINE** Track

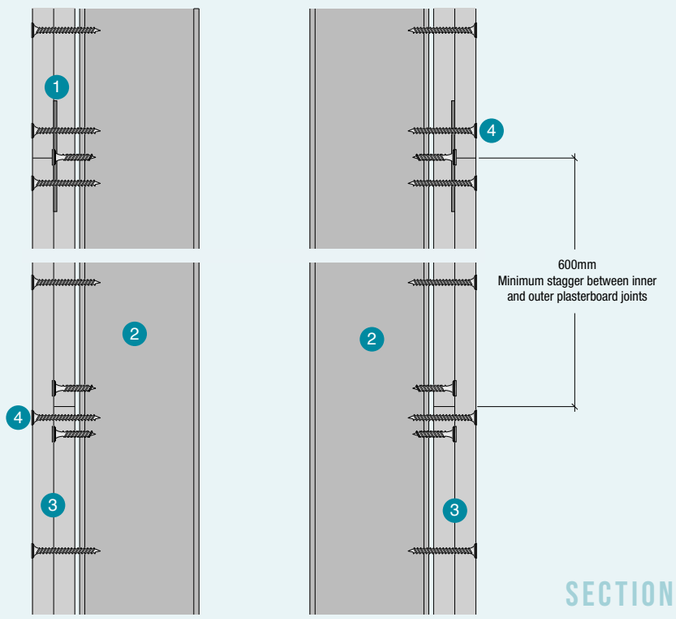


PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE TWIN FRAME I STUD – Double Layer – Horizontal Plasterboard Joint Detail

1. **TRADELINE** FS24 (Flat Strap) behind outer horizontal plasterboard joint
2. **TRADELINE** I Stud
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw



SECTION VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

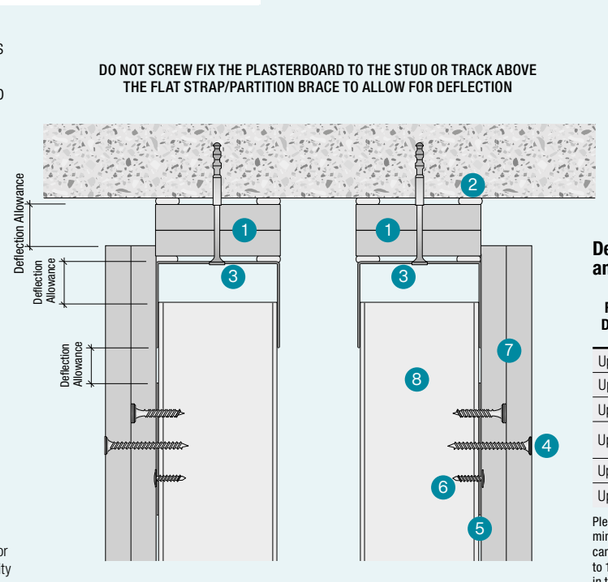
HOW TO BUILD | TRADELINE TWIN FRAME I STUD

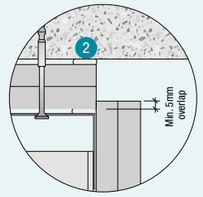
TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Double Layer – Deflection Head Detail 60 Minutes (FS24-PB24 Stud Mounted)

SECTION VIEW

1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap/ Partition Brace screw fixed
6. **TRADELINE** Wafer Head Drywall Screw
7. Plasterboard as specified
8. **TRADELINE** I Stud





Deflection Head - Head Track and Packer board guidance

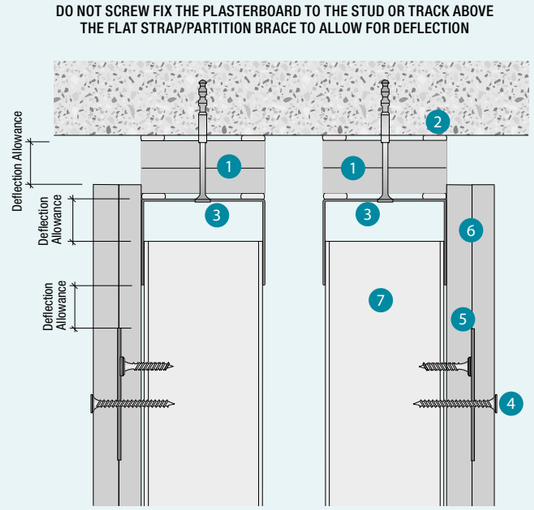
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

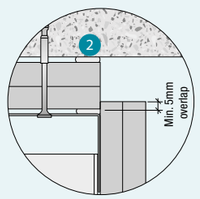
Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME I STUD – Double Layer – Deflection Head Detail 60 Minutes (FS24 in-between board layers)

SECTION VIEW

1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Top Track suitably fixed @ 600mm max centres
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap
6. Plasterboard as specified
7. **TRADELINE** I Stud





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

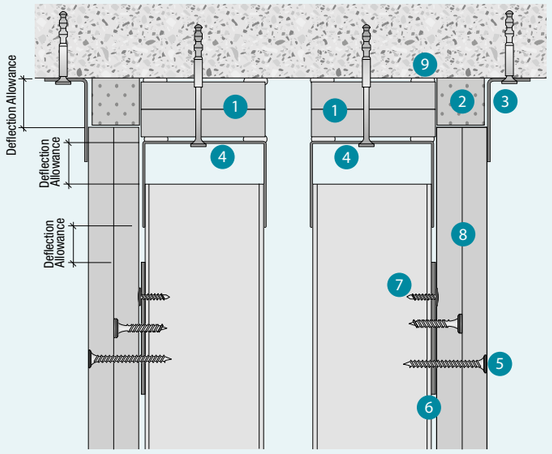
TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Double Layer – Deflection Head Detail 90 & 120 Minutes (Cloaking Angle & FS24-PB24 Stud Mounted)

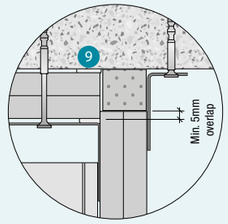
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @ 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap/Partition Brace screw fixed
7. **TRADELINE** Wafer Head Drywall Screws
8. Plasterboard as specified
9. **TRADELINE** Acoustic Intumescent Sealant

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



SECTION VIEW



Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

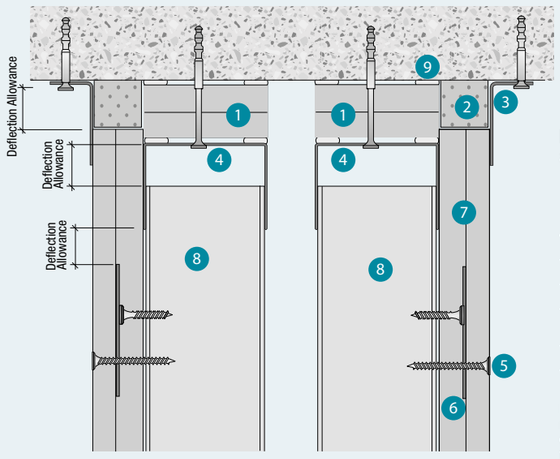
Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE TWIN FRAME I STUD – Double Layer – Deflection Head Detail 90 & 120 Minutes (Cloaking Angle & FS24 in-between board)

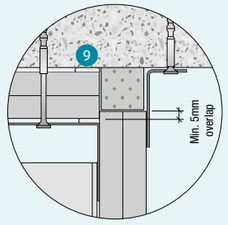
1. Allowable specified continuous plasterboard head packers to enable a nominal 5mm overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @ 600mm max centres
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Flat Strap/Partition Brace screw fixed or crimped
7. Plasterboard as specified
8. **TRADELINE** I Stud
9. **TRADELINE** Acoustic Intumescent Sealant

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



SECTION VIEW



Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

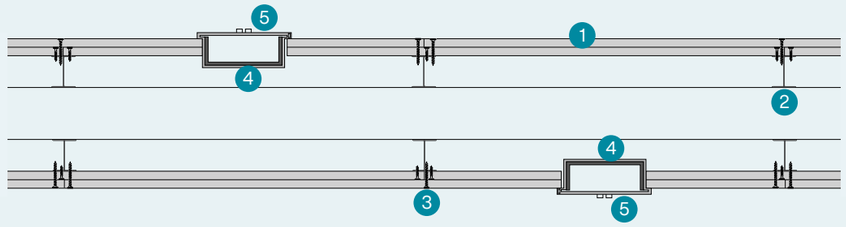
Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

HOW TO BUILD | TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD

TRADELINE TWIN FRAME I STUD – Staggered electrical socket box with putty pad inclusion

1. Plasterboard as specified
2. **TRADELINE** I Stud
3. **TRADELINE** Drywall Screw
4. Suitable Putty pad to maintain fire performance
5. Electrical Socket box opening staggered



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

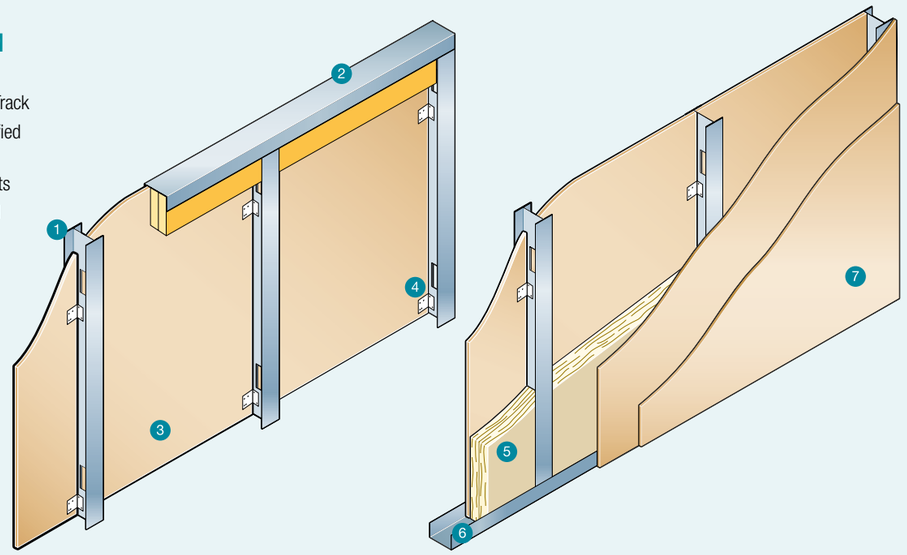
PLAN VIEW

TRADELINE SHAFT ENCASEMENT SYSTEM

TRADELINE Shaft Encasement systems are lightweight, non load-bearing, friction fit systems. They can be used within all sectors and provide high levels of fire resistance up to 120 minutes. Due to its construction method, it can be used within areas of limited access such as service risers.

TRADELINE SHAFT ENCASEMENT SYSTEM

1. **TRADELINE** I Stud
2. **TRADELINE** Deep Track
3. CoreBoard as specified
4. **TRADELINE** Shaft Encasement Brackets
5. Insulation if required
6. **TRADELINE** Track
7. Fire Resistant Plasterboard



METAL

TRADELINE Track page 174

TRADELINE I Stud page 176

METAL ACCESSORIES

TRADELINE Partition Brace page 176

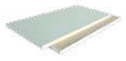
FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

FINISHINGS

TRADELINE Acoustic Intumescent Sealant Foil page.187



Plasterboard

Insulation

Construction

The Shaft Encasement System is installed from the non shaft side using I Stud framing.

Fix extra deep track to structural soffit with suitable fixings spaced at 600mm maximum centres. Fix either standard or deep track along the floor with suitable fixings spaced at 600mm maximum centres.

For 94mm and 148mm tracks we recommend two rows of fixings at 600mm staggered by 300mm.

CoreBoard nominally 595mm wide by either 19mm or 25mm thick is cut to length 25mm less than the overall height for standard track and 32mm for deep track. The CoreBoard is located between the I Studs and secured using shaft encasement brackets spaced at 600mm maximum centres. The 25mm or 32mm gap is left at the top of the partition.

Fire Resistant plasterboard packers 100mm deep are screw fixed to the CoreBoard at the head of the partition. It is important that the packers are tight against the head track and that the packers fill the full width of the track.

TRADELINE Acoustic Intumescent Sealant must be used:

- On all metal to structure surfaces
- On all metal to CoreBoard surfaces
- Between plasterboard packers and CoreBoard at the head detail.

Corner and Junction information is detailed separately.

Fire Resistant plasterboard is fixed to the outside of the framework on the non shaft side of the partition. Fire performance has been measured from shaft side normally, please liaise with building control for suitability.

Double Layer Installations

Inner layers of Fire Resistant plasterboard can be fixed at 600mm maximum centres but outer layer must be fixed at 300mm maximum centres to the metal framework with the appropriate screw. All layers of Fire Resistant plasterboard should be fixed with all joints staggered.

SYSTEM PERFORMANCE TABLE

TRADELINE SHAFT ENCASEMENT SYSTEM

Detail A	Detail B	Detail C	Detail D	Detail E	Detail F
					
One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side	One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table	Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side	Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table	Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side	Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

TRADELINE I Stud spaced at 600mm centres - British Gypsum Gyproc Plasterboard

TRADELINE I Stud British Gypsum Gyproc Plasterboard	**Partition Grade Duty Rating BS5234-2: 1992**	**Max Height (metres) L/240 @ 200 Pa**	**Nominal Width (mm) Excluding Finishes**	**Fire Resistance BS476-22: 1987 Fire From Shaft Side (minutes)**	**Fire Resistance BS476-22: 1987 Fire From Landing Side (minutes)**	**Sound Insulation (RwdB)**		**Data Sheet Reference**	
						No Infill	**25mm APR**	**No Infill**	**25mm APR**
60mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fireline + 19mm Coreboard secured between studs	HD	3.8	77	60	N/A	39	42	SE60-B-56	SE60-B-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fireline + 19mm Coreboard secured between studs	SD	4.4	87	90	60	40	46#	SE60-B-61	SE60-B-61(25)
2 x 15mm Fireline + 19mm Coreboard secured between studs	SD	4.5	92	120	90	42	47#	SE60-B-62	SE60-B-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fireline + 19mm Coreboard secured between studs	SD	4.5	107	120	120	43	49#	SE60-B-72	SE60-B-72(25)
70mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fireline + 19mm Coreboard secured between studs	HD	4.2	87	60	N/A	39	42	SE70-B-56	SE70-B-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fireline + 19mm Coreboard secured between studs	SD	4.4	97	90	60	40	46#	SE70-B-61	SE70-B-61(25)
2 x 15mm Fireline + 19mm Coreboard secured between studs	SD	4.5	102	120	90	42	47#	SE70-B-62	SE70-B-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fireline + 19mm Coreboard secured between studs	SD	4.5	117	120	120	43	49#	SE70-B-72	SE70-B-72(25)
92mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fireline + 19mm Coreboard secured between studs	HD	6	109	60	N/A	40	43	SE92-B-56	SE92-B-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fireline + 19mm Coreboard secured between studs	SD	6.4	119	90	60	42	46#	SE92-B-61	SE92-B-61(25)
2 x 15mm Fireline + 19mm Coreboard secured between studs	SD	6.7	124	120	90	44	47#	SE92-B-62	SE92-B-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fireline + 19mm Coreboard secured between studs	SD	6.7	139	120	120	45	49#	SE92-B-72	SE92-B-72(25)
146mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fireline + 19mm Coreboard secured between studs	HD	7	163	60	N/A	43	46	SE146-B-56	SE146-B-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fireline + 19mm Coreboard secured between studs	SD	7.5	173	90	60	45	50	SE146-B-61	SE146-B-61(25)
2 x 15mm Fireline + 19mm Coreboard secured between studs	SD	7.9	178	120	90	48	50	SE146-B-62	SE146-B-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fireline + 19mm Coreboard secured between studs	SD	7.9	193	120	120	49	50	SE146-B-72	SE146-B-72(25)

Acoustic performances are based on estimation unless proceeded by # which have been acoustically tested.

Shaft Encasement duty ratings are estimated.

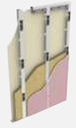
As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply TRADELINE Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE SHAFT ENCASEMENT SYSTEM

Detail A

One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail B

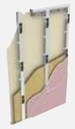


One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

Detail C

Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail D



Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

Detail E

Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail F

Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

TRADELINE I Stud spaced at 600mm centres - Siniat Plasterboard

TRADELINE I Stud Siniat GTEC Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 Fire From Shaft Side (minutes)	Fire Resistance BS476-22: 1987 Fire From Landing Side (minutes)	Sound Insulation (RwdB) No Infill	Sound Insulation (RwdB) 25mm APR	Data Sheet Reference No Infill	Data Sheet Reference 25mm APR
60mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Board + 19mm Coreboard secured between studs	HD	3.8	77	60	N/A	39	42	SE60-S-56	SE60-S-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Board + 19mm Coreboard secured between studs	SD	4.4	87	60	60[1]	40	46	SE60-S-61	SE60-S-61(25)
2 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	4.5	95	120	60[1]	42	47	SE60-S-62	SE60-S-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	4.5	107	120	60[1]	43	49	SE60-S-72	SE60-S-72(25)
70mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Board + 19mm Coreboard secured between studs	HD	4.2	87	60	N/A	39	42	SE70-S-56	SE70-S-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Board + 19mm Coreboard secured between studs	SD	4.4	97	60	60[1]	40	46	SE70-S-61	SE70-S-61(25)
2 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	4.5	102	120	60[1]	42	47	SE70-S-62	SE70-S-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	4.5	117	120	60[1]	43	49	SE70-S-72	SE70-S-72(25)
92mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Board + 19mm Coreboard secured between studs	HD	6	109	60	N/A	40	43	SE92-S-56	SE92-S-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Board + 19mm Coreboard secured between studs	SD	6.4	119	60	60[1]	42	46	SE92-S-61	SE92-S-61(25)
2 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	6.7	124	120	60[1]	44	47	SE92-S-62	SE92-S-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	6.7	139	120	60[1]	45	49	SE92-S-72	SE92-S-72(25)
146mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Board + 19mm Coreboard secured between studs	HD	7	163	60	N/A	43	46	SE146-S-56	SE146-S-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Board + 19mm Coreboard secured between studs	SD	7.5	173	60	60[1]	45	50	SE146-S-61	SE146-S-61(25)
2 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	7.9	178	120	60[1]	48	50	SE146-S-62	SE146-S-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Board + 19mm Coreboard secured between studs	SD	7.9	193	120	60[1]	49	50	SE146-S-72	SE146-S-72(25)

[1]INTEGRITY ONLY - When exposed from fire on the landing side this system did not satisfy the insulation performance criteria on the framing members. Therefore, when specifying this system it must be checked with the relevant approval authority for the project that this is acceptable, perhaps on the grounds that there will be no combustible materials in close proximity of the framing sections within the shaft.

Acoustic performances are estimated. Shaft Encasement duty ratings are estimated.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply TRADELINE Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

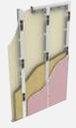
SYSTEM PERFORMANCE TABLE | TRADELINE SHAFT ENCASEMENT SYSTEM

TRADELINE SHAFT ENCASEMENT SYSTEM

Detail A

One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail B



One layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

Detail C

Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail D

Double layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

Detail E

Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side

Detail F

Triple layer of plasterboard (as table below) to landing side of **TRADELINE** I Stud (as table below) CoreBoard secured in-between I Studs shaft side. Insulation as detailed in table

TRADELINE I Stud spaced at 600mm centres – Knauf Plasterboard

TRADELINE I Stud Knauf Plasterboard	Partition Grade Duty Rating BS5234-2: 1992	Max Height (metres) L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes	Fire Resistance BS476-22: 1987 Fire From Shaft Side (minutes)	Fire Resistance BS476-22: 1987 Fire From Landing Side (minutes)	Sound Insulation (RwdB) No Infill	Sound Insulation (RwdB) 25mm APR	Data Sheet Reference No Infill	Data Sheet Reference 25mm APR
60mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Panel + 19mm CoreBoard secured between studs	HD	3.8	77	60	N/A	39	42	SE60-K-56	SE60-K-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Panel + 19mm CoreBoard secured between studs	SD	4.5	87	60	N/A	40	46	SE60-K-61	SE60-K-61(25)
2 x 15mm Fire Panel + 19mm Coreboard secured between studs	SD	4.5	92	120	N/A	42	47	SE60-K-62	SE60-K-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Panel + 19mm CoreBoard secured between studs	SD	4.5	107	120	120	43	49	SE60-K-72	SE60-K-72(25)
70mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Panel + 19mm CoreBoard secured between studs	HD	4.2	87	60	N/A	39	42	SE70-K-56	SE70-K-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Panel + 19mm CoreBoard secured between studs	SD	4.4	97	60	N/A	40	47	SE70-K-61	SE70-K-61(25)
2 x 15mm Fire Panel + 19mm Coreboard secured between studs	SD	4.5	102	120	N/A	42	47	SE70-K-62	SE70-K-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Panel + 19mm CoreBoard secured between studs	SD	4.5	117	120	120	43	49	SE70-K-72	SE70-K-72(25)
92mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Panel + 19mm CoreBoard secured between studs	HD	6	109	60	N/A	40	43	SE92-K-56	SE92-K-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Panel + 19mm CoreBoard secured between studs	SD	6.4	119	60	N/A	42	46	SE92-K-61	SE92-K-61(25)
2 x 15mm Fire Panel + 19mm Coreboard secured between studs	SD	6.7	124	120	N/A	44	47	SE92-K-62	SE92-K-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Panel + 19mm CoreBoard secured between studs	SD	6.7	139	120	120	45	49	SE92-K-72	SE92-K-72(25)
146mm TRADELINE I Stud									
Single Layer Configurations						**Detail A**	**Detail B**		
1 x 15mm Fire Panel + 19mm CoreBoard secured between studs	HD	7	163	60	N/A	43	46	SE146-K-56	SE146-K-56(25)
Double Layer Configurations						**Detail C**	**Detail D**		
2 x 12.5mm Fire Panel + 19mm CoreBoard secured between studs	SD	7.5	1738	60	N/A	45	50	SE146-K-61	SE146-K-61(25)
2 x 15mm Fire Panel + 19mm Coreboard secured between studs	SD	7.9	178	120	N/A	48	50	SE146-K-62	SE146-K-62(25)
Triple Layer Configurations						**Detail E**	**Detail F**		
3 x 15mm Fire Panel + 19mm CoreBoard secured between studs	SD	7.9	193	120	120	49	50	SE146-K-72	SE146-K-72(25)

Acoustic performances are estimated. Shaft Encasement duty ratings are estimated.

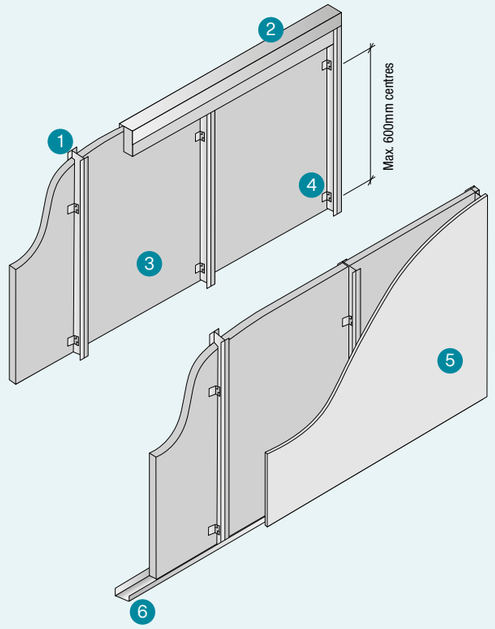
As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Single Layer – General Layout

1. **TRADELINE** I Stud
2. **TRADELINE** Head Track as specified suitably fixed to soffit at max. 600mm ctrs.
3. CoreBoard fixed between I Studs
4. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
5. Plasterboard as specified
6. **TRADELINE** Base Track as specified suitably fixed at max. 600mm ctrs.

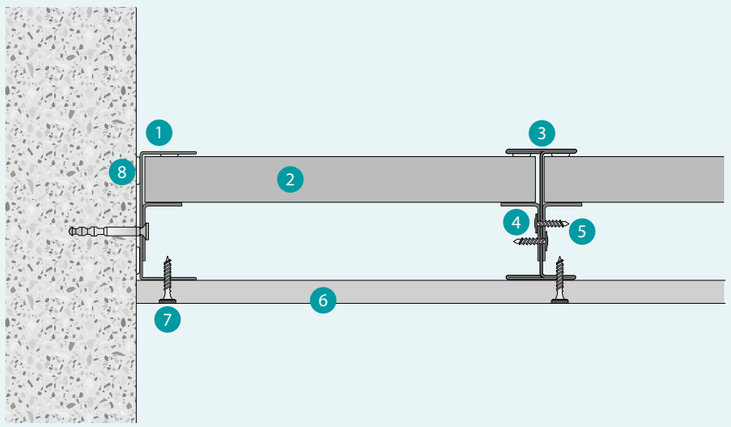
Ensure **TRADELINE** ASB62B Fixing Bracket fixed at max. 150mm from the head and base supporting core board with consideration to deflection head.



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE SHAFT ENCASEMENT – Single Layer – Wall Abutment

1. **TRADELINE** Track (min. 50mm leg length) suitably fixed @600mm max centres
2. CoreBoard
3. **TRADELINE** I Stud
4. **TRADELINE** ASB62B Brackets
5. **TRADELINE** Wafer Head Drywall Screws
6. Plasterboard as specified
7. **TRADELINE** Drywall Screw
8. **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

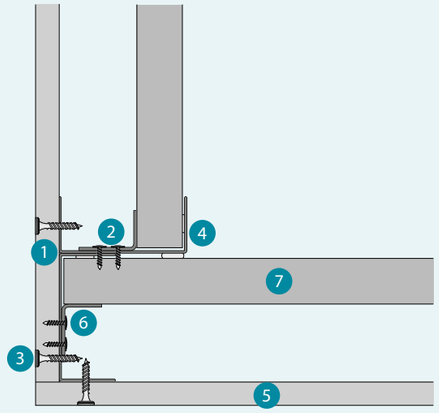
PLAN VIEW

HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Single Layer – Corner Detail

1. Tracks fixed together at maximum 600mm centres to support corner
2. **TRADELINE** Wafer Head Drywall screws securing encasement brackets
3. **TRADELINE** Drywall Screw
4. **TRADELINE** Track
5. Plasterboard as specified
6. **TRADELINE** ASB62B Fixing Brackets @600mm maximum centres
7. CoreBoard



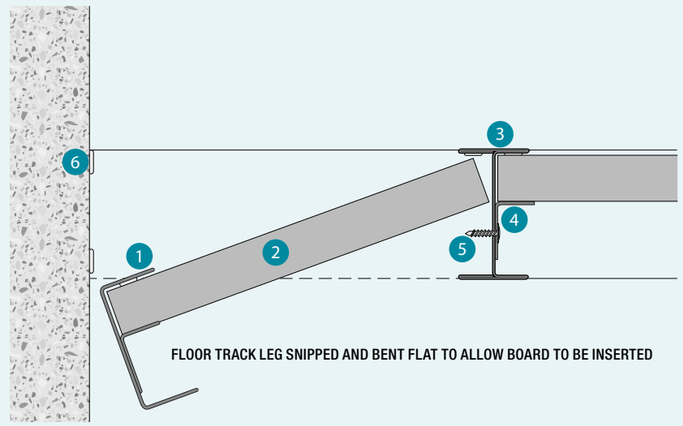
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT – Single Layer – Wall End Detail

1. **TRADELINE** Track (min. 50mm leg length)
2. CoreBoard
3. **TRADELINE** I Stud
4. **TRADELINE** ASB62B Fixing Brackets @600mm maximum centres
5. **TRADELINE** Wafer Head Drywall Screws
6. **TRADELINE** Acoustic Intumescent Sealant

Ensure **TRADELINE** ASB62B Fixing Bracket fixed at max. 50mm from the head and base supporting core board with consideration to deflection head.



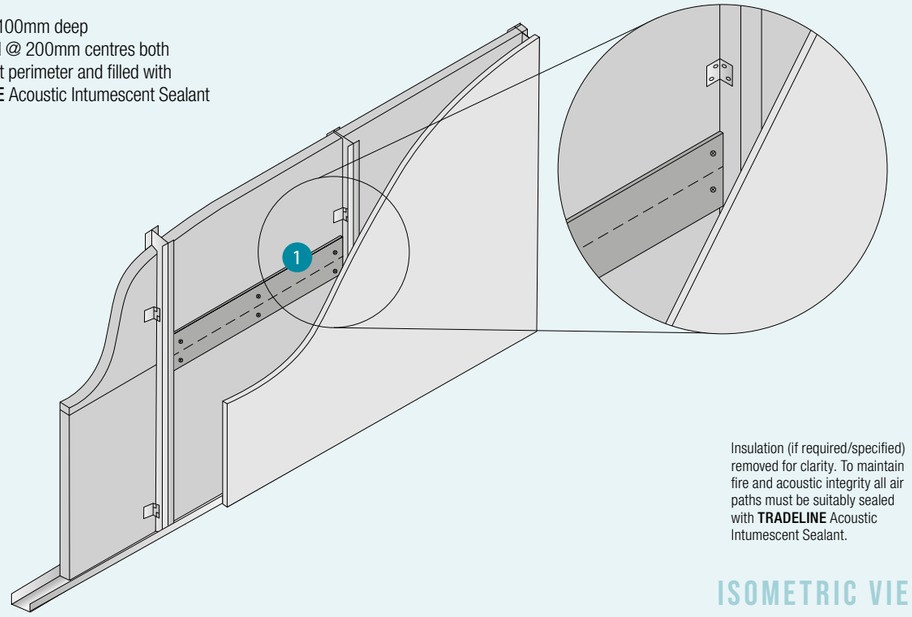
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Single Layer – CoreBoard Joint Packer Detail

1. CoreBoard 100mm deep Screw Fixed @ 200mm centres both sides of joint perimeter and filled with **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

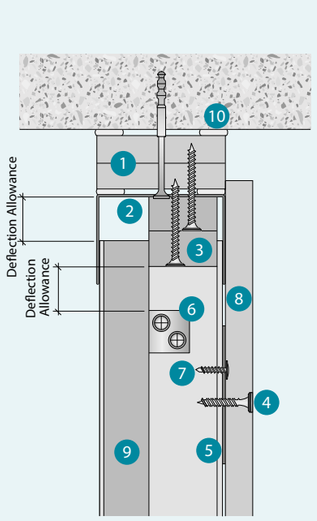
ISOMETRIC VIEW

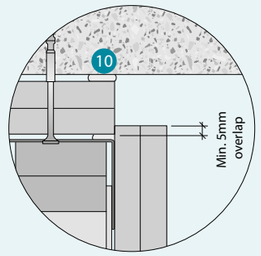
TRADELINE SHAFT ENCASEMENT – Single Layer – Deflection Head Detail 60 minutes

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Top Track suitably fixed @600mm max centres
3. CoreBoard fixed between I Studs
4. **TRADELINE** Drywall Screws
5. **TRADELINE** Flat Strap/Partition Brace screw fixed
6. **TRADELINE** ASB62B Brackets
7. **TRADELINE** Wafer Head Drywall Screws
8. Plasterboard as specified
9. CoreBoard
10. **TRADELINE** Acoustic Intumescent Sealant

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

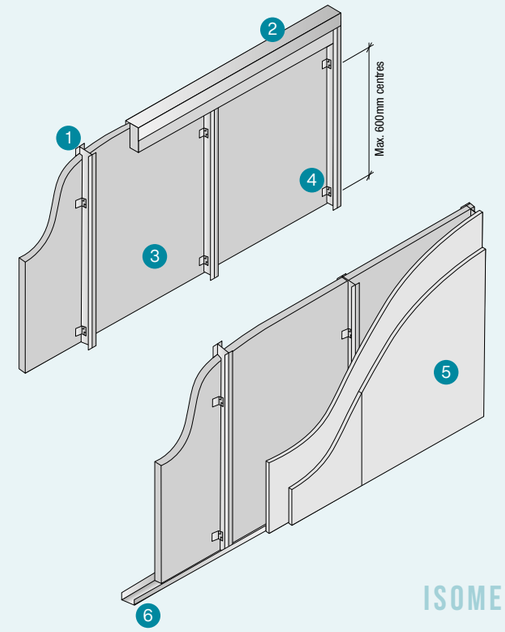
TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Double Layer – General Detail

1. **TRADELINE** I Stud
2. **TRADELINE** Head Track as specified suitably fixed to soffit at max. 600mm ctrs.
3. CoreBoard fixed between I Studs
4. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
5. Plasterboard as specified
6. **TRADELINE** Base Track as specified suitably fixed at max. 600mm ctrs.

Ensure **TRADELINE** ASB62B Fixing Bracket fixed at max. 150mm from the head and base supporting core board with consideration to deflection head.

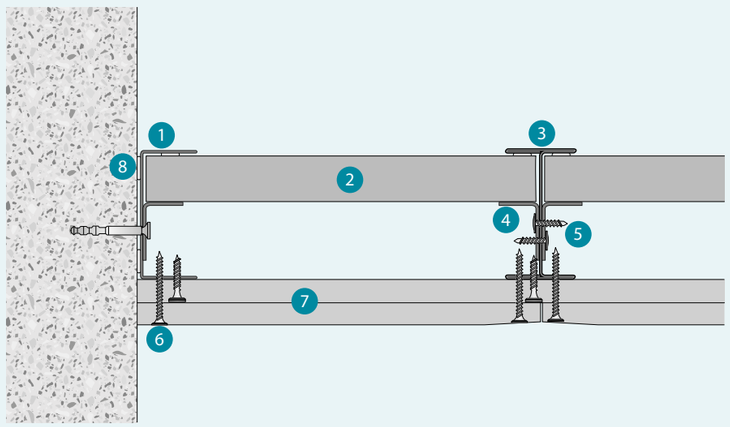
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.



ISOMETRIC VIEW

TRADELINE SHAFT ENCASEMENT – Double Layer – Wall Abutment Detail

1. **TRADELINE** Track (min. 50mm leg length) suitably fixed @ 600mm max centres
2. CoreBoard
3. **TRADELINE** I Stud
4. **TRADELINE** ASB62B Brackets
5. **TRADELINE** Wafer Head Drywall Screws
6. **TRADELINE** Drywall Screw
7. Plasterboard as specified
8. **TRADELINE** Acoustic Intumescent Sealant



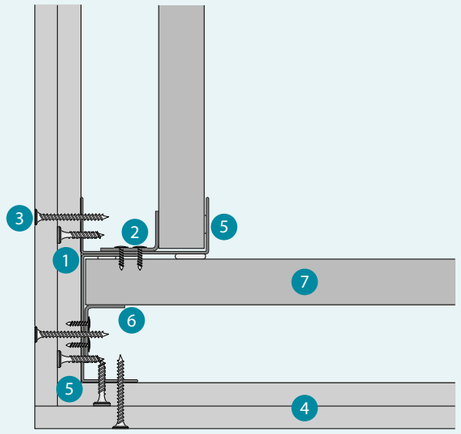
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Double Layer – Corner Detail

1. Track fixed together to support corner
2. **TRADELINE** Wafer Head Drywall screws securing encasement brackets
3. **TRADELINE** Drywall Screws
4. Plasterboard as per specification
5. **TRADELINE** Track
6. **TRADELINE** ASB62B Brackets Fixing Brackets @ 600mm max centres
7. CoreBoard

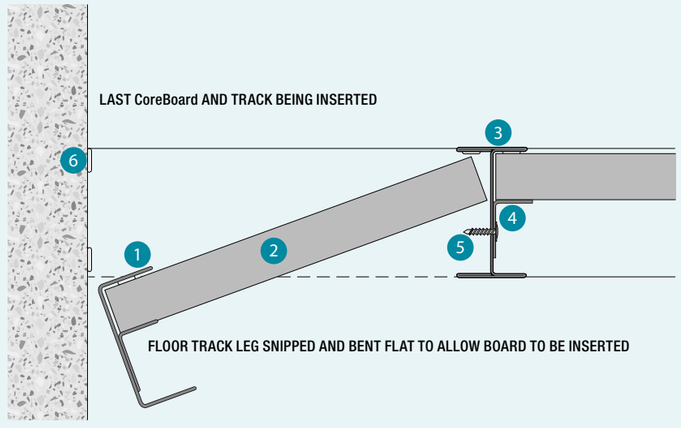


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT – Double Layer – Wall End Detail

1. **TRADELINE** Track (min. 50mm leg length)
2. CoreBoard
3. **TRADELINE** I Studs
4. **TRADELINE** ASB62B Fixing Brackets @ 600mm max centres
5. **TRADELINE** Wafer Head Drywall Screws
6. **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

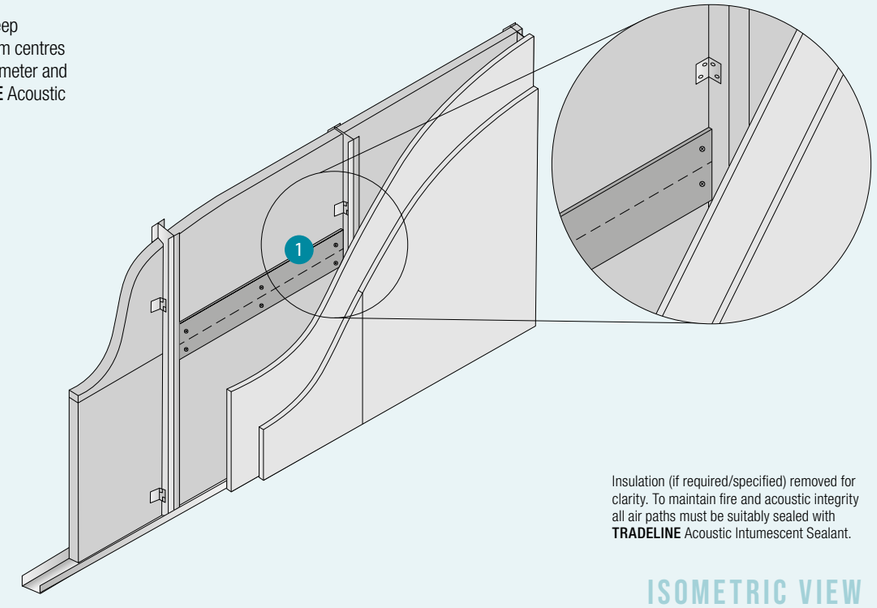
PLAN VIEW

HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Double Layer – CoreBoard Joint Packer Detail

1. CoreBoard 100mm deep Screw Fixed @ 200mm centres both sides of joint perimeter and filled with **TRADELINE** Acoustic Intumescent Sealant



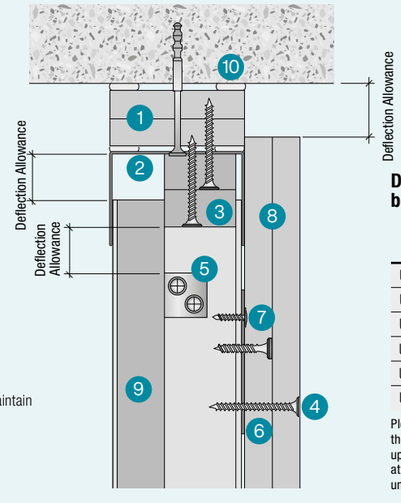
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

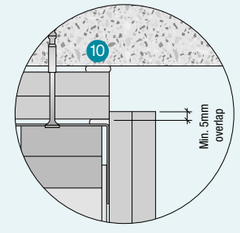
ISOMETRIC VIEW

TRADELINE SHAFT ENCASEMENT – Double Layer – Deflection Head Detail (FS24 or PB24 Stud Mounted) 60 minutes

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Top Track suitably fixed @600mm max centres
3. CoreBoard fixed between I Studs
4. **TRADELINE** Drywall Screw
5. **TRADELINE** ASB62B Fixing Bracket
6. **TRADELINE** Flat Strap/Partition Brace screw fixed
7. **TRADELINE** Wafer Head Drywall Screws
8. Plasterboard as specified
9. CoreBoard
10. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

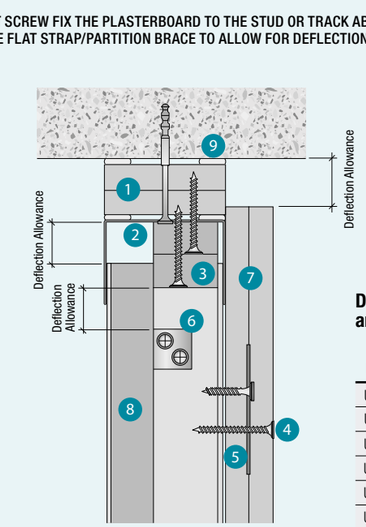
TRADELINE SHAFT ENCASEMENT

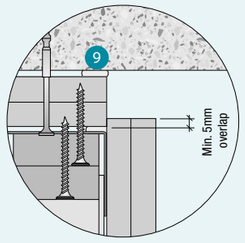
TRADELINE SHAFT ENCASEMENT – Double Layer – Deflection Head Detail (FS24 in-between board layers) 60 minutes

SECTION VIEW

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Top Track suitably fixed @600mm max centres
3. CoreBoard fixed between I Studs
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Flat Strap
6. **TRADELINE** ASB62B Fixing Bracket
7. Plasterboard as specified
8. CoreBoard
9. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

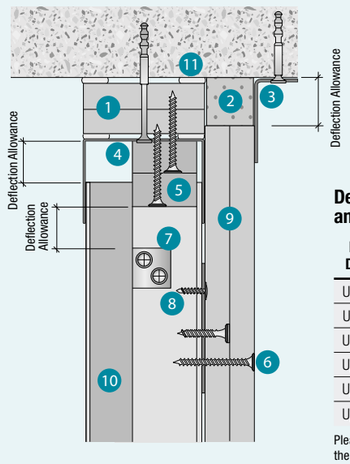
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

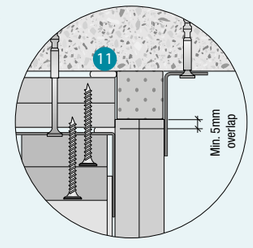
TRADELINE SHAFT ENCASEMENT – Double Layer – Deflection Head Detail (FS24 or PB24 Stud Mounted) 90 & 120 Minutes Cloaking Angle

SECTION VIEW

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @600mm max centres
5. CoreBoard fixed between I Studs
6. **TRADELINE** Drywall Screw
7. **TRADELINE** ASB62B Fixing Bracket
6. **TRADELINE** Flat Strap/Partition Brace screw fixed or crimped
8. **TRADELINE** Wafer Head Drywall Screws
9. Plasterboard as specified
10. CoreBoard
11. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

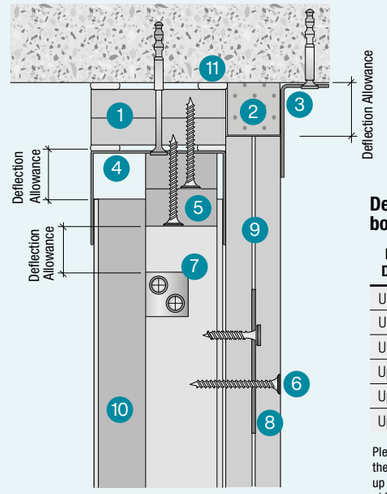
HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

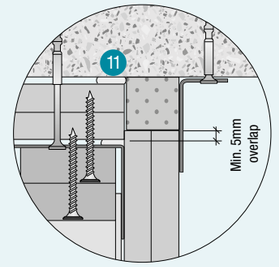
TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Double Layer – Deflection Head Detail (FS24 in-between board layer) 90 & 120 Minutes Cloaking Angle

SECTION VIEW

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @600mm max centres
5. CoreBoard fixed between I Studs
6. **TRADELINE** Drywall Screw
7. **TRADELINE** ASB62B Fixing Bracket
8. **TRADELINE** Flat Strap/Partition Brace screw fixed
9. Plasterboard as specified
10. CoreBoard
11. **TRADELINE** Acoustic Intumescent Sealant





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

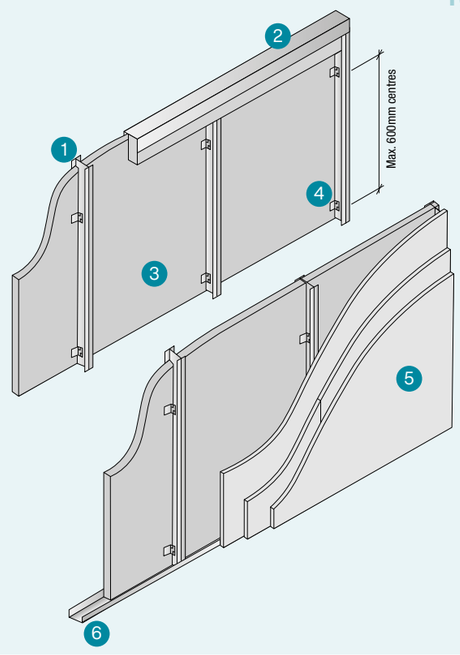
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE SHAFT ENCASEMENT – Triple Layer – General Layout

ISOMETRIC VIEW

1. **TRADELINE** I Stud
2. **TRADELINE** Head Track as specified suitably fixed to soffit at max. 600mm ctrs.
3. CoreBoard fixed between I Studs
4. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
5. Plasterboard as specified
6. **TRADELINE** Base Track as specified suitably fixed at max. 600mm ctrs.

Ensure **TRADELINE** ASB62B Fixing Bracket fixed at max. 150mm from the head and base supporting core board with consideration to deflection head.

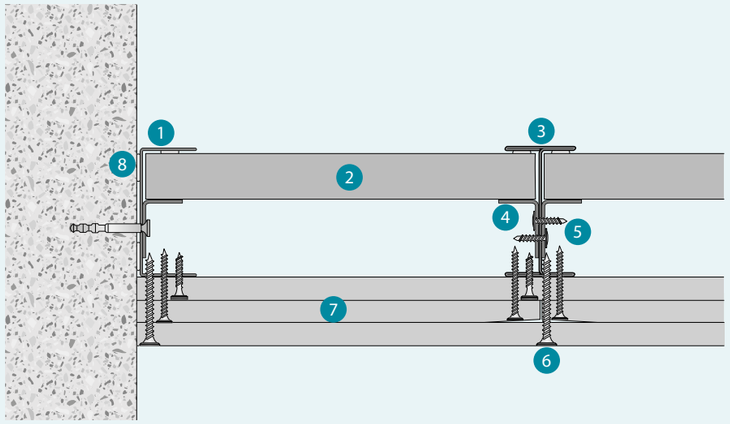


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Triple Layer – Wall Abutment

1. **TRADELINE** Track (min. 50mm leg length) suitably fixed @ 600mm max centres
2. CoreBoard
3. **TRADELINE** I Stud
4. **TRADELINE** ASB62B Brackets
5. **TRADELINE** Wafer Head Drywall Screws
6. **TRADELINE** Drywall Screw
7. Plasterboard as specified
8. **TRADELINE** Acoustic Intumescent Sealant

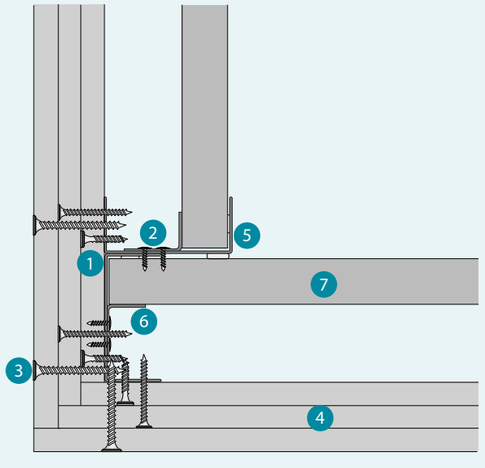


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT – Triple Layer – Corner Detail

1. **TRADELINE** Track fixed together to support corner
2. **TRADELINE** Wafer Head Drywall screws securing encasement brackets
3. **TRADELINE** Drywall Screws
4. Plasterboard as per specification
5. **TRADELINE** Track
6. **TRADELINE** ASB62B Brackets Fixing Brackets @ 600mm max centres
7. CoreBoard



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

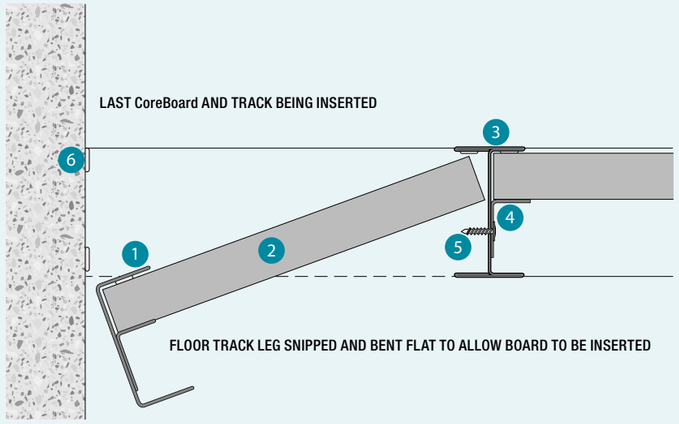
PLAN VIEW

HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Triple Layer – Wall End Detail

1. **TRADELINE** Track (min. 50mm leg length)
2. CoreBoard
3. **TRADELINE** I Studs
4. **TRADELINE** ASB62B Fixing Brackets @ 600mm max centres
5. **TRADELINE** Wafer Head Drywall Screws
6. **TRADELINE** Acoustic Intumescent Sealant

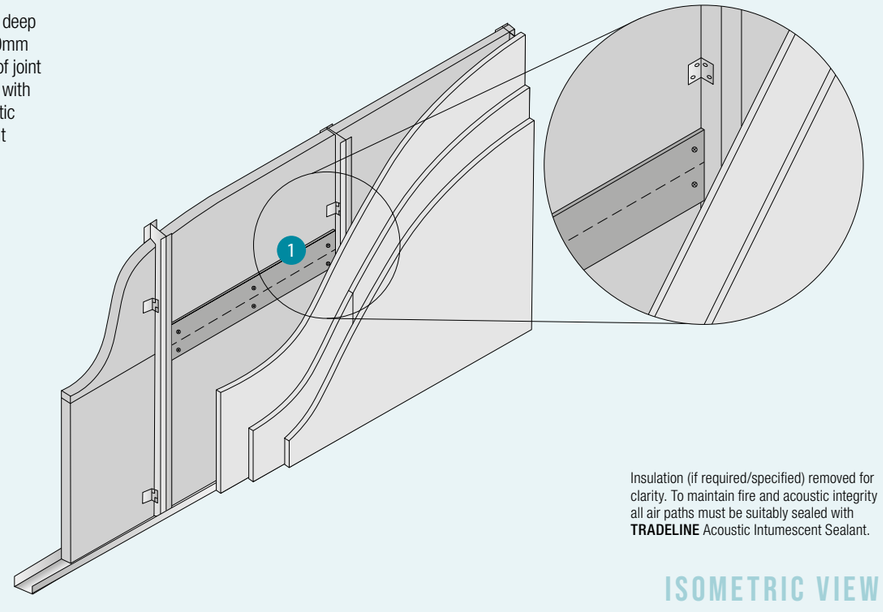


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE SHAFT ENCASEMENT – Triple Layer – CoreBoard Joint Packer Detail

1. CoreBoard 100mm deep Screw Fixed @ 200mm centres both sides of joint perimeter and filled with **TRADELINE** Acoustic Intumescent Sealant



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

ISOMETRIC VIEW

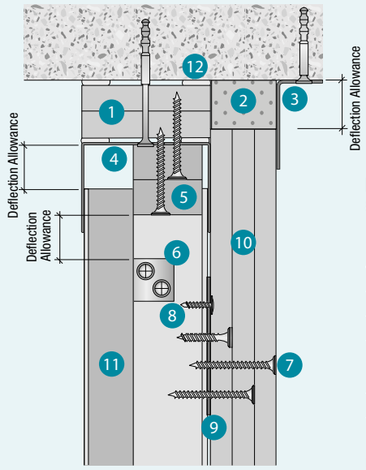
TRADELINE SHAFT ENCASEMENT

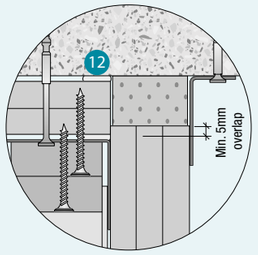
TRADELINE SHAFT ENCASEMENT – Triple Layer – Deflection Head Detail (FS24 or PB24 Stud Mounted) 90 & 120 Minutes Cloaking Angle

SECTION VIEW

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @600mm max centres
5. CoreBoard fixed between I Studs
6. **TRADELINE** ASB62B Fixing Bracket
7. **TRADELINE** Drywall Screw
8. **TRADELINE** Wafer Head Drywall Screws
9. **TRADELINE** Flat Strap
10. Plasterboard as specified
11. CoreBoard
12. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

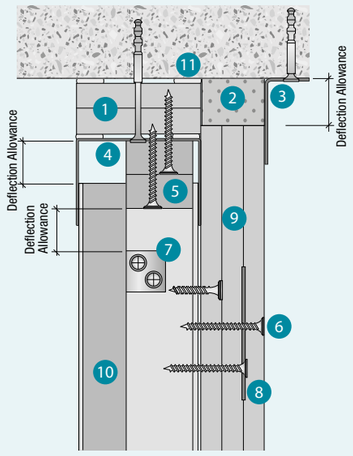
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

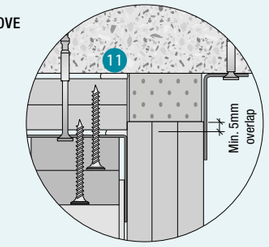
TRADELINE SHAFT ENCASEMENT – Triple Layer – Deflection Head Detail (FS24 in-between board layer) 90 & 120 Minutes Cloaking Angle

SECTION VIEW

1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. Rockwool Insulation
3. **TRADELINE** 25mm x 50mm Cloaking Angle suitably fixed @ 600mm max centres
4. **TRADELINE** Top Track suitably fixed @600mm max centres
5. CoreBoard fixed between I Studs
6. **TRADELINE** Drywall Screw
7. **TRADELINE** ASB62B Fixing Bracket
8. **TRADELINE** Flat Strap
9. Plasterboard as specified
10. CoreBoard
11. **TRADELINE** Acoustic Intumescent Sealant

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION





Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

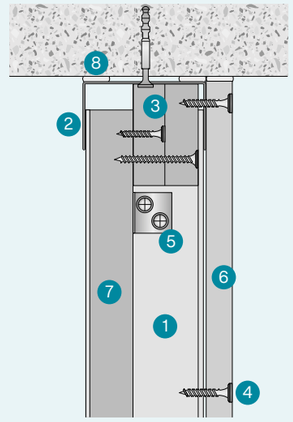
HOW TO BUILD | TRADELINE SHAFT ENCASEMENT

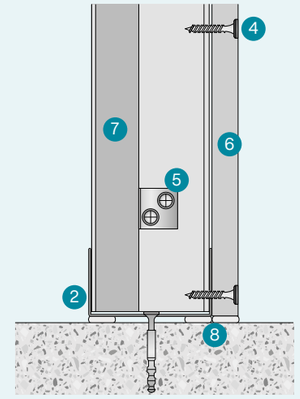
TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT – Fixed Head and base

SECTION VIEW

1. **TRADELINE** I Stud
2. **TRADELINE** Track suitably fixed @600mm max centres
3. CoreBoard fixed between I Studs
4. **TRADELINE** Drywall Screw
5. **TRADELINE** ASB62B Fixing Bracket
6. Plasterboard as specified
7. CoreBoard
8. **TRADELINE** Acoustic Intumescent Sealant



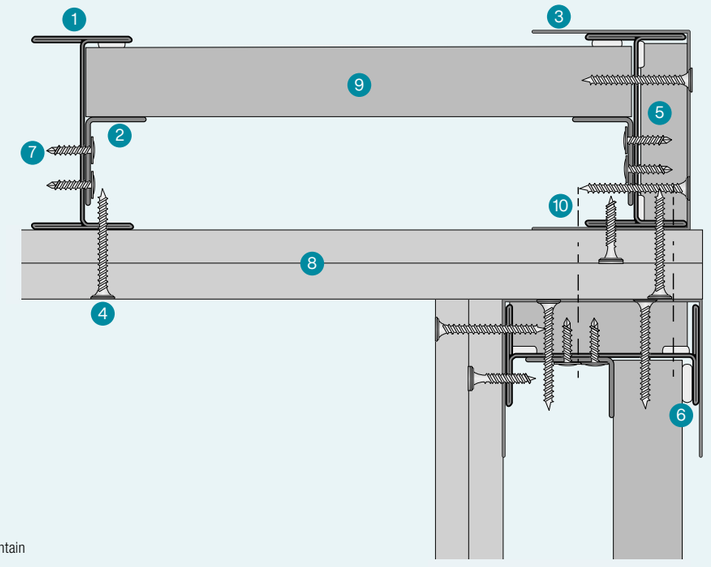


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE SHAFT ENCASEMENT – Internal Corner

PLAN VIEW

1. **TRADELINE** I Stud
2. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
3. **TRADELINE** Extra Deep Track suitably fixed to accommodate I Stud & CoreBoard
4. **TRADELINE** Drywall Screw
5. CoreBoard fixed between I Studs & Track
6. **TRADELINE** Acoustic Intumescent Sealant
7. **TRADELINE** Wafer Head Drywall Screws
8. Plasterboard as specified
9. CoreBoard
10. Screwfix Corners using appropriate drywall fixings

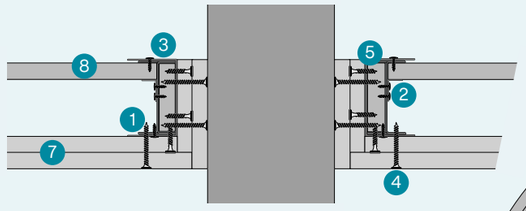


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

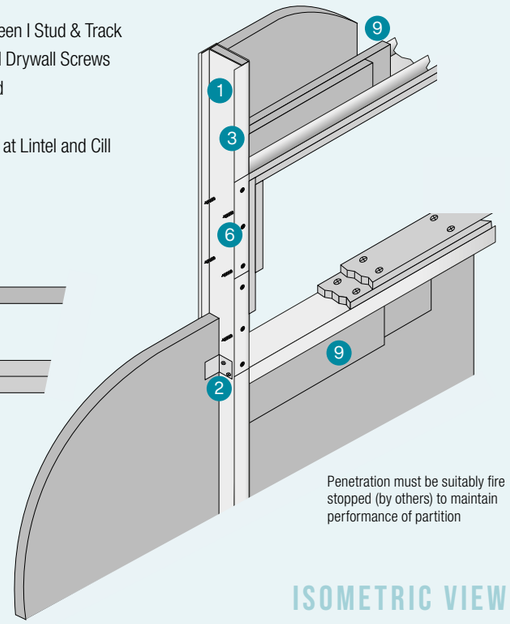
TRADELINE SHAFT ENCASEMENT

TRADELINE SHAFT ENCASEMENT - Letter Box Detail

1. **TRADELINE** I Stud
2. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
3. **TRADELINE** Extra Deep Track suitably fixed to accommodate I Stud & CoreBoard
4. **TRADELINE** Drywall Screw
5. CoreBoard fixed in-between I Stud & Track
6. **TRADELINE** Wafer Head Drywall Screws
7. Plasterboard as specified
8. CoreBoard
9. CoreBoard packers filled at Lintel and Cill



SECTION VIEW



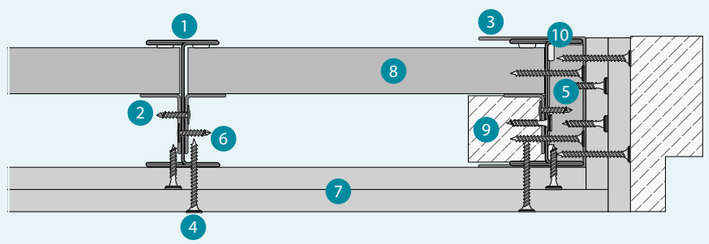
Penetration must be suitably fire stopped (by others) to maintain performance of partition

ISOMETRIC VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE SHAFT ENCASEMENT – Door Frame up to 60kg

1. **TRADELINE** I Stud
2. **TRADELINE** ASB62B Fixing Bracket fixed at max. 600mm vertical centres
3. **TRADELINE** Extra Deep Track to accommodate I Stud & CoreBoard
4. **TRADELINE** Drywall Screw
5. CoreBoard fixed between I Studs & Track
6. **TRADELINE** Wafer Head Drywall Screws
7. Plasterboard as specified
8. CoreBoard
9. Timber Batten for screw retention
10. **TRADELINE** Acoustic Intumescent Sealant



To be installed in conjunction with doorset manufacturer's recommendations.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

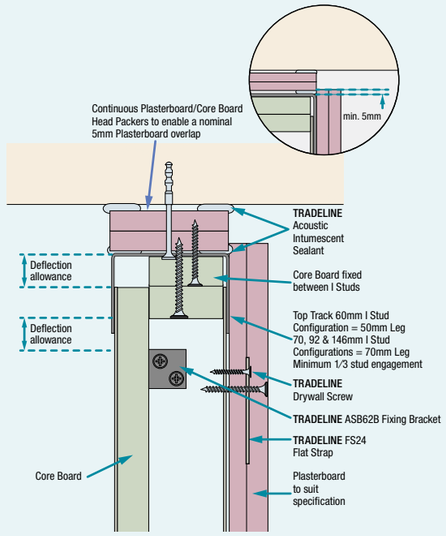
PLAN VIEW

TRADELINE PARTITIONING SYSTEMS INSTALLATION CHECKLIST

TRADELINE SHAFT ENCASEMENT SYSTEMS – COREBOARD HEADPACKERS

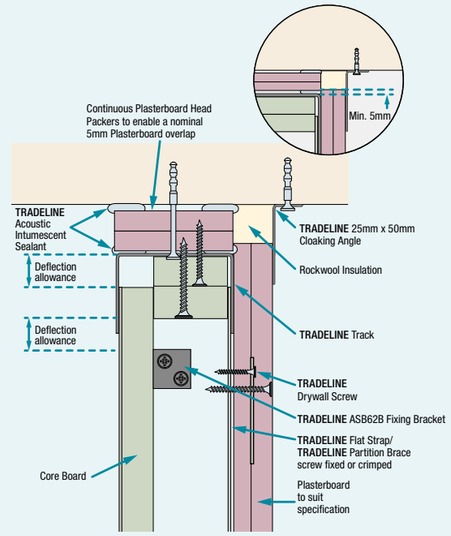
SHAFT ENCASEMENT DEFLECTION HEAD DETAILS

SHAFT ENCASEMENT
DEFLECTION HEAD UP TO 60 MINS FIRE RESISTANCE



To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SHAFT ENCASEMENT
DEFLECTION HEAD UP TO 120 MINS FIRE RESISTANCE



To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SHAFT ENCASEMENT FIXED HEAD DETAIL

For a Fixed Head Detail

It is important that the packers are 100mm deep, tight against the head track and that the packers fill the full width of the track.

Seal all board to metal abutments with **TRADELINE** Acoustic Intumescent Sealant.

Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

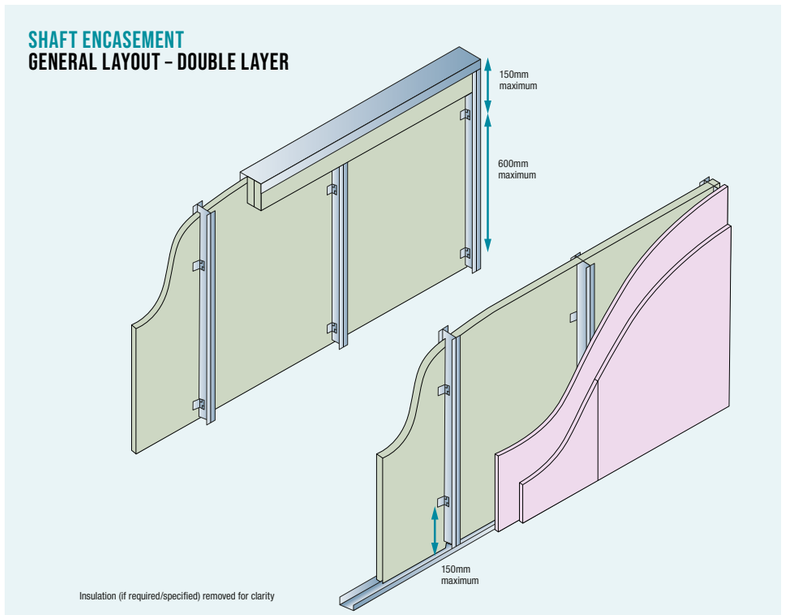
ENSURE ALL AIR GAPS HAVE BEEN SUITABLY SEALED USING TRADELINE ACOUSTIC INTUMESCENT SEALANT

ENSURE CORE BOARD PACKERS HAVE BEEN INSTALLED CORRECTLY

TRADELINE SHAFT ENCASEMENT SYSTEMS – RETAINING THE COREBOARD

CoreBoard is retained by using **TRADELINE** ASB62 Shaft Encasement Fixing Brackets which are fixed in at every 600mm centres using **TRADELINE** 13mm Wafer Head screws. Ensure that all metal abutments are sealed with **TRADELINE** Acoustic Intumescent Sealant.

Note:
First clip should be a maximum of 150mm from base & head of partition and at 600mm centres thereafter



ENSURE ALL AIR GAPS HAVE BEEN SUITABLY SEALED USING TRADELINE ACOUSTIC INTUMESCENT SEALANT

ENSURE SHAFT ENCASEMENT BRACKETS HAVE BEEN FIXED AT 600mm TO SECURE THE CORE BOARD

TRADELINE SHAFT ENCASEMENT SYSTEMS – HORIZONTAL COREBOARD JOINTS

Step 1:

Two beads of **TRADELINE** Acoustic Intumescent Sealant to be applied at the end of where both pieces of CoreBoard meet.

Step 2:

This will allow for the 100mm CoreBoard section to be applied ready for fixing.

Step 3:

Six **TRADELINE** Coarse Thread Screws will then need to be applied to securely fix the materials in place.

ENSURE ALL AIR GAPS HAVE BEEN SUITABLY SEALED USING TRADELINE ACOUSTIC INTUMESCENT SEALANT

ENSURE CoreBoard HAS BEEN SPLICED CORRECTLY

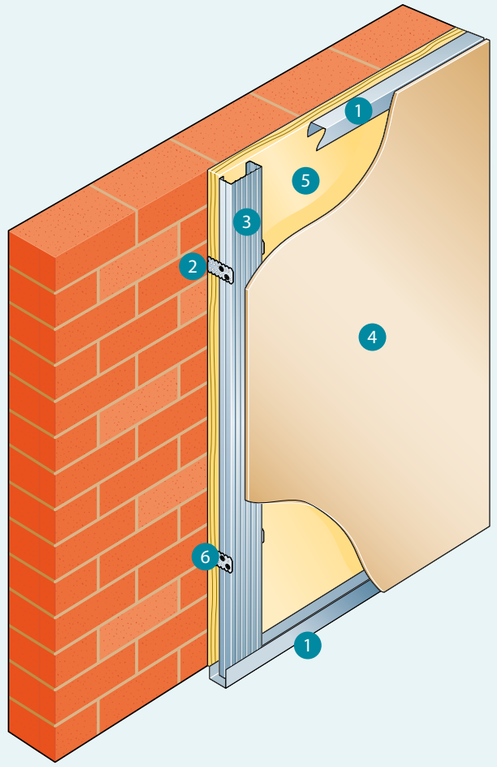
TRADELINE WALL LINING SYSTEMS

TRADELINE WALL LINER SYSTEM

TRADELINE Wall Liner system is a light weight, cost effective lining solution for external walls or uneven out of plumb substrates. It provides an accurate method of lining walls when compared to traditional methods such as timber battening. Dependent on plasterboard and insulation types, it can be used to improve thermal efficiency of external walls and sound insulation of existing substrates.

TRADELINE WALL LINER SYSTEM

1. **TRADELINE** Floor Perimeter Track TWL60 fixed at max. 600mm ctrs.
2. **TRADELINE** Fixing Bracket AWL03B, AWL04B or AWL08B suitably fixed at max. 800mm vertical ctrs.
3. **TRADELINE** Wall/Ceiling Liner TWL507 at max. 600mm ctrs.
4. Plasterboard as specified
5. Insulation (if required) as specified
6. **TRADELINE** Wafer Head Drywall Screw



Benefits

- Suitable for fixing all types of plasterboard
- Seamless surface that will receive most decorative finishes
- Creates a void above the ceiling for services, mineral wool can be incorporated for thermal or acoustic insulation
- Easy to cut to length using tin snips
- Fits easily together

METAL

TRADELINE Perimeter Track page 180

TRADELINE Wall Liner Stud page 179

METAL ACCESSORIES

TRADELINE Wall Liner Bracket AWL03B, AWL04B. AWL08B page 180

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

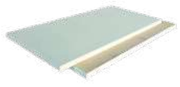
FINISHINGS

TRADELINE Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

TRADELINE Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187



Plasterboard

Insulation

TRADELINE WALL LINING SYSTEMS

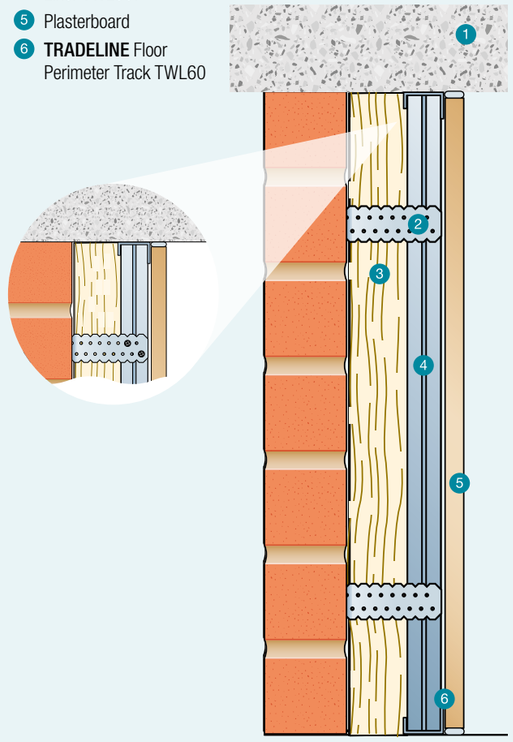
TRADELINE WALL LINER SYSTEM

TRADELINE Wall Liner system can be used to conceal various services within its cavity. Cavities are measured from the substrate to the rear of the plasterboard lining and can range from as little as 25mm up to 180mm.

TRADELINE Wall Liner System

By replacing the wet trade alternative, this quality system offers practical, cost-effective lining to meet the needs of fast-track building methods. It also has a low thermal capacity with a crack-resistant surface so paint or ceramic tiles can be applied directly. Compatible with all partition and suspended ceiling systems, wall liner can be used with a range of Gypsum plasterboards and thermal laminates to line brick, block and concrete walls that are dry and protected within the building envelope.

1. Soffit
2. **TRADELINE** Fixing Bracket AWL03/04/08B suitably fixed
3. Insulation (if required)
4. **TRADELINE** Wall/Ceiling Liner TWL507
5. Plasterboard
6. **TRADELINE** Floor Perimeter Track TWL60



SECTION VIEW

Construction

Establish the depth of the cavity and fix **TRADELINE** Wall Liner track at 600mm centres to the floor and ceiling with the shallow leg towards the wall. At every 800mm vertical centres, suitably fix **TRADELINE** Wall Liner brackets to the wall structure.

Cut **TRADELINE** Wall Liner Section to length and slot it into the top and bottom track, position at nominal 600mm centres. Adjust brackets to suit board tolerances before final tightening, then fix with self-drilling screws to the side of the **TRADELINE** Wall Liner Section. If a bracket protrudes beyond the face, simply bend the overhang over. Fix plasterboard using correct length drywall screws.

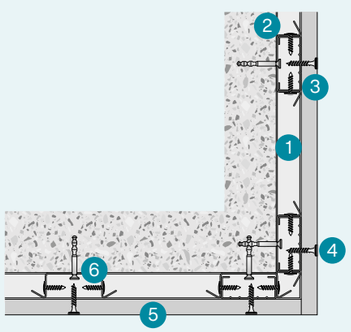
Fixtures

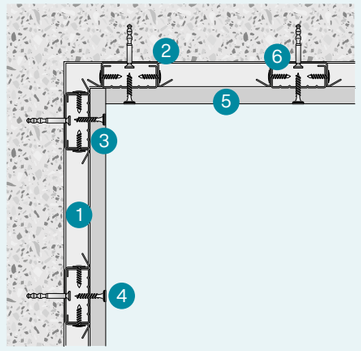
TRADELINE Wall Liner system is capable of supporting medium or heavy loads, refer to pattressing details further on within this section.

TRADELINE WALL LINER SYSTEM

TRADELINE WALL LINER – Corner Details

1. **TRADELINE** Floor Perimeter Track TWL60
2. **TRADELINE** Fixing Bracket AWL03B, AWL04B or AWL08B suitably fixed
3. **TRADELINE** Wall/Ceiling Liner TWL507
4. **TRADELINE** Drywall Screw
5. Plasterboard as specified
6. **TRADELINE** Wafer Head Drywall Screw



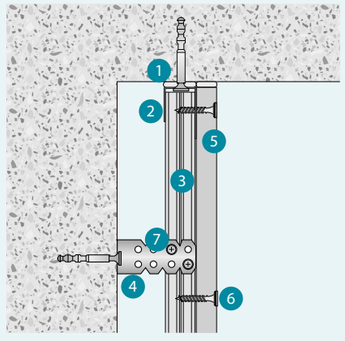


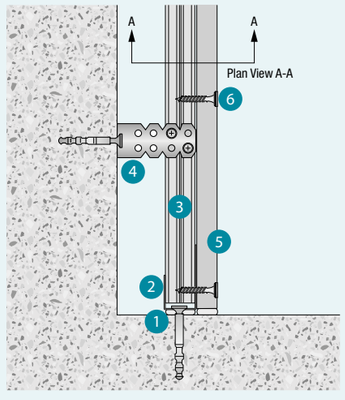
PLAN VIEW

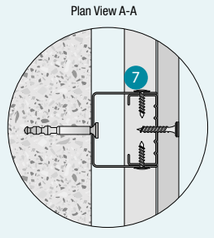
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE WALL LINER – Head Floor and Bracket Details

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Perimeter Track TWL60 suitably fixed @ 600mm max centres
3. **TRADELINE** Wall/Ceiling Liner TWL507 at max. 600mm ctrs.
4. **TRADELINE** Fixing Bracket AWL03B, AWL04B or AWL08B suitably fixed at max. 800mm vertical ctrs.
5. Plasterboard as specified
6. **TRADELINE** Drywall Screw
7. **TRADELINE** Wafer Head Drywall Screw







SECTION VIEW

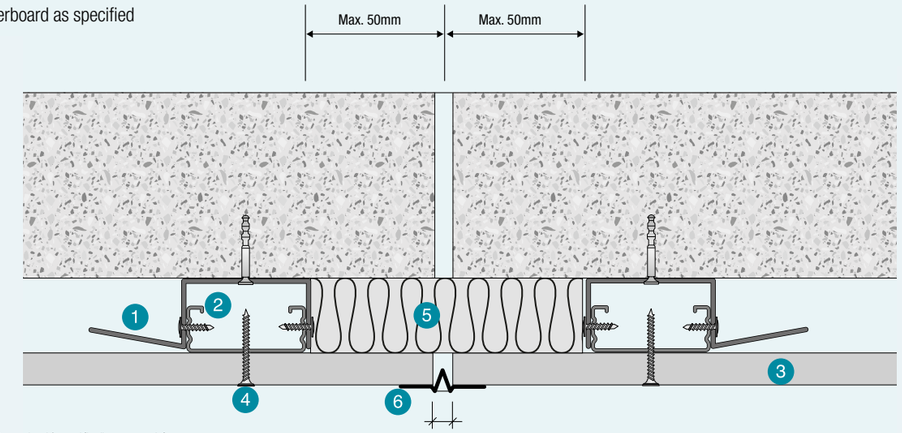
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

LINING SYSTEMS | TRADELINE WALL LINER SYSTEM

TRADELINE WALL LINER SYSTEM

TRADELINE WALL LINER – Movement Control Joint

1. **TRADELINE** Fixing Bracket AWL038, AWL04B or AWL08B suitably fixed
2. **TRADELINE** Wall/Ceiling Liner TWL507
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. Suitable fire stopping insulation
6. Movement Control Joint



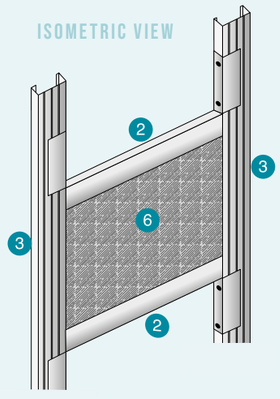
PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

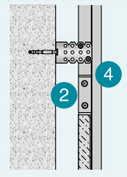
TRADELINE WALL LINER – Pattressing Detail

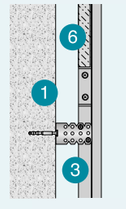
1. **TRADELINE** Fixing Bracket AWL038, AWL04B or AWL08B suitably fixed @800mm ctrs
2. **TRADELINE** Perimeter Track snipped and bent on either side and fixed to Wall Liner Channel above and below Plywood
3. **TRADELINE** Wall Liner Channel TWL507
4. Plasterboard as specified
5. **TRADELINE** Drywall Screw
6. Plywood pattress

ISOMETRIC VIEW

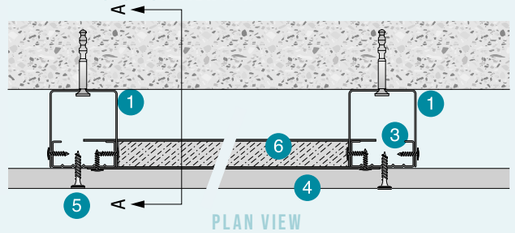


SECTION VIEW A-A





SECTION VIEW A-A



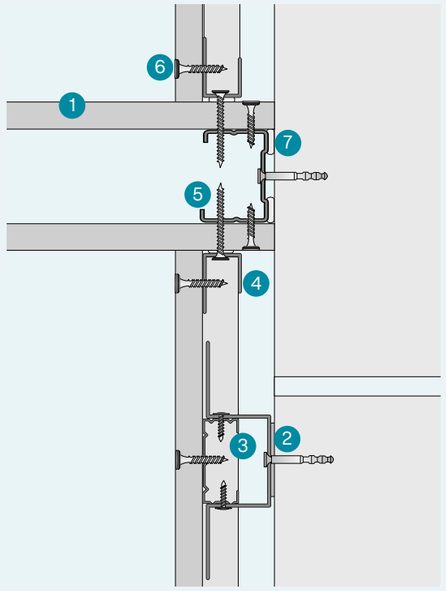
PLAN VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE WALL LINER SYSTEM

TRADELINE WALL LINER – Junction with Partition

1. Plasterboard as specified
2. **TRADELINE** Fixing Bracket AWL038, AWL04B or AWL08B suitably fixed @800mm ctrs
3. **TRADELINE** Wall Liner Channel TWL507
4. **TRADELINE** Perimeter Track TWL60 fixed through to the partition stud at 600mm ctrs
5. **TRADELINE** C Stud fixed to the substrate with suitable fixings at 600mm ctrs
6. **TRADELINE** Drywall Screw
7. **TRADELINE** Acoustic Intumescent Sealant



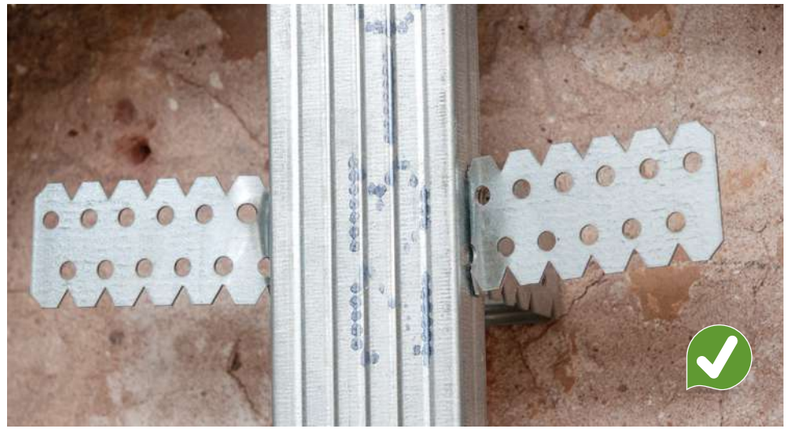
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

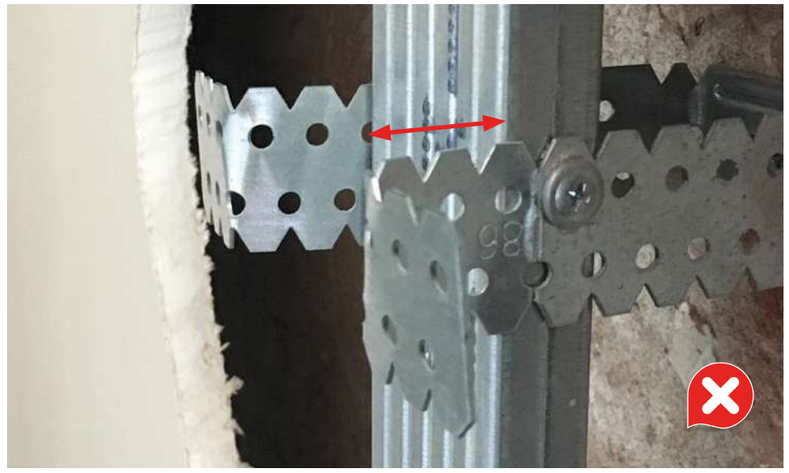
TRADELINE WALL LINING SYSTEMS INSTALLATION CHECKLIST

TRADELINE WALL LINER SYSTEMS

Establish the depth of the cavity and fix **TRADELINE** TWL60 Wall Liner Track at 600mm centres to the floor and soffit with the shallow leg towards the wall. Fix **TRADELINE** brackets – AWL03, AWL04 or AWL08 – to the wall at a maximum of 800mm centres. Secure each leg of the bracket to the **TRADELINE** TWL507 wall channel using one **TRADELINE** Wafer Head Screw each side of the section.



Ensure that the legs of the wall liner brackets are bent back so they do not protrude the stud face, this way the plasterboard can be offered up to the stud to sit flush with the framework



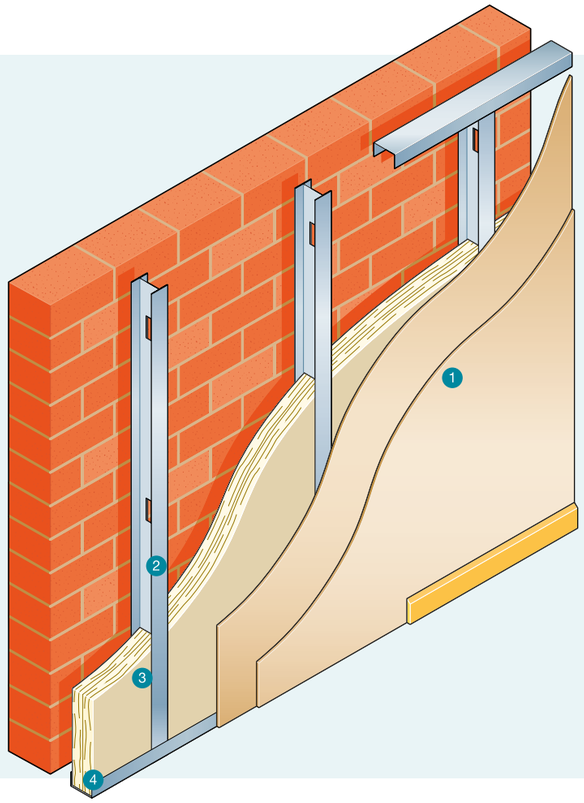
TRADELINE WALL LINING SYSTEMS

TRADELINE INDEPENDENT WALL LINING SYSTEM

TRADELINE Independent Wall Lining system is a light weight, cost effective lining solution for external walls or uneven out of plumb substrates. The system is totally independent of the background and provides an accurate method of lining walls when compared to traditional methods. Dependent on plasterboard and insulation types, it can be used to improve thermal efficiency of external walls and sound insulation of existing substrates. Services can easily be incorporated within the systems cavity which is fully variable and has no limitations. It should not be used to conceal areas of damp, this must be appropriately treated prior to system installation.

TRADELINE INDEPENDENT WALL LINING

1. Plasterboards
2. **TRADELINE** I Stud
3. Insulation if required
4. **TRADELINE** Track



Benefits

- The systems allow space for services, and for high levels of thermal and acoustic insulation
- Range of I Stud widths of 50mm, 60mm, 70mm, 92mm & 146mm to accommodate a range of height requirements
- A maximum height without bracing of 7.2m (146 stud) can be achieved
- Suitable for fixing all types of plasterboard
- Free-standing from masonry to allow for services
- I Stud holds insulation well – ready made holder
- Sight line for easy installation of board panels
- Bracing to the structure not required unless due to tiling requirements

METAL

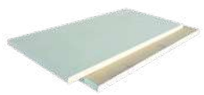
TRADELINE Track page 174

TRADELINE I Stud page 176

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184



Plasterboard

FINISHINGS

TRADELINE Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

TRADELINE Ready Mixed Joint Compound page 187

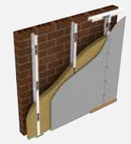
TRADELINE Acoustic Intumescent Sealant page 187

Insulation

SYSTEM PERFORMANCE TABLE

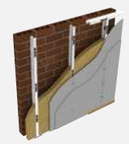
TRADELINE INDEPENDENT WALL LINING SYSTEM MAXIMUM HEIGHTS

Detail A



One layer of plasterboard to room side of **TRADELINE** I Stud
Insulation as specified

Detail B



Double layers of plasterboard to room side of **TRADELINE** I Stud
Insulation as specified

TRADELINE Independent Wall Liner

TRADELINE I Stud clad one side only	Max Height (metres) Studs @ 600mm Centres L/240 @ 200 Pa	Max Height (metres) Studs @ 400mm Centres L/240 @ 200 Pa	Nominal Width (mm) Excluding Finishes
50mm TRADELINE I Stud			
Single Layer Configurations	**Detail A**	**Detail A**	
1 x 12.5mm Plasterboard	2.4	2.7	64.5
1 x 15mm Plasterboard	2.4	2.7	67
Double Layer Configurations	**Detail A**	**Detail B**	
2 x 12.5mm Plasterboard	2.7	3.3	77
2 x 15mm Plasterboard	2.7	3.3	82
60mm TRADELINE I Stud			
Single Layer Configurations	**Detail A**	**Detail A**	
1 x 12.5mm Plasterboard	2.7	3	74.5
1 x 15mm Plasterboard	2.7	3	77
Double Layer Configurations	**Detail A**	**Detail B**	
2 x 12.5mm Plasterboard	3.3	3.9	87
2 x 15mm Plasterboard	3.3	3.9	92
70mm TRADELINE I Stud			
Single Layer Configurations	**Detail A**	**Detail A**	
1 x 12.5mm Plasterboard	3	3.3	84.5
1 x 15mm Plasterboard	3	3.3	87
Double Layer Configurations	**Detail B**	**Detail B**	
2 x 12.5mm Plasterboard	3.9	4.5	97
2 x 15mm Plasterboard	3.9	4.5	102
92mm TRADELINE I Stud			
Single Layer Configurations	**Detail A**	**Detail A**	
1 x 12.5mm Plasterboard	4.5	4.8	106.5
1 x 15mm Plasterboard	4.5	4.8	109
Double Layer Configurations	**Detail A**	**Detail B**	
2 x 12.5mm Plasterboard	5.4	6	119
2 x 15mm Plasterboard	5.4	6	124
146mm TRADELINE I Stud			
Single Layer Configurations	**Detail A**	**Detail A**	
1 x 12.5mm Plasterboard	6.9	7.2	160.5
1 x 15mm Plasterboard	6.9	7.2	163
Double Layer Configurations	**Detail B**	**Detail B**	
2 x 12.5mm Plasterboard	7.2	7.8	173
2 x 15mm Plasterboard	7.2	7.8	178

Independent Wall Lining System - Fire Performance

Board Thickness	Valid Board Brand & Type	I Stud width (mm)	Fire Performance to BS 476-22:1987	
			Insulation (mins)	Integrity (mins)
2 x 15mm	British Gypsum Gyproc FireLine Siniat Fire Board Knauf Fire Panel	50 / 60 / 70 / 92 / 146	30	60
2 x 15mm			30	60
2 x 15mm			30	60

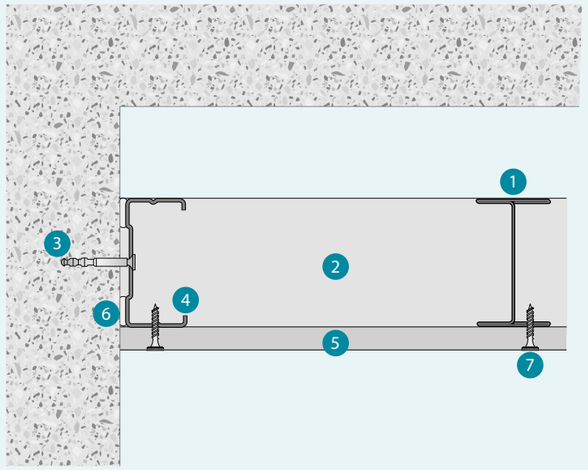
Based on the substrate behind the lining being masonary / brick slip system / profiled steel sheeting / insuated render system

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply Tradeline Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING – Wall Abutment

1. **TRADELINE** I Stud fixed at 600mm ctrs.
2. **TRADELINE** Track (Head track removed for clarity)
3. Suitable Fixings @ max 600mm centres
4. **TRADELINE** C Stud suitably fixed @ max 600mm centres
5. Plasterboard as specified
6. **TRADELINE** Acoustic Intumescent Sealant
7. **TRADELINE** Drywall Screw

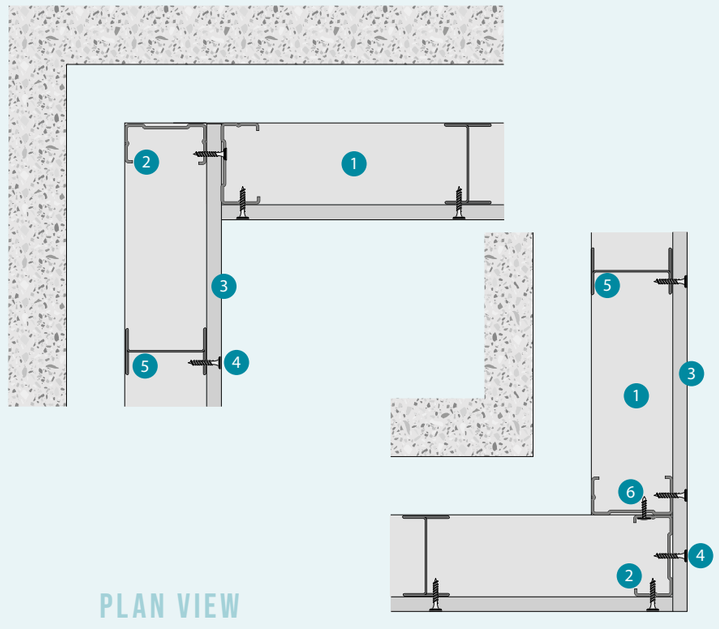


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE INDEPENDENT I STUD WALL LINING – Corner Details

1. **TRADELINE** Track (Head track removed for clarity)
2. **TRADELINE** C Studs at corners
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. **TRADELINE** I Stud
6. **TRADELINE** Wafer Head Drywall Screws



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

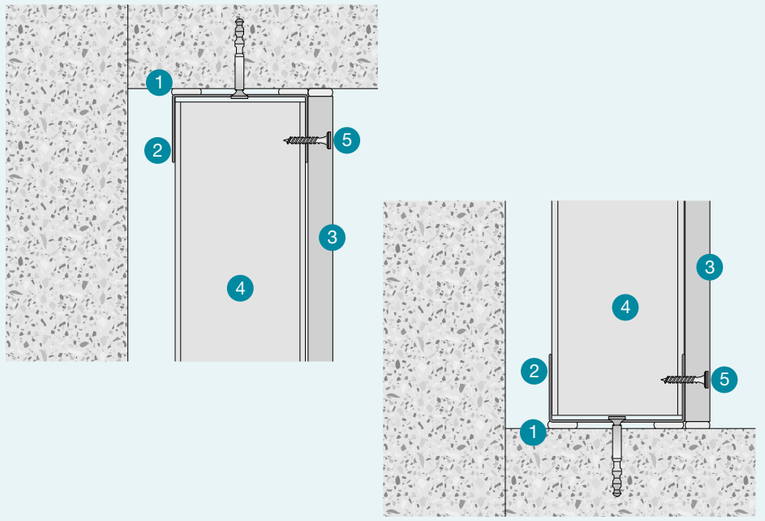
PLAN VIEW

HOW TO BUILD | TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING – Head and Floor Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Track suitably fixed @ max 600mm centres
3. Plasterboard as specified
4. **TRADELINE** I Stud fixed at max. 600mm ctrs
5. **TRADELINE** Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

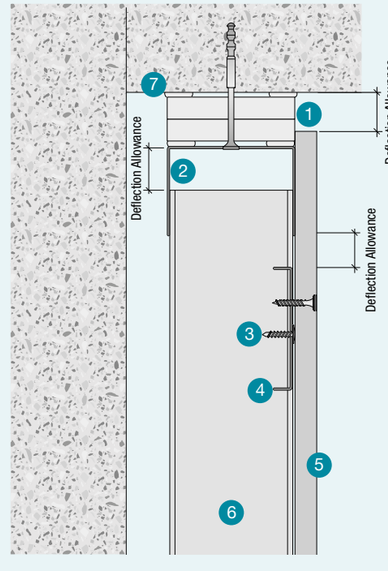
TRADELINE INDEPENDENT I STUD WALL LINING – Deflection Head Detail

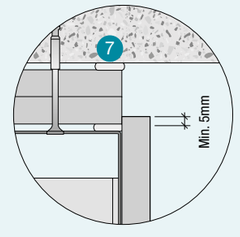
1. Continuous fire rated plasterboard head packers to enable a nominal 5mm plasterboard overlap
2. **TRADELINE** Deep Track suitably fixed @ 600mm max
3. **TRADELINE** Wafer Head Drywall Screws
4. **TRADELINE** Partition Brace/Flat Strap
5. Plasterboard as specified
6. **TRADELINE** I Stud
7. **TRADELINE** Acoustic Intumescent Sealant

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION

SECTION VIEW





Deflection Head - Head Track and Packer board guidance

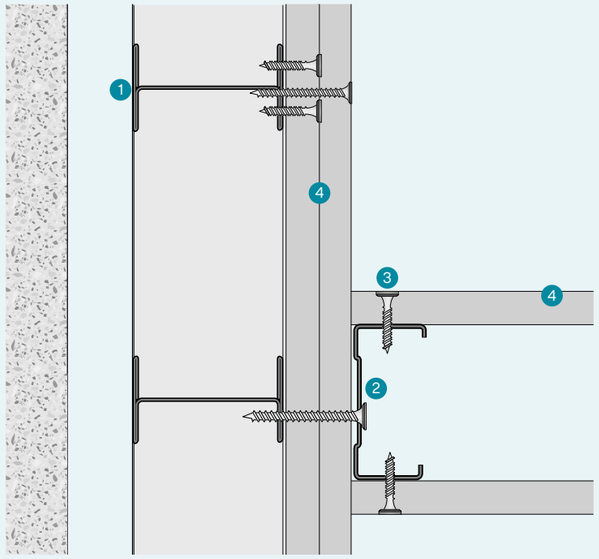
Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board. This can also be achieved for deflections of up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm TRADELINE acoustic intumescent sealant to the underside of the soffit.

TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING – Partition Junction

1. **TRADELINE** I Stud
2. Align I Stud to line with Partition C Stud and fix at max. 600mm ctrs
3. **TRADELINE** Drywall Screw
4. Plasterboard as specified

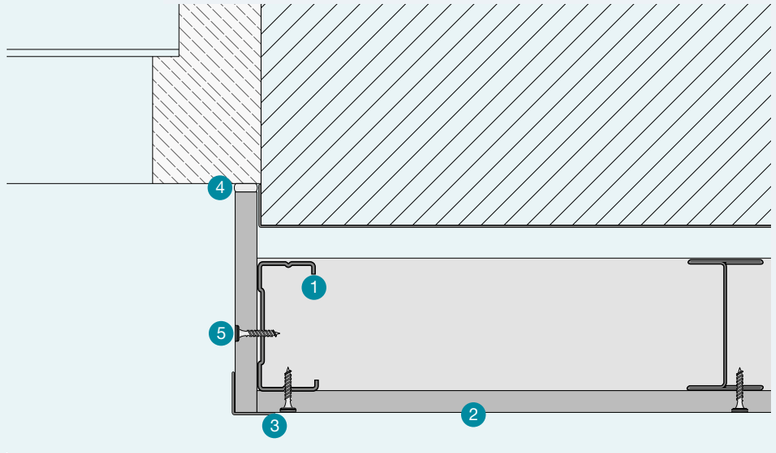


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE INDEPENDENT I STUD WALL LINING – Jamb Detail

1. **TRADELINE** C Stud as Jamb Stud
2. Plasterboard as specified
3. **TRADELINE** Flexible Metal Corner Tape
4. **TRADELINE** Acoustic Intumescent Sealant
5. **TRADELINE** Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

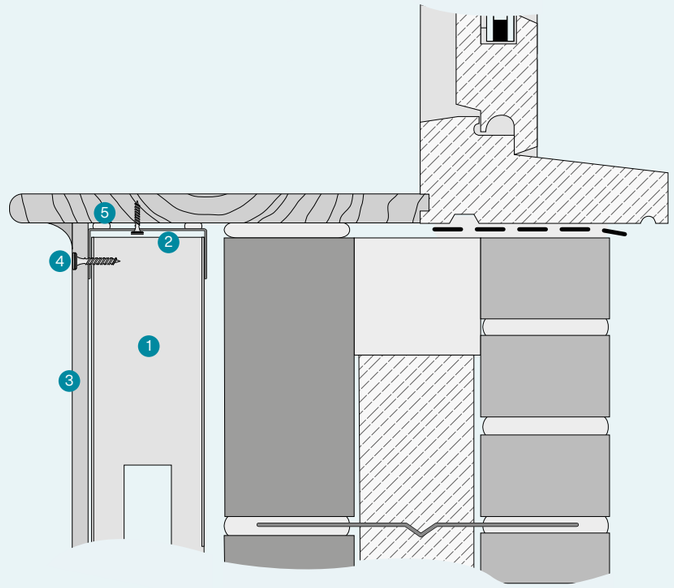
PLAN VIEW

HOW TO BUILD | TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING – Reveal Cill

1. **TRADELINE** I Stud
2. **TRADELINE** Track fixed under the cill board
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Acoustic Intumescent Sealant

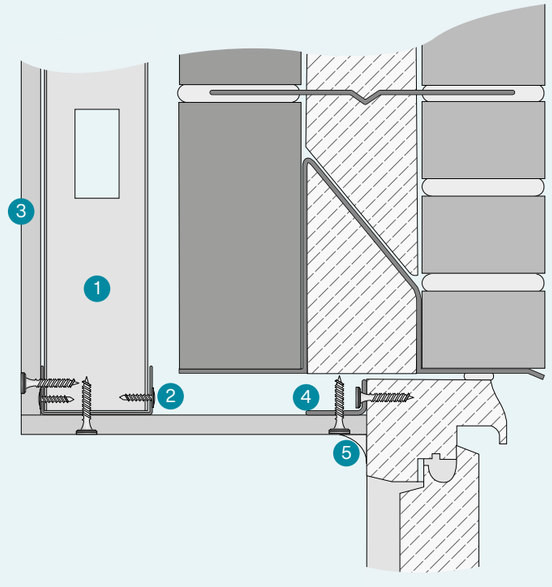


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE INDEPENDENT I STUD WALL LINING – Reveal Head

1. **TRADELINE** I Stud
2. **TRADELINE** Track snipped and bent at either ends and screw fixed to C Stud to form lintel
3. Plasterboard as specified
4. **TRADELINE** Angle to suit the depth
5. **TRADELINE** Acoustic Intumescent Sealant



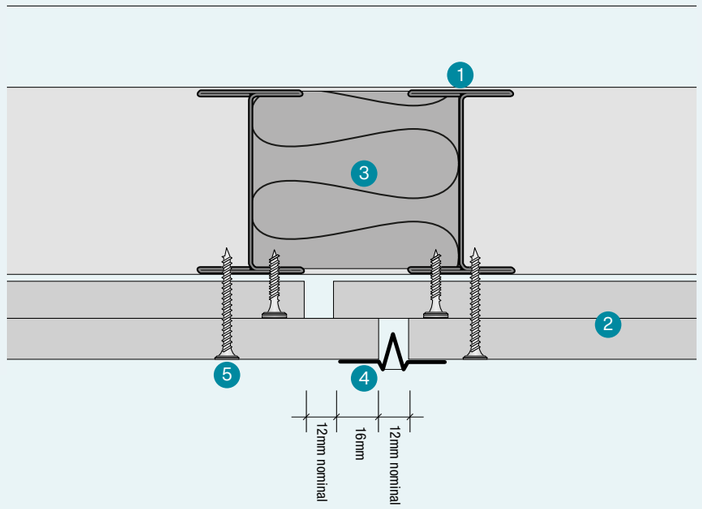
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE INDEPENDENT I STUD WALL LINING

TRADELINE INDEPENDENT I STUD WALL LINING – Movement Control Joint - Double Board

1. **TRADELINE** I Stud
2. Plasterboard as specified
3. Suitable fire stopping insulation
4. Movement Control Joint
5. **TRADELINE** Drywall Screw
6. Plasterboard to suit performance fixed back to stud



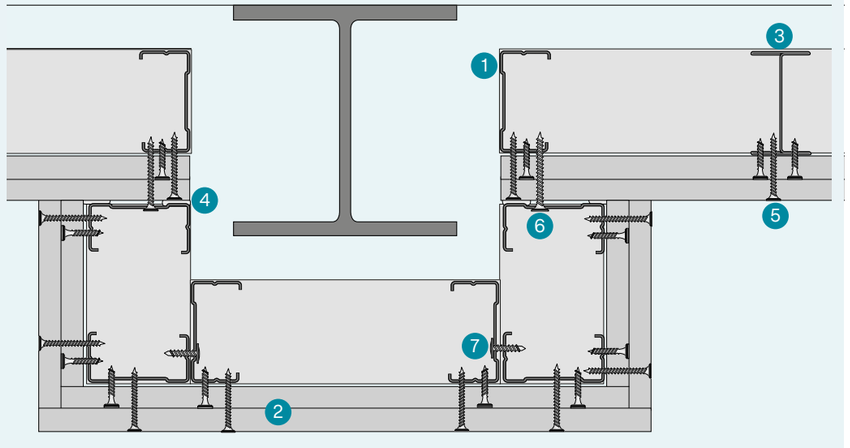
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE INDEPENDENT I STUD WALL LINING – Lining around steel column

1. **TRADELINE** C Stud as end studs
2. Plasterboard as specified
3. **TRADELINE** I Stud
4. **TRADELINE** Acoustic Intumescent Sealant
5. **TRADELINE** Drywall Screw
6. **TRADELINE** C Stud fixed back to the stud behind
7. **TRADELINE** Wafer Head Drywall Screw

Note: Fire Protection for Structural steel to be provided independently from lining.



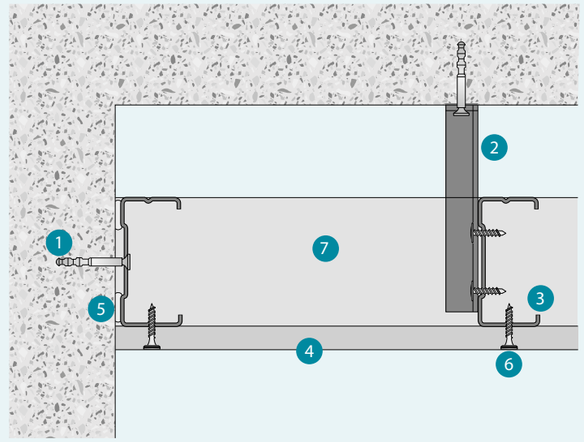
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE BRACED C STUD WALL LINING

TRADELINE BRACED C STUD WALL LINING – Wall Abutment Detail

1. Suitable Fixings @ max 600mm centres
2. **TRADELINE** Brace (every 1200mm) suitably fixed
3. **TRADELINE** Stud
4. Plasterboard as specified
5. **TRADELINE** Acoustic Intumescent Sealant
6. **TRADELINE** Drywall Screw
7. **TRADELINE** Track (Head track removed for clarity)

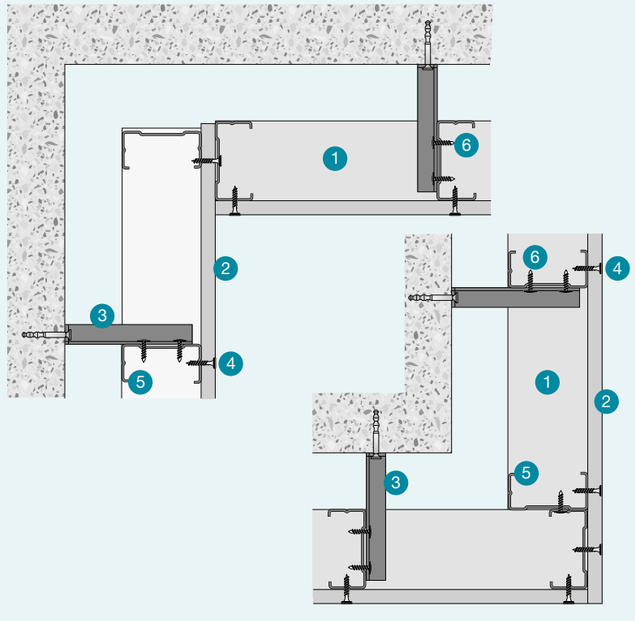


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE BRACED C STUD WALL LINING – Corner Detail (Internal & External)

1. **TRADELINE** Track (Head track removed for clarity)
2. Plasterboard as specified
3. **TRADELINE** Brace (every 1200mm) suitably fixed
4. **TRADELINE** Drywall Screw
5. **TRADELINE** C Stud
6. **TRADELINE** Wafer Head Drywall Screw



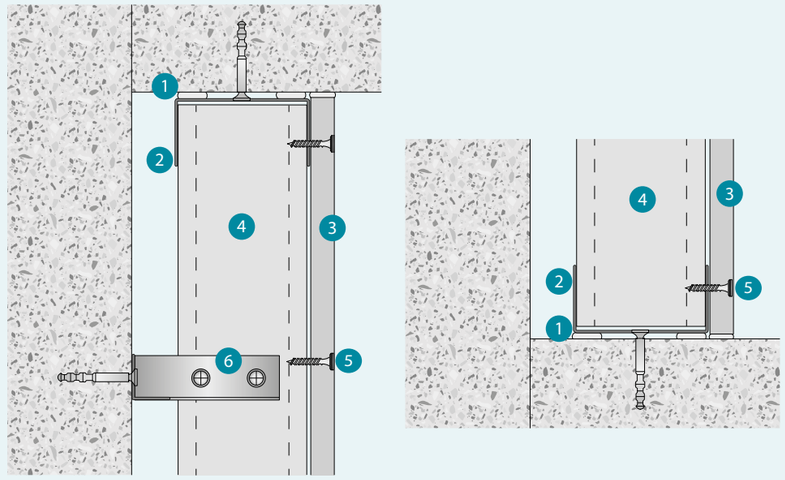
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

PLAN VIEW

TRADELINE BRACED C STUD WALL LINING

TRADELINE BRACED C STUD WALL LINING – Head and Base Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Track suitably fixed @ max 600mm centres
3. Plasterboard as specified
4. **TRADELINE** C Stud
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Brace (every 1200mm) suitably fixed



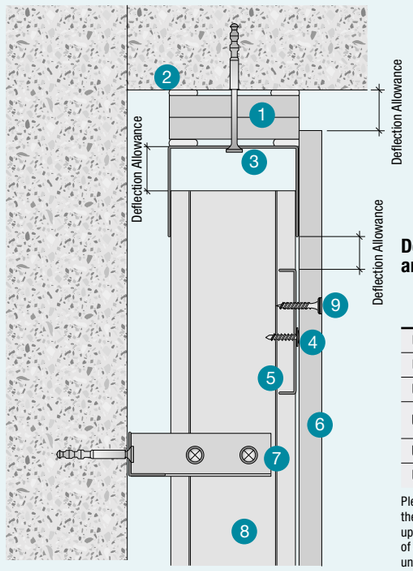
SECTION VIEW

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

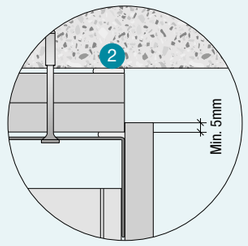
TRADELINE BRACED C STUD WALL LINING – Deflection Head Detail

1. Continuous allowable plasterboard head packers to enable a minimum 5mm plasterboard overlap
2. **TRADELINE** Acoustic Intumescent Sealant
3. **TRADELINE** Track suitably fixed @ max 600mm centres
4. **TRADELINE** Wafer Head Drywall Screw
5. **TRADELINE** Partition Brace/ Flat Strap
6. Plasterboard as specified
7. **TRADELINE** Brace (every 1200mm) suitably fixed
8. **TRADELINE** C Stud
9. **TRADELINE** Drywall Screw

DO NOT SCREW FIX THE PLASTERBOARD TO THE STUD OR TRACK ABOVE THE FLAT STRAP/PARTITION BRACE TO ALLOW FOR DEFLECTION



SECTION VIEW



Deflection Head - Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

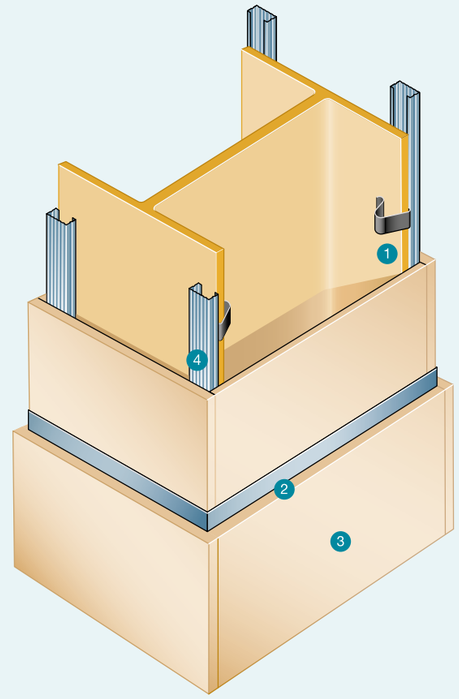
Please ensure that the facing board overlaps min. 5mm with the packer board. This can also be achieved with deflections up to 15mm with 1 layer of 19mm CoreBoard in the presence of at least 1mm Tradeline acoustic intumescent sealant to the underside of the soffit.

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE COLUMN AND BEAM ENCASEMENT SYSTEM

A high performance fire protection system to enclose structural I type columns and beams. TRADELINE column and beam encasement system provides fire protection of up to 120 minutes.

1. **TRADELINE** Steel Framing Clips AWL10B spaced at 800mm centres
2. **TRADELINE** Flat Strap behind all horizontal board joints
3. 15mm Fire resistant plasterboard as specified
4. **TRADELINE** Wall/Ceiling Liner TWL507



Construction

4 Sided Column & Beam Encasement

Steel Framing clips are friction fitted to the column or beams flanges at maximum 800mm centres. Wall/Ceiling Liner is located over the clips to encase the column or beam. Fire Resistant plasterboard is fixed to the outside of the metal framework.

3 Sided Column & Beam Encasement

Steel angle 25mm x 25mm x 90mm degree is located to both sides of the wall/soffit flange and secured at 600mm centres using suitable fixings. Steel Framing clips are friction fitted to the other 2 column of beam flanges at maximum 800mm centres. Wall/Ceiling Liner is located over the clips to encase the column or beam. Fire Resistant plasterboard is fixed to the outside of the metal framework.

Board Installation

All layers of specified, fire resistant plasterboard must be fixed at 300mm maximum centres to the framework using the appropriate length of screw with board joints staggered between layers. Partition Brace or Flat strip must be used behind any horizontal join in the plasterboard. Where the column or beam web flange dimensions exceed 600mm additional support will be required for the plasterboard.

Board Installation

This system has been tested for up to 120 minutes fire protection to the steel column or beam. For advice on the combination of fire resistant plasterboard needed to achieve the required fire protection please contact our Technical Team. To determine the fire protection required the width, depth and weight of the column or beam will be requested along with the type of construction being built i.e. 3 sided or 4 sided. Must be used with double layered 15mm British Gypsum FireLine plasterboard.

METAL

TRADELINE Wall/Ceiling Liner page 179

METAL ACCESSORIES

TRADELINE Steel Frame Clip page 179

TRADELINE 38mm Channel Connectors page 179

TRADELINE Angle page 179

TRADELINE Bracing Strip page 179

TRADELINE Perforated Partition Brace page 179

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

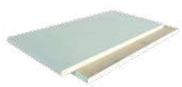
FINISHINGS

TRADELINE Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

TRADELINE Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187

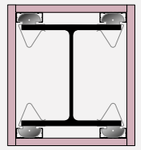


Plasterboard

SYSTEM PERFORMANCE TABLE

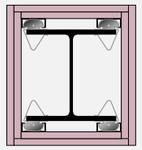
TRADELINE COLUMN & BEAM ENCASEMENT

Detail A



One layer of plasterboard to room side of **TRADELINE** I Stud
Insulation as specified

Detail B

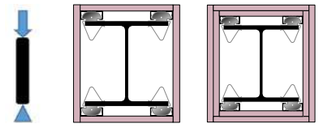


Double layers of plasterboard to room side of **TRADELINE** I Stud
Insulation as specified

TRADELINE Column & Beam Encasement

Universal Column (UC) sections subjected to four sided fire exposure under compression

	Fire Resistance category R, (mins) @ 550° C				Plasterboard Thickness	Valid Board Brand & Type
	30	60	90	120		
Section Factor (Ap/V) (m-1)	"210 - 90 85 - 50 45 - 20"	"85 - 50 45 - 20"	45 - 20	-	1 x 15mm	Siniat GTEC Fire Board British Gypsum Gyproc FireLine Knauf Fire Panel
	"210-135 125-85 80-20"	"210-135 125-85 80-20"	"125-85 80-20"	80-20	2 x 15mm	

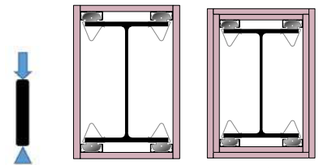


Plan View

Example of Use
A Universal Column 305mm x 305mm x 137kg/m has a section factor A/v (Hp/A) of 70m-1 (based on 4 sided exposure). For 60 minutes protection a single layer of 15mm board is required, with 2 x 15mm giving 120 minutes protection.

Universal Beam (UB) sections subjected to four sided fire exposure under compression

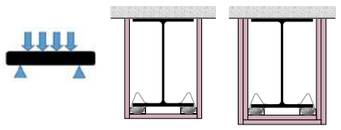
	Fire Resistance category R, (mins) @ 550° C				Plasterboard Thickness	Valid Board Brand & Type
	30	60	90	120		
Section Factor (Ap/V) (m-1)	"255 - 95 90 - 55 50 - 4"	"90 - 55 50 - 4"	50 - 4	-	1 x 15mm	Siniat GTEC Fire Board British Gypsum Gyproc FireLine Knauf Fire Panel
	"255 - 130 125 - 80 75 - 45"	"255 - 130 125 - 80 75 - 45"	"125 - 80 75 - 45"	75 - 45	2 x 15mm	



Plan View

Universal Beam (UB) sections subjected to three sided fire exposure under flexural load

	Fire Resistance category R, (mins) @ 620° C				Plasterboard Thickness	Valid Board Brand & Type
	30	60	90	120		
Section Factor (Ap/V) (m-1)	"225 - 125 120 - 70 65 - 40"	"120 - 70 65 - 40"	65 - 40	-	1 x 15mm	Siniat GTEC Fire Board British Gypsum Gyproc FireLine Knauf Fire Panel
	"225 - 175 170 - 105 100 - 40"	"225 - 175 170 - 105 100 - 40"	"170 - 105 100 - 40"	100 - 40	2 x 15mm	

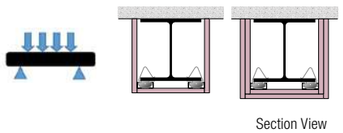


Section View

Example of Use
A Universal Beam 533mm x 210mm x 109kg/m has a section factor A/v (Hp/A) of 95m-1 (based on 3 sided exposure). For 60 minutes protection a single layer of 15mm board is required, with 2 x 15mm giving 120 minutes protection.

Universal Column (UC) sections subjected to three sided fire exposure under flexural load

	Fire Resistance category R, (mins) @ 620° C				Plasterboard Thickness	Valid Board Brand & Type
	30	60	90	120		
Section Factor (Ap/V) (m-1)	"155 - 120 105 - 70 65 - 15"	"105 - 70 65 - 15"	65 - 15	-	1 x 15mm	Siniat GTEC Fire Board British Gypsum Gyproc FireLine Knauf Fire Panel
	" 155 - 120 105 - 15"	" 155 - 120 105 - 15"	" 155 - 120 105 - 15"	105 - 15	2 x 15mm	



Section View

Important Information

Performances derived from assessment based on the calculation method in accordance with equation 4.2.7 from BS EN 1993-1-2 to calculate the temperature rise of steel sections insulated by fire protection material and actual fire tests to BS 476-21:1987 carried out at UKAS accredited test Laboratories. Further validated by numerical validation method (FEA). BRE Documents P119630-1000 Issue 1 & P119630-1000 Issue1.1 apply.

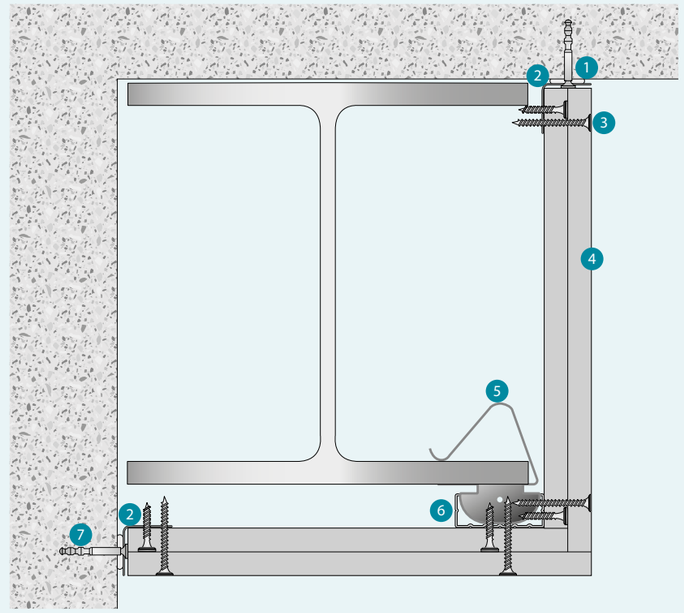
When the size of the column and / or beam exceeds the plasterboard fixing centres specified additional WL507 noggins are to be introduced to enable correct centres to be observed.

FS24 required behind all plasterboard joints.

TRADELINE COLUMN AND BEAM ENCASEMENT

TRADELINE COLUMN AND BEAM ENCASEMENT – Double Layer – 2 Sided Detail

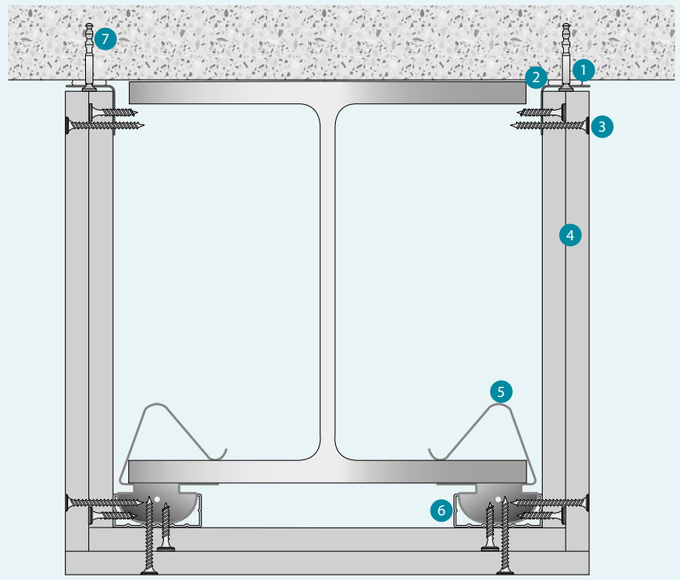
1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Angle 25 x 25 TSL06
3. **TRADELINE** Drywall Screws
4. 15mm Fire Resistant Plasterboard as specified
5. **TRADELINE** Steel Framing Clips AWL10B
6. **TRADELINE** Wall/Ceiling Liner TWL507
7. Suitable Fixings @ max 600mm centres



Up to 120 minutes fire protection (Dependent on Section Factor A/V (Hp/A)
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE COLUMN AND BEAM ENCASEMENT – Double Layer – 3 Sided Detail

1. **TRADELINE** Acoustic Intumescent Sealant
2. **TRADELINE** Angle 25 x 25 TSL06
3. **TRADELINE** Drywall Screws
4. 15mm Fire Resistant Plasterboard as specified
5. **TRADELINE** Steel Framing Clips AWL10B
6. **TRADELINE** Wall/Ceiling Liner TWL507
7. Suitable Fixings @ max 600mm centres

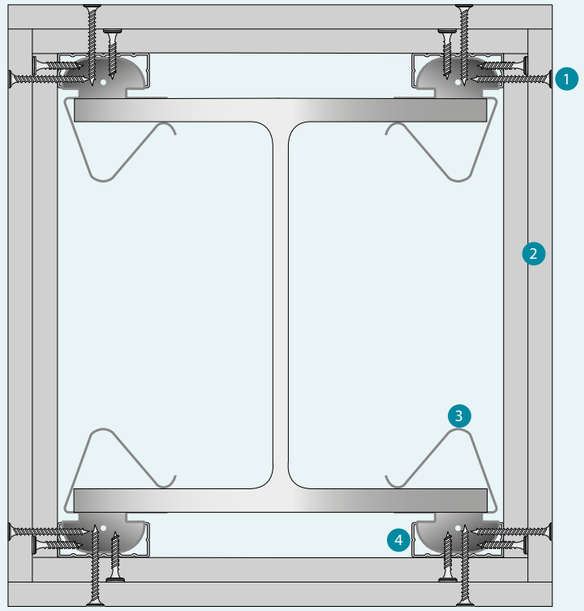


Up to 120 minutes fire protection (Dependent on Section Factor A/V (Hp/A)
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE COLUMN AND BEAM ENCASEMENT

TRADELINE COLUMN AND BEAM ENCASEMENT – Double Layer – 4 Sided Detail

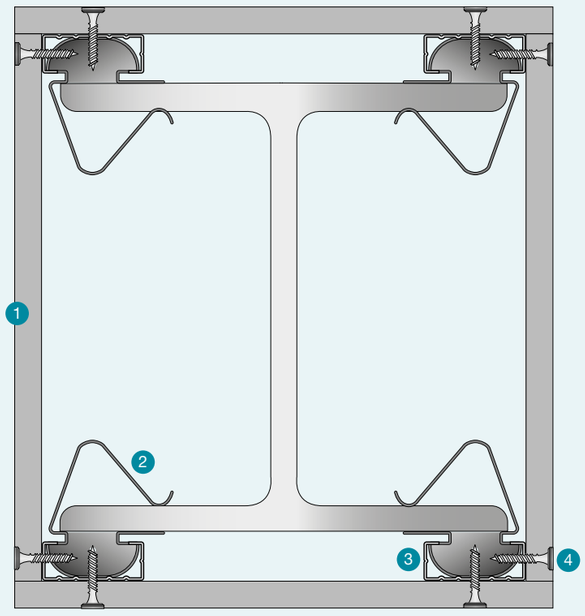
1. **TRADELINE** Drywall Screw
2. 15mm Fire Resistant Plasterboard as specified
3. **TRADELINE** Steel Framing Clips AWL10B
4. **TRADELINE** Wall/Ceiling Liner TWL507



Up to 120 minutes fire protection (Dependent on Section Factor A/V (Hp/A)
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE COLUMN AND BEAM ENCASEMENT – Single Layer – 4 Sided Detail

1. 15mm Fire Resistant Plasterboard as specified
2. **TRADELINE** Steel Framing Clips AWL10B
3. **TRADELINE** Wall/Ceiling Liner TWL507
4. **TRADELINE** Drywall Screw



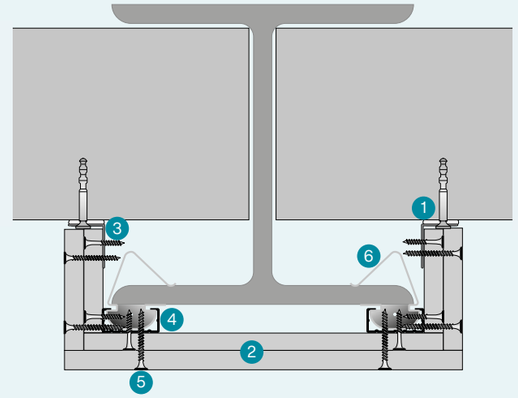
Up to 60 minutes fire protection (Dependant on Section facto A/V (Hp/A)
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

HOW TO BUILD | TRADELINE COLUMN AND BEAM ENCASEMENT

TRADELINE COLUMN AND BEAM ENCASEMENT

TRADELINE COLUMN AND BEAM ENCASEMENT – Column in masonry wall

1. **TRADELINE** Acoustic Intumescent Sealant
2. 15mm Fire Resistant Plasterboard as specified
3. **TRADELINE** Angle 25 x 25 TSL06 fixed to substrate with suitable fixing
4. **TRADELINE** Wall/Ceiling Liner TWL507
5. **TRADELINE** Drywall Screw
6. **TRADELINE** Steel Framing Clips AWL10B



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

TRADELINE CEILING & FLOOR SYSTEMS

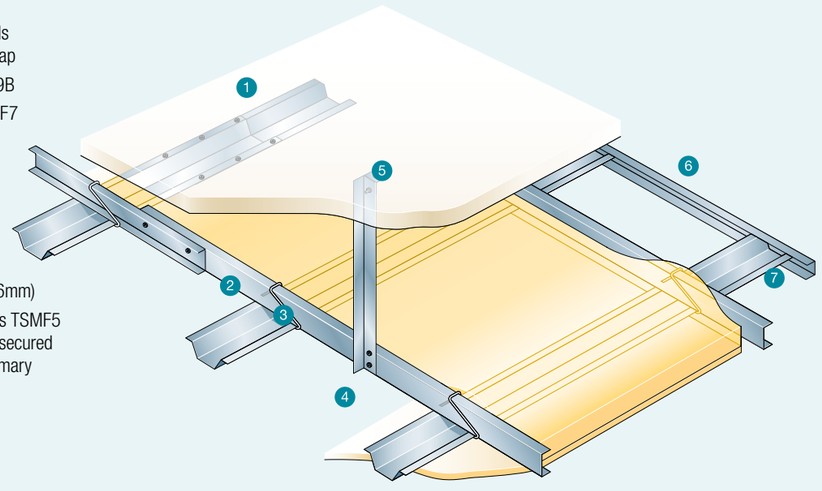
TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF Suspended Ceiling system can be used within all sectors and most drylining applications. It can be used to upgrade and protect existing structures. Dependent on plasterboard type, high levels of sound insulation and fire resistance can be achieved.

Plenum depth is fully variable and can be used to conceal services.

TRADELINE MF Suspended System Ceilings

1. **TRADELINE** Ceiling Furring Channels TSMF5 with minimum 150mm overlap
2. **TRADELINE** Pre-formed Clips AMF9B
3. **TRADELINE** Primary Channels TSMF7
4. **TRADELINE** 25 x 25 Angle TSL06 at 1200mm centres along **TRADELINE** Primary Channels
5. **TRADELINE** Angle Cleat AMF12B
6. **TRADELINE** Perimeter TSMF6A Channel fixed at 600mm centres (26mm)
7. **TRADELINE** Ceiling Furring channels TSMF5 (26mm) at 400 or 450mm centres, secured by preformed clips along TSMF7 Primary Channels (45mm)



Benefits

- Easy to cut to length using tin snips
- Mineral wool can be incorporated for thermal or acoustic insulation
- Creates a seamless surface suitable to receive most decorative finishes
- Fits easily together
- Suitable for fixing all types of plasterboard
- Creates void above the ceiling for services
- Improved acoustic performances can be achieved by using Acoustic Hangers

METAL

TRADELINE Metal Furring TSMF5 page 181

TRADELINE Primary Channel TSMF7 page 181

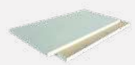
TRADELINE Perimeter Channel TSMF6A page 181

TRADELINE Angle page 181

METAL ACCESSORIES

TRADELINE Pre-formed Clips AMF9B page 181

TRADELINE Angle Cleat AMF12B page 181



Plasterboard

FIXINGS

TRADELINE Drywall Screws page 184

TRADELINE Waferhead Screws page 184

TRADELINE Nuts & Bolts page 185

FINISHINGS

TRADELINE Paper Joint Tape page 187

TRADELINE Drywall Tape page 187

TRADELINE Ready Mixed Joint Compound page 187

TRADELINE Acoustic Intumescent Sealant Foil page 187

Insulation

TRADELINE MF SUSPENDED CEILING SYSTEM

Single Layer Boarding

When using single layer plasterboard, be sure to fix the bound edges at right angles to the ceiling furring sections and lightly butt adjoining edges. Staggered by half a board length, end joints must occur at the centre of the ceiling furring channel, leaving a gap of up to 3mm between ends of boards. The plasterboard is screw-fixed to the ceiling furring sections of the appropriate length.

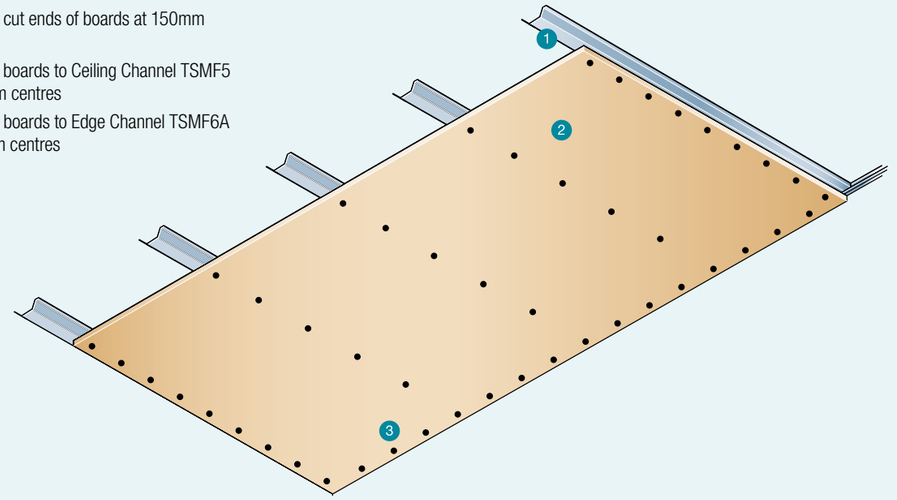
When using dual layer plasterboard, the first layer is fixed as shown. The second layer should be fixed with all joints staggered in relation to the first layer and screwed to the ceiling furring and edge channels, avoiding the screws used to fix the first layer.

Ceilings

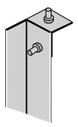
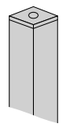
Single layer or double layer installation. Plasterboard must be fixed at 230mm maximum centres and reduced to 150mm centres at board ends and the perimeters of the room. Inner Layer plasterboard must be fixed with the bound edges of the plasterboard at 90 degrees to the metal framework with board ends staggered by half a board length. Outer layer plasterboard must be fixed with all joints staggered in relation to the inner layer. Position screws not less than 10mm from the edge of the board. Recess heads of screws below surface of plasterboard but do not break paper or gypsum core.

Boarding

1. Screw-fix cut ends of boards at 150mm centres
2. Screw-fix boards to Ceiling Channel TSMF5 at 230mm centres
3. Screw-fix boards to Edge Channel TSMF6A at 150mm centres



MF Ceiling System – Fixing centres and Maximum Loads

		 Suspending using TRADELINE angle cleats	 Suspending by fixing angle direct to soffit with approved detail
Angle Suspension Point Centres	**TSMF7 Primary Channel Centres**	**"Angle Cleat Fixing Method Maximum UDL Weight (Including Board)"**	**"Angle Direct Fixing Method Maximum UDL Weight (Including Board)"**
1200 mm	1200mm	30 kg / m²	22 kg / m²
1200 mm	900mm	40 kg / m²	30 kg / m²
1200 mm	600mm	60 kg / m²	45 kg / m²

TRADELINE MF SUSPENDED CEILING SYSTEM

Acoustic Sealant

Seal any air gaps at junctions of linings with walls, floors, ceilings and around openings with a continuous bead of **TRADELINE** Acoustic Intumescent Sealant to clean, dry, dust free surfaces leaving no air gaps.

MF Ceiling

MF Ceiling Installations are becoming increasingly common in the healthcare sector. When they are installed in small rooms with low ceiling voids particularly where rooms have been well sealed and are airtight – in a minority of cases, movement of the metal components in the ceiling has caused unacceptable noise, typically when doors are opened and closed.

To overcome this problem, in all domestic situations we recommend that TRADELINE TSMF5 Ceiling Channel is fitted onto TRADELINE TSMF7 Primary Channel using two TRADELINE Drywall Pan Head Screws at each connection.

Fire Resistance

TRADELINE MF Ceiling System has been tested at the Building Research Establishment to BS 476; part 23: 1987. The tests were conducted under steel beams that supported pre-cast concrete slabs and the tests used various densities and brands of fire resistant plasterboards.

Report References:

BRE Test Reference 211722 2003
60mins with 1 x 12.5mm Siniat GTEC Fire Board

BRE Test Reference 236863 2007
60mins with 2 x 12.5mm Knauf Fire Panel

BRE Test Reference 236868 2007
60mins with 1 x 12.5mm British Gypsum Gyproc FireLine

Please contact your nearest sales office for specific details.

A further test has also been conducted to EN 1365-2:2000 under a loaded timber floor using 2 layers of 12.5mm British Gypsum Gyproc FireLine with minimum board mass of 10kg/m². The result achieved in test no 224468 is 88 minutes duration of effective protection.

Sound Resistance

TRADELINE MF Ceiling System offers excellent acoustic performance for airborne sound (Rw) and impact (Lnw) and will improve the sound insulation of both timber and concrete floors. Results are variable and mainly dependent on the depth of the ceiling void and the type of structure to which the system is fixed.

Acoustic Hangers

The important factors in maximising the improvements are cavity depth, insulation and acoustic hangers. Considerable sound improvement can be achieved by suspending an MF System using acoustic hangers – 35mm or 70mm which de-couple the ceiling from the structural soffit.

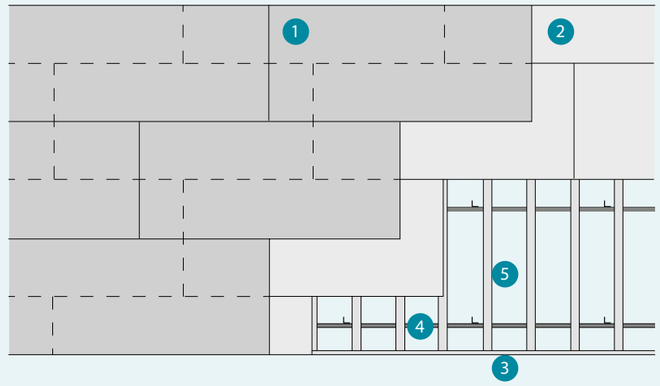
Joining TRADELINE Components

To join **TRADELINE** TSMF5 Ceiling Channels overlap by at least 150mm and secure to both sides with suitable fixings. To join **TRADELINE** TSMF7 Primary Channels overlap back to back by at least 150mm and secure with two nuts and bolts. See details on the next page.

TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF CEILING SYSTEM – Plasterboard Layers

1. Outer layer of plasterboard
2. Inner layer of plasterboard
3. **TRADELINE** Perimeter Channel TSMF6A
4. **TRADELINE** Primary Channel TSMF7
5. **TRADELINE** Furring Channel TSMF5 @400mm/450mm centres

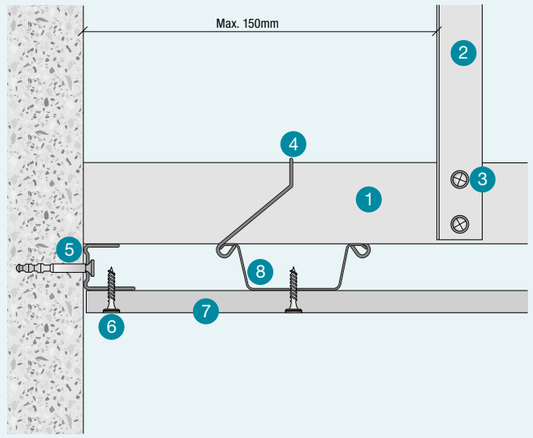


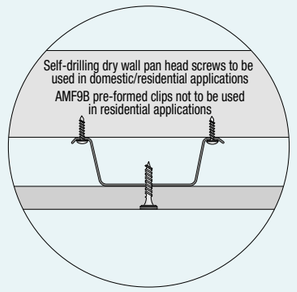
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

MIRRORED PLAN VIEW

TRADELINE MF CEILING SYSTEM – Wall Abutment Detail (TSMF5 Parallel)

1. **TRADELINE** Primary Channel TSMF7
2. **TRADELINE** Angle 25 x 25 TSL06
3. **TRADELINE** Wafer Head Drywall Screw
4. **TRADELINE** Pre-formed Clips AMF9B
5. **TRADELINE** Perimeter Channel TSMF6A suitably fixed @ 600mm max. centres
6. **TRADELINE** Drywall Screw
7. Plasterboard as specified
8. **TRADELINE** Furring Channel TSMF5





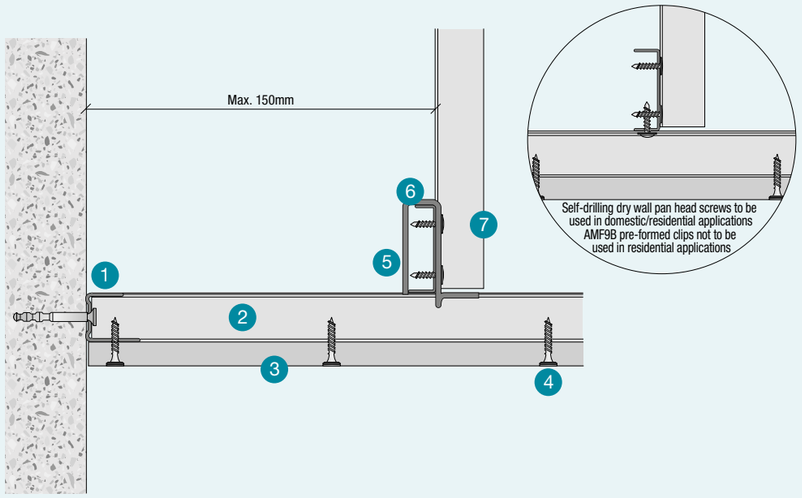
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF CEILING SYSTEM – Wall Abutment Detail (TSMF5 Perpendicular)

1. **TRADELINE** Perimeter Channel TSMF6A suitably fixed @ 600mm max. centres
2. **TRADELINE** Furring Channel TSMF5
3. Plasterboard as specified
4. **TRADELINE** Drywall Screw
5. **TRADELINE** Pre-formed Clips AMF9B
6. **TRADELINE** Primary Channel TSMF7
7. **TRADELINE** Wafer Head Drywall Screw

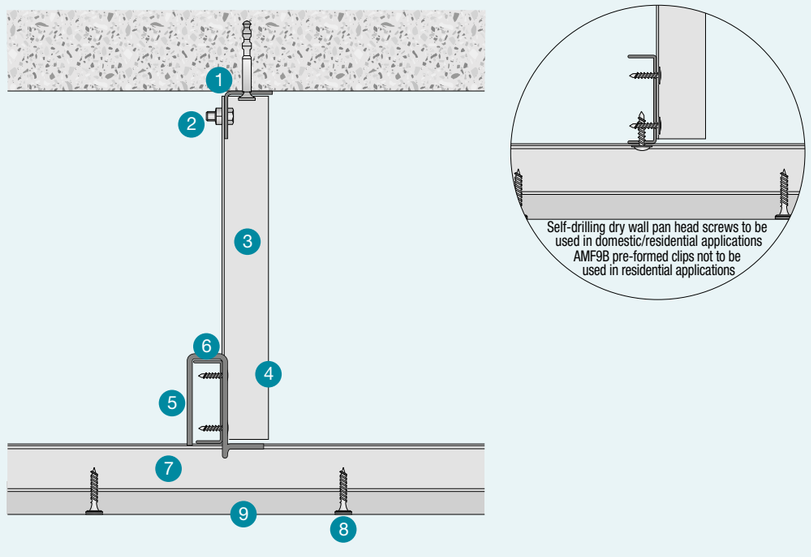


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF CEILING SYSTEM – General Layout (TSMF5 Parallel)

1. **TRADELINE** Angle Fixing Brackets AMF12B suitably fixed @ 600mm max. centres
2. Suitable Nut and Bolt
3. **TRADELINE** Angle 25 x 25 TSL06
4. **TRADELINE** Wafer Head Drywall Screw
5. **TRADELINE** Pre-formed Clips AMF9B
6. **TRADELINE** Primary Channel TSMF7
7. **TRADELINE** Furring Channel TSMF5
8. **TRADELINE** Drywall Screw



Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

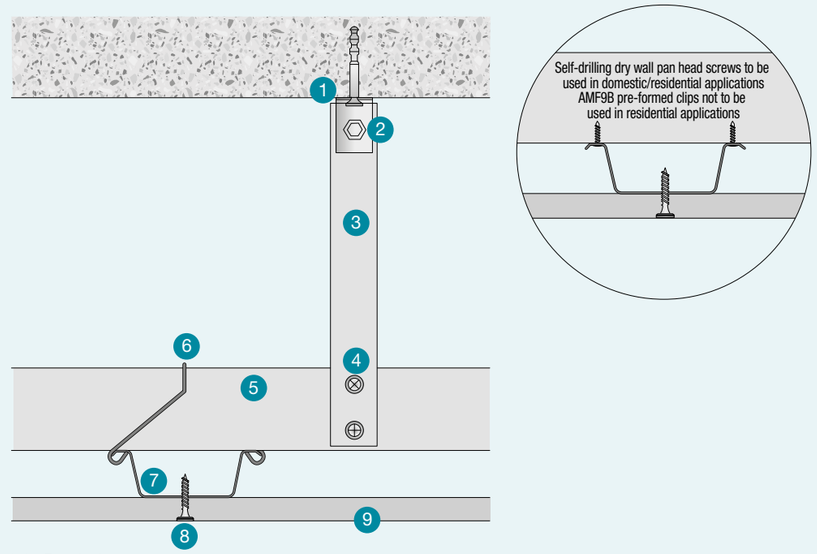
SECTION VIEW

HOW TO BUILD | TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF CEILING SYSTEM – General Layout (TSMF5 Perpendicular)

1. **TRADELINE** Angle Fixing Brackets AMF12B
2. Suitable Nut and Bolt
3. **TRADELINE** Angle 25 x 25 TSL06
4. **TRADELINE** Wafer Head Drywall Screw
5. **TRADELINE** Primary Channel TSMF7
6. **TRADELINE** Pre-formed Clips AMF9B
7. **TRADELINE** Furring Channel TSMF5
8. **TRADELINE** Drywall Screw
9. Plasterboard as specified

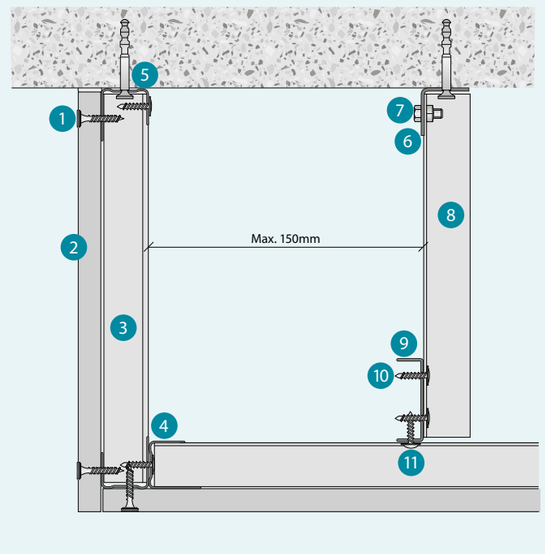


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF CEILING SYSTEM – Bulkhead Detail

1. **TRADELINE** Drywall Screw
2. Plasterboard as specified
3. **TRADELINE** Ceiling Furring TSMF5
4. **TRADELINE** Perimeter Channel TSMF6A
5. **TRADELINE** TSMF6A suitably fixed to soffit
6. **TRADELINE** Angle Fixing Brackets AMF12B suitably fixed to soffit
7. Suitable Nut and Bolt
8. **TRADELINE** Angle 25 x 25 TSL06
9. **TRADELINE** Primary Channel TSMF7
10. **TRADELINE** Wafer Head Drywall Screw
11. **TRADELINE** Pan Head Drywall Screws



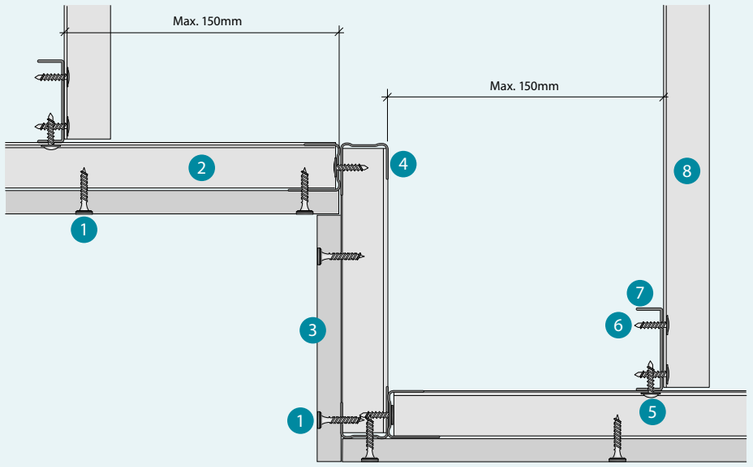
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF CEILING SYSTEM – Change of Level

1. **TRADELINE** Drywall Screw
2. **TRADELINE** Ceiling Furring TSMF5
3. Plasterboard as specified
4. **TRADELINE** Perimeter Channel TSMF6A
5. **TRADELINE** Pan Head Drywall Screws
6. **TRADELINE** Wafer Head Drywall Screw
7. **TRADELINE** Primary Channel TSMF7
8. **TRADELINE** Angle 25 x 25 TSL06

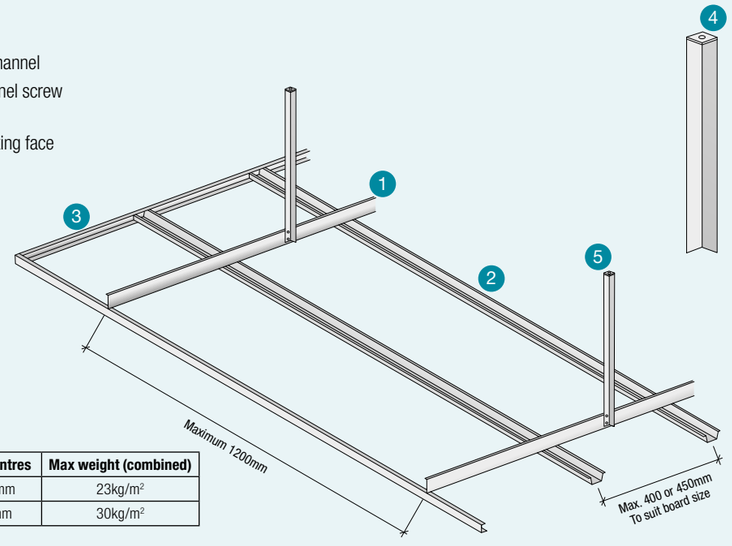


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF CEILING SYSTEM – Angle to Soffit Fixing & Reduced Loads Table

1. **TRADELINE** TSMF7 Primary Channel
2. **TRADELINE** TSMF5 Ceiling Furring Channel
3. **TRADELINE** TSMF6A Perimeter Channel screw fixed at max. 600mm centres
4. Both legs of angle bent over to form fixing face
5. **TRADELINE** Angle 25 x 25 TSL06



IMPORTANT
Where angle is fixed directly to soffit (as per detail described on this drawing). Reduced weight loading capacity applied, see table below.

Based on TSMF5 Sections 450mm max centres

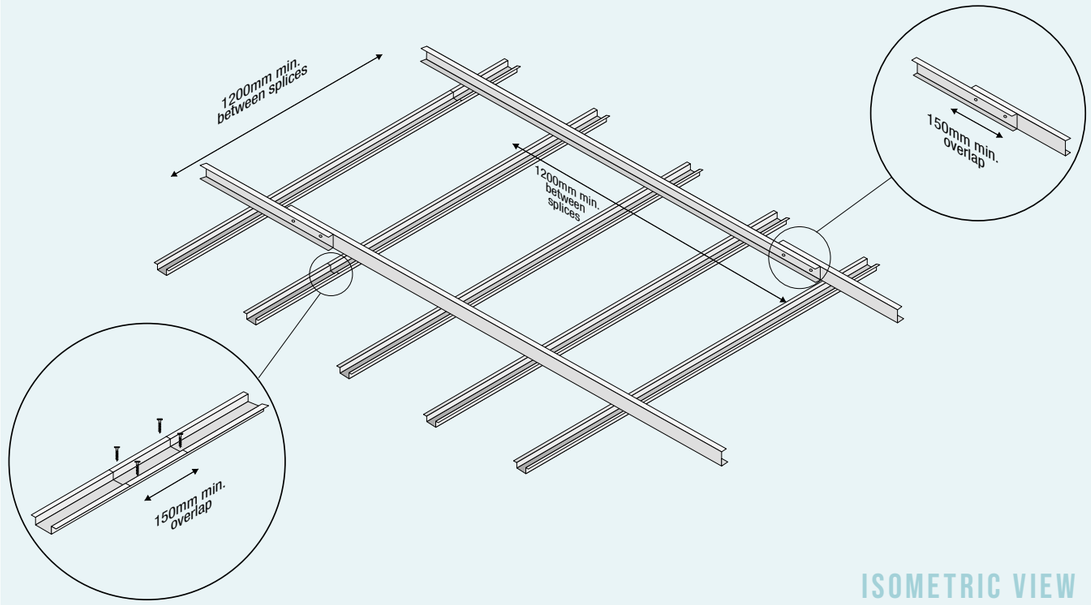
TSL06 Angle Suspension Centres	TSMF7 Centres	Max weight (combined)
1200mm	1200mm	23kg/m²
1200mm	900mm	30kg/m²

Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

HOW TO BUILD | TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF SUSPENDED CEILING SYSTEM

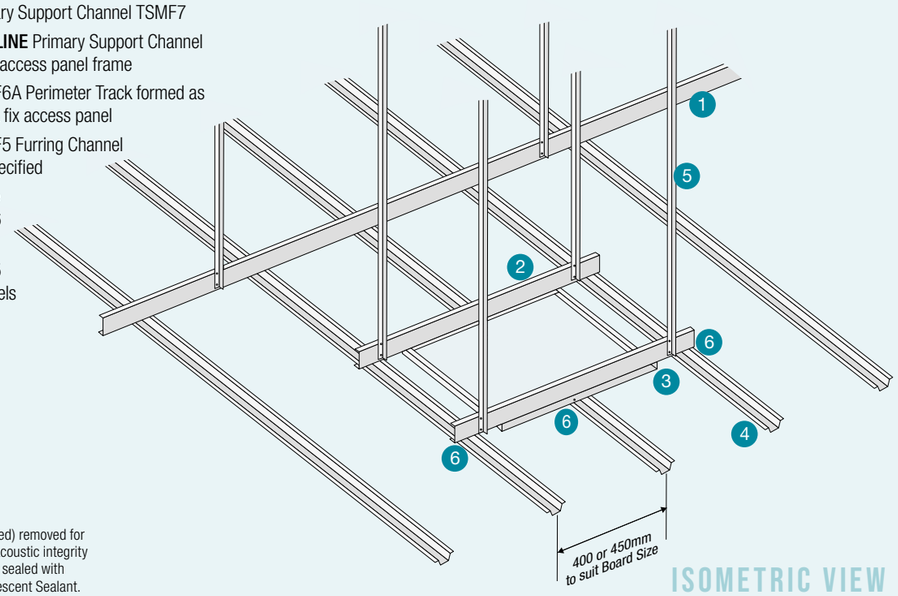
TRADELINE MF CEILING SYSTEM – Ceiling Channel & Primary Channel Splicing



ISOMETRIC VIEW

TRADELINE MF CEILING SYSTEM – MF Ceiling Access Panel (Mid-Span Between TSMF7)

1. **TRADELINE** Primary Support Channel TSMF7
2. Additional **TRADELINE** Primary Support Channel TSMF7 to support access panel frame
3. **TRADELINE** TSMF6A Perimeter Track formed as frame to support & fix access panel
4. **TRADELINE** TSMF5 Furring Channel Plasterboard as specified
5. **TRADELINE** Angle 25 x 25mm TSL06
6. Frame screw fixed to edges of TSMF5 and TSMF7 channels to brace MF grid



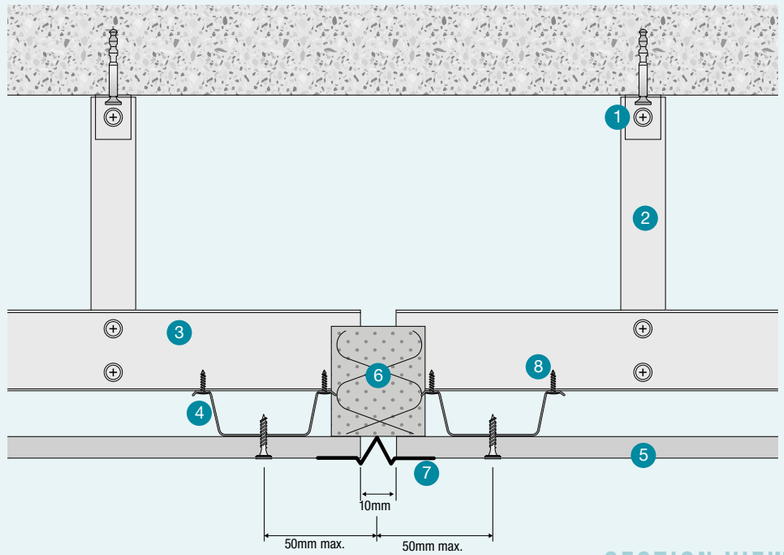
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

ISOMETRIC VIEW

TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE MF CEILING SYSTEM – Movement Control Joint (Parallel to TSMF5)

1. **TRADELINE** Angle Fixing Brackets AMF12B suitably fixed to soffit
2. **TRADELINE** Angle 25 x 25 TSL06
3. **TRADELINE** Primary Support Channel TSMF7
4. **TRADELINE** TSMF5 Furring Channel
5. Plasterboard as specified
6. Rock Mineral Wool Insulation Min 60x60mm 40kg/m³ to maintain fire integrity
7. Movement Control Joint
8. **TRADELINE** Pan Head Drywall Screw

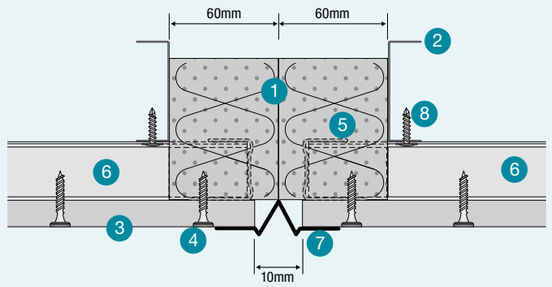


Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

TRADELINE MF CEILING SYSTEM – Movement Control Joint (Perpendicular to TSMF5)

1. Rock Mineral Wool Insulation Min 60x60mm 40kg/m³ to maintain fire integrity
2. **TRADELINE** Primary Support Channel TSMF7
3. Plasterboard as specified
4. Plasterboard fixed at 150mm centres
5. **TRADELINE** TSMF6A Perimeter Track
6. **TRADELINE** TSMF5 Furring Channel
7. Movement Control Joint
8. **TRADELINE** Pan Head Drywall Screw



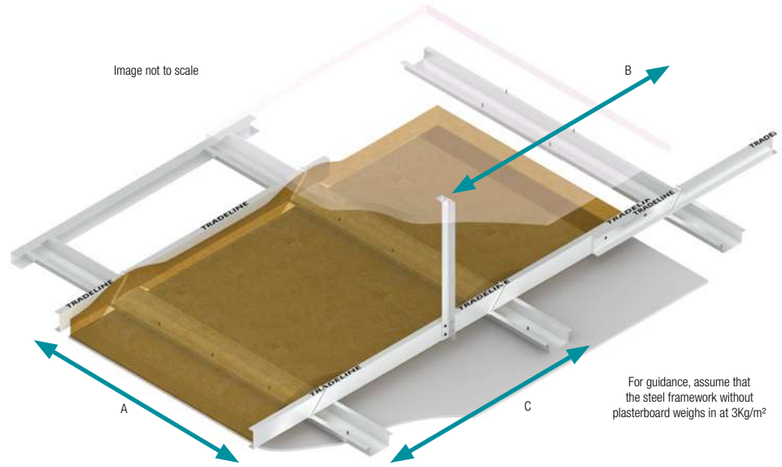
Insulation (if required/specified) removed for clarity. To maintain fire and acoustic integrity all air paths must be suitably sealed with **TRADELINE** Acoustic Intumescent Sealant.

SECTION VIEW

CEILING & FLOOR SYSTEMS INSTALLATION CHECKLIST

TRADELINE MF SUSPENDED CEILING SYSTEM

Please ensure that the components are positioned and fixed at the correct centres as maximum load calculations are based on these parameters and should be adhered to. Failing to do so could compromise the performance of the system.



For guidance, assume that the steel framework without plasterboard weighs in at 3Kg/m²

	Description	Centres (mm)	Maximum load if using angle cleats. (Up to kg/m²)	Max load fixing angle direct to soffit. (Up to kg/m²)
A	**TSMF7 Primary Channel Centres** *If centres are closed down to increase load capacity, the primary channels must still be fixed to the substrate using angles at every 1200mm centres.	1200	30	22
		900	40	30
		600	60	45
B	**TSL06 Angle Centres**	1200		
C	**TSMF5 Top Hat Centres** **900mm x 1800mm Plasterboard**	450		
	1200mm x 2400mm Plasterboard	400		

Services must be fixed independently directly to the structural soffit and not hung off the MF Framework to prevent point loading.

ENSURE MF CEILING SECTIONS HAVE BEEN SECURED IN THE CORRECT CENTRES AS ABOVE

TRADELINE MF SUSPENDED CEILING SYSTEM – FIXING ANGLES

The weight of **TRADELINE** MF Ceilings can be quite substantial, magnifying the importance of the **TRADELINE** TSL06 Angle to soffit fixing. The following options show the **TRADELINE** approved fixing methods.

Note:
Please ensure a suitable fixing has been used for the soffit variant.

Option A
Angle Fixing Brackets

Option B
TRADELINE Acoustic Hangers

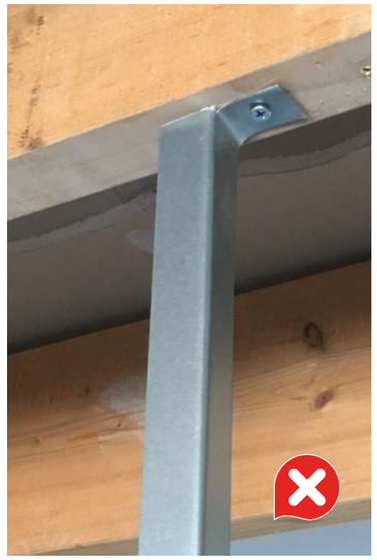
Option C

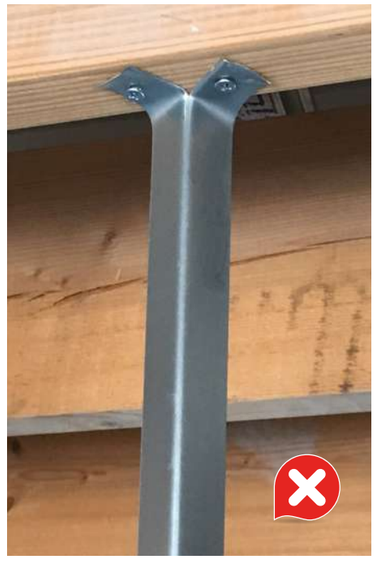
By making an incision down the centre of the angle and folding both legs over, you are provided with a fixing face which allows you to fix the angle directly to the soffit above. **Utilising this method will reduce the maximum load capacity by 25%.**

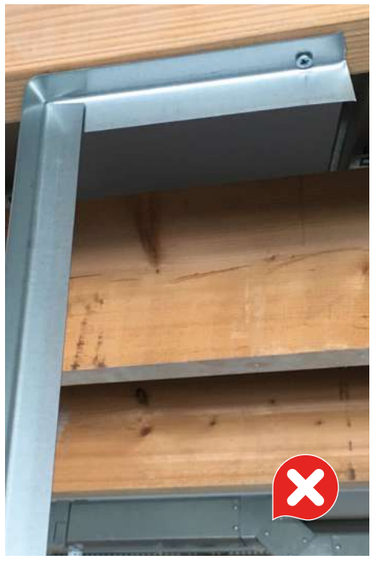
ENSURE ANGLES HAVE BEEN FIXED CORRECTLY USING ONE OF THE CORRECT METHODS SHOWN ABOVE

TRADELINE MF SUSPENDED CEILING SYSTEM – FIXING ANGLES

All of the methods shown for fixing TRADELINE Angles are not recommended and will compromise the load that the ceiling is capable of supporting.





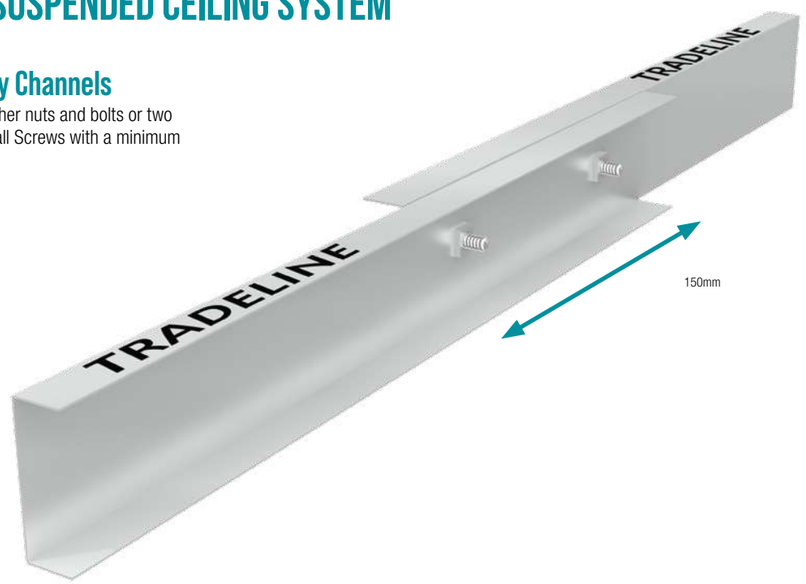


CEILING & FLOOR SYSTEMS INSTALLATION CHECKLIST

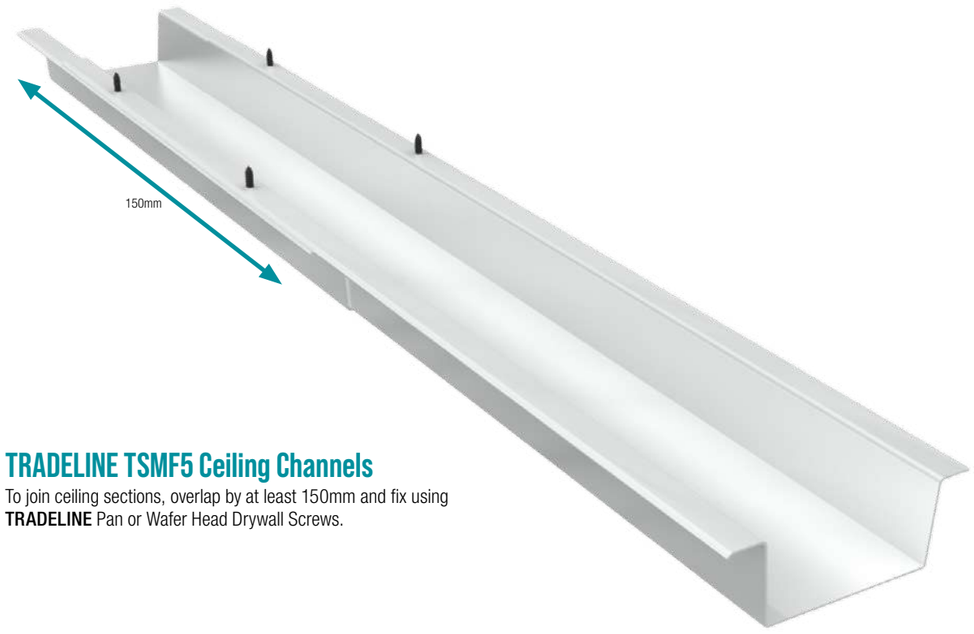
TRADELINE MF SUSPENDED CEILING SYSTEM

TRADELINE TSMF6A Primary Channels

Join Primary Channels together using either nuts and bolts or two **TRADELINE** Self-Drill Wafer Head Drywall Screws with a minimum overlap of 150mm.



Note:
Sections cannot be crimped as an acceptable method of splicing.



TRADELINE TSMF5 Ceiling Channels

To join ceiling sections, overlap by at least 150mm and fix using **TRADELINE** Pan or Wafer Head Drywall Screws.

ENSURE MF SECTIONS HAVE BEEN SPLICED CORRECTLY

TRADELINE MF SUSPENDED CEILING SYSTEM – CORRECT ANGLE FIXINGS

When fixing the **TRADELINE** TSL06 Angle to the **TRADELINE** TSMF7 Primary Channels, use two **TRADELINE** Self-Drill Wafer Head Drywall Screws per connection to maintain the strength and rigidity of the ceiling.

Correctly secured by 2 **TRADELINE** Self Drill Wafer Head screws.

Incorrectly secured by only 1 **TRADELINE** Self Drill Wafer Head screws.

ENSURE TWO FIXINGS HAVE BEEN USED TO SECURE THE PRIMARY CHANNEL INTO THE ANGLE

TRADELINE MF SUSPENDED CEILING SYSTEM – FIXING TSMF5

TRADELINE AMF9B Clips – Non residential projects ONLY

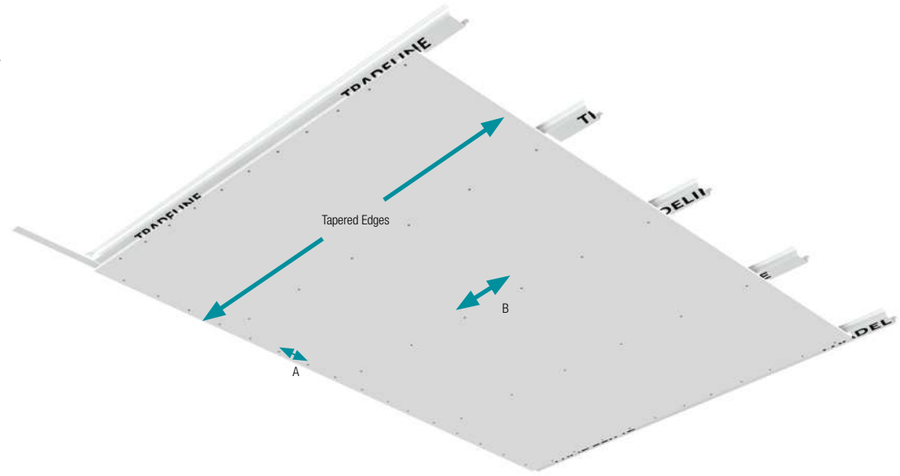
Do not use this detail in small ceiling voids and in residential projects.

TRADELINE TSMF5 Ceiling sections can be mechanically fixed which is acceptable in both commercial and residential applications. Use **TRADELINE** Pan or Wafer Head Drywall Screws.

ENSURE TSMF5 SECTIONS HAVE BEEN CORRECTLY SECURED TO THE PRIMARY CHANNELS

TRADELINE MF SUSPENDED CEILING SYSTEM – PLASTERBOARD FIXINGS

Plasterboard must be fixed in the correct orientation to maximise the ceilings strength. The tapered edge should run perpendicular to the **TRADELINE** TSMF5 Ceiling Channel, minimising the risk of deflection.



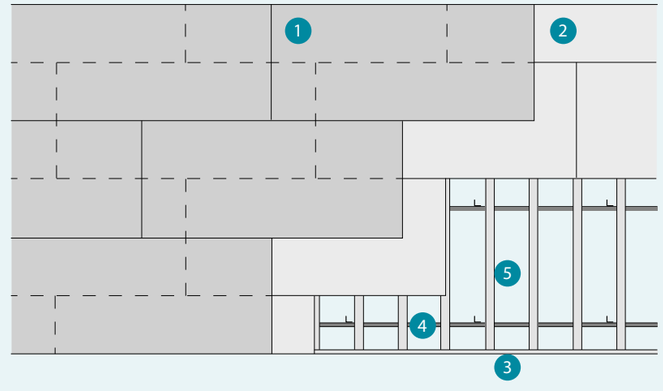
	Plasterboard Fixing Centres (mm)	
A	Board Perimeter	150
B	Board Body	230

Use Front Cover to check centres.

Likewise to wall partitions, MF plasterboards joints must be staggered. For single layer applications just focus on the inner layer plasterboard layout in the detail below. For double layer applications, both layers must be staggered in both orientations so that there are no overlapping joints.

Boarding

1. Screw-fix cut ends of boards at 150mm centres
2. Screw-fix boards to Ceiling Channel TSMF5 at 230mm centres
3. Screw-fix boards to Edge Channel TSMF6A at 150mm centres



ENSURE PLASTERBOARDS HAVE BEEN FIXED CORRECTLY

TRADELINE CEILING & FLOOR SYSTEMS

TRADELINE CHANNELS AND ANGLES

TRADELINE channels have been designed to to enable the construction of sub grids to support suspended ceilings where heavily congested service zones require increased suspension centres.

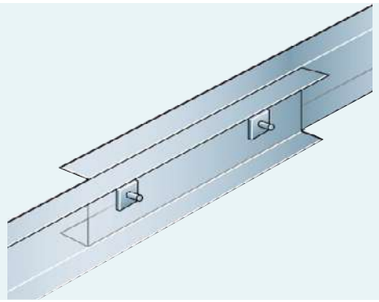
For further assistance and calculations specific to your application please contact technicalteam@ccfltd.co.uk. with the following information:

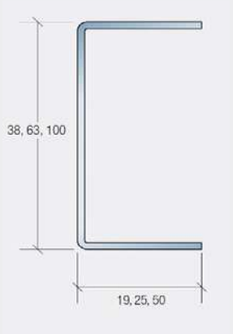
- Type of span – single or continuous.
- Length of span – in metres.
- Total weight to be supported from sub grid (kg/square metre).

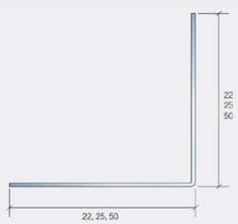
When joining channels they must be bolted back to back with a minimum overlap of 600mm. A minimum of two nut and bolt fixings must be used, at 500mm minimum centres.

Although primarily designed for the suspension of sub grids and ceiling systems **TRADELINE** Angles can be used in many dry lining applications.

Also utilised in partitioning systems on 90 & 120 minute deflection heads as cloaking angles.







TRADELINE Channels

Code	Product Description	Stock Lengths
SU07	38mm base x 19mm leg Channel - 1.5mm Gauge	3000mm 3600mm 6000mm^
SU08	63mm base x 25mm leg Channel - 1.5mm Gauge	3600mm 4200mm^ 6000mm^
SU12	100mm base x 50mm leg Channel - 1.5mm Gauge	4800mm

TRADELINE Angles

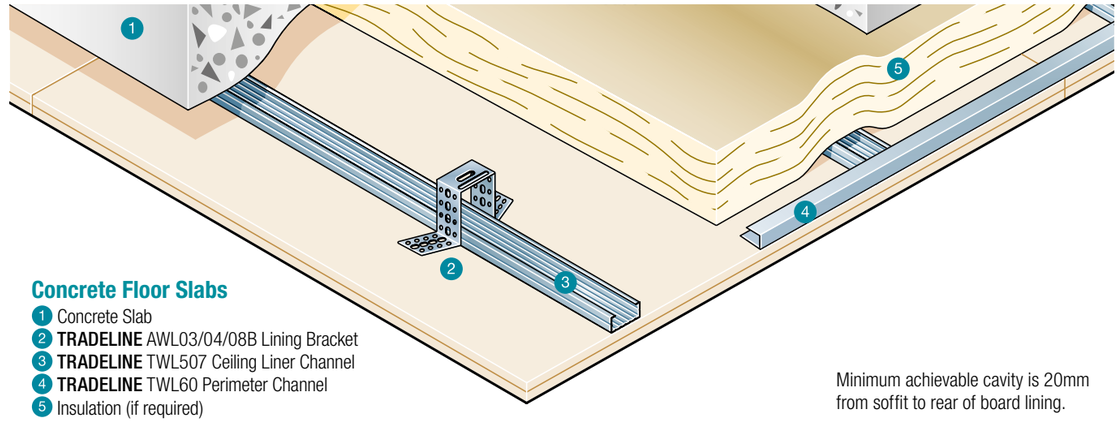
Code	Product Description	Length (mm)
SL04	22mm leg x 22mm leg x 90 degree angle - 0.8mm Gauge	3000mm
TSL06	25mm leg x 25mm leg x 90 degree angle - 0.8mm Gauge	3600mm
SL12	50mm leg x 25mm leg x 90 degree angle - 0.8mm Gauge	3000mm 3600mm
SL13	50mm leg x 50mm leg x 90 degree angle - 0.8mm Gauge	3000mm 3600mm
SL26	50mm leg x 50mm leg x 90 degree angle - 1.5mm Gauge	3600mm

TRADELINE CEILING & FLOOR SYSTEMS

TRADELINE CEILING LINER SYSTEM

TRADELINE Ceiling Liner system can be used within all sectors and most drylining applications and is fully compatible with other TRADELINE systems. It can be used under timber joists or concrete soffits with any plasterboard type, insulation can be included within the ceiling void.

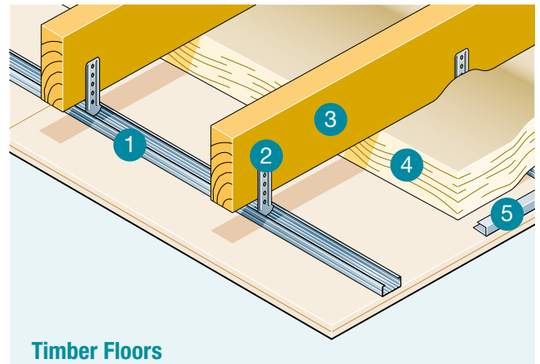
Plenum depths up to 120mm can be formed using TRADELINE AWL07B Timber Connectors to conceal services.



Concrete Floor Slabs

1. Concrete Slab
2. **TRADELINE** AWL03/04/08B Lining Bracket
3. **TRADELINE** TWL507 Ceiling Liner Channel
4. **TRADELINE** TWL60 Perimeter Channel
5. Insulation (if required)

Minimum achievable cavity is 20mm from soffit to rear of board lining.



Timber Floors

1. **TRADELINE** TWL507 Ceiling Liner Channel
2. **TRADELINE** AWL06B/07B Ceiling Liner S Timber Connector
3. Timber Joists
4. Insulation (if required)
5. **TRADELINE** TWL60 Perimeter Channel

Table A - TRADELINE TWL507 Ceiling Liner Channel Centres

Board thickness (mm)	Board Length (mm)	Ceiling Liner Channel (TWL507) Ctrs (mm)
12.5mm, 15mm & 19mm	2400/3600	400
	1800/2700	450

Table B - TRADELINE Ceiling Brackets/Timber Connector Centres

Board Layers & Thickness	Maximum brackets centres (mm)
1 x 9.5mm Plasterboard	900
1 x 12.5mm Plasterboard	900
1 x 15mm Plasterboard	900
All double layer plasterboards	600

CONSTRUCTION

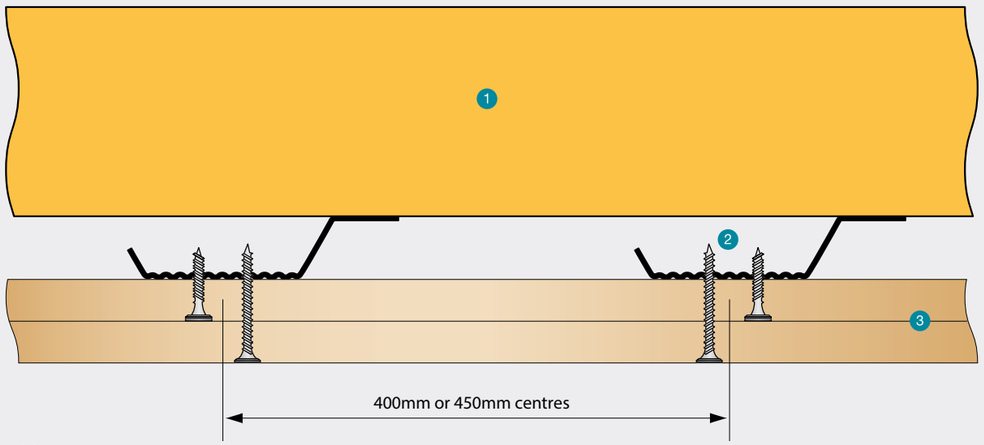
- Suitably fix **TRADELINE** TWL60 Perimeter Channel at 600mm centres at the required ceiling height allowing for depth of plasterboard to be used.
- Dependent on plasterboard length being used (refer to table A), locate **TRADELINE** TWL507 Ceiling Liner Channel at either 400 or 450mm centres. Position and suitably fix **TRADELINE** Fixing Bracket or Timber Connector to concrete soffit or timber joists at the appropriate centres (refer to table B).
- To connect **TRADELINE** Fixing Brackets to **TRADELINE** Ceiling Liner Channel, use 2 no. **TRADELINE** Wafer Head Drywall Screws at each connection point. Excess bracket is simply folded back to allow fixing of plasterboard. To connect **TRADELINE** Ceiling Liner Channel onto **TRADELINE** Timber Joist Connectors, align the channel to the connector and twist into position.
- Where ceiling exceeds length of **TRADELINE** TWL507 Ceiling Liner Channel, join additional length together using **TRADELINE** AWL05B Ceiling Liner Connectors.
- Position plasterboards at right angles to **TRADELINE** Ceiling Liner Channels. Fix to framing with **TRADELINE** Drywall Screws at 150mm maximum centres to perimeters & cut edges, and 230mm maximum centres within the field of the board. Ensure **TRADELINE** Drywall Screws penetrate through the sections by a minimum of 10mm. For double boarded systems, ensure all outer layer boards joints are staggered in relation to those of the inner layer.

Dependent on board type and insulation, improved levels of sound insulation and fire resistance can be achieved with**TRADELINE** Ceiling Liner system. Services can also be routed within the ceiling void provided by the system.

TRADELINE CEILING & FLOOR SYSTEMS

TRADELINE RESILIENT BAR CEILINGS

TRADELINE RB565 Resilient Bar Ceilings are designed to improve sound insulation by decoupling the plasterboard lining from the timber joist. TRADELINE Resilient Bars are fixed perpendicular to the joists.



1. Timber Joists
2. **TRADELINE** RB565 Resilient Bar
3. Plasterboard

TRADELINE RB565 Resilient Bars spaced at either 400 or 450mm centres

Recommendations for maximum loadings for TRADELINE Resilient Bars

Centres (mm)	Uniformed distributed load (kg/m²)
400	35
450	30

- Bars are jointed by butting together directly over joists. For 900 x 1800mm plasterboard Resilient Bar is spaced at 450mm centres and 400mm centres for 1200 x 2400mm boards. Tradeline RB565 Resilient Bars to be fixed on the underside of each joist using **TRADELINE** Drywall Screws.
- Position plasterboards at right angles to **TRADELINE** RB565 Resilient Bars. Fix to framing with **TRADELINE** Drywall Screws at 150mm maximum centres to perimeters & cut edges, and 230mm maximum centres within the field of the board. Ensure **TRADELINE** Drywall Screws penetrate through the sections by a minimum of 10mm.

The Resilient Bar is designed to offer improved acoustic insulation when constructing a conventional ceiling under timber joists. Mineral wool insulation can be included in the floor cavity to improve acoustic performance. To ensure maximum sound insulation performance, screws fixing the plasterboard must not be in contact with the joists. All outer layer board joints should be staggered in relation to the inner layer.

The following were tested as floor applications under timber beams 235mm x 50mm spaced at 450mm centres with 15mm OSB fixed to the top of the joists.

Each ceiling was boarded with an inner layer of 19mm standard plasterboard (plank) and an outer layer of 12.5mm sound resistant plasterboard. 100mm Acoustic Joist Roll was infilled into the joist cavities.

	Boards fixed direct to timber beams in the conventional method	Boards fixed to our Resilient Bar spaced at 400mm centres
Airborne RwdB	40	54
Impact Lnw	74	61
Airborne Rw + Ctr	33	45

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE RESILIENT BAR CEILINGS

Fully approved for use in robust detail separating floors

TRADELINE RB565 Resilient Bar

is now fully approved for use with all Robust Detail Separating Floors, as listed here:

- Concrete E-FC-1
- Timber I – Joists E-FT-1
- Timber Solid Joists E-FT-2
- Metal Web Joists E-FT-3
- Timber I Joists E-FT-4
- Timber I Joists E-FT-5
- Beam Metal Joists E-FS-2

The Robust Detail acoustic test criteria has been undertaken at the Sound Research Laboratories in Suffolk, report number C/09/5L/20805/R01 refers.

For resilient bars to be approved for use in Robust Detail separating floors they must be tested as detailed in Appendix E of the Robust Details Handbook. The testing procedure consists of testing a standard floor construction without resilient bars and then testing the same standard floor with the addition of resilient bars installed between the floor joists and the plasterboard ceiling. Both airborne sound and impact sound tests are carried out on both floor constructions.

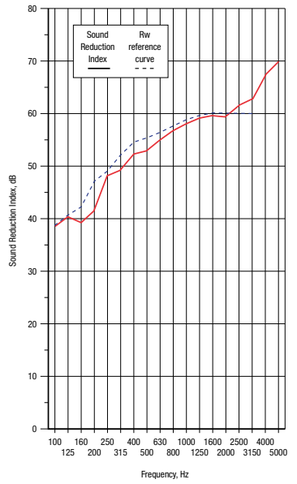
The required minimum improvements for the floor with resilient bars attached compared to the floor without resilient bars is 17dB improvement in airborne sound insulation (Rw + Ctr) and 16dB improvement in impact sound insulation (Lw). The **TRADELINE RB565 resilient bar** has achieved these minimum standards.

TRADELINE RB565 resilient bar can be used in Robust Detail separating floors without the need for on-site acoustic testing.

Data Sheet 3

Test Number	5	**Air temperature:**	21.1 °C
Client:	Tradeline	**Air humidity:**	64%
Test Date:	23/06/2009	**Receiving room volume:**	55 m³
Sample length:	3.985 m	**Source room volume:**	50 m³
Sample width:	2.715 m	**Sample weight:**	38.1 kg/m²
Product Identification:	Timber base floor as per Robust Detail Appendix E with RB565 resilient bars installed at 400mm centres		

Freq f Hz	Sound Reduction Index, dB 1/3 Oct	1/1 Oct
50+	32.6	
63+	20.5	24.5
80+	29.7	
100	36.5	
125	40.4	38.2
160	38.6	
200	42.4	
250	47.4	45.3
315	49.3	
400	51.7	
500	52.4	52.7
630	54.3	
800	56.9	
1000	58.6	58.1
1250	59.1	
1600	59.0	
2000	59.4	60.0
2500	62.2	
3150	63.0	
4000	66.8	65.7
5000	70.2*	
6300+	74.0*	
8000+	75.3*	74.3
10000+	73.7*	
Average 100-3150	52.0	



Rating according to BS EN ISO 717-1:1997
Rw(C;Ctr) = **56 (-2;-6)** dB

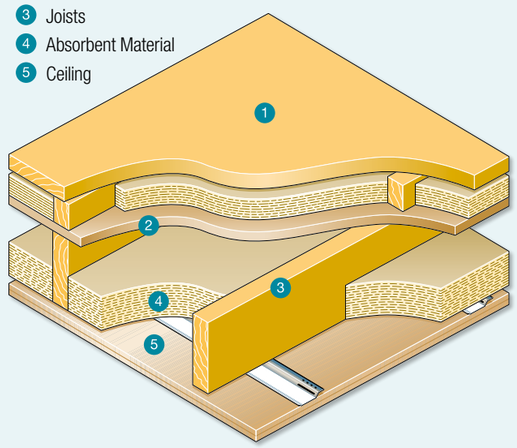
Notes * designates measurement corrected for background
designates limit of measurement due to background
+ designates frequency beyond standard and not UKAS accredited

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

For further information, please turn to the back of this guide and contact your local CCF stockist.

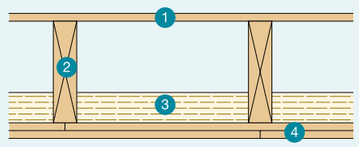
Boarding

1. Floating Floor
2. Floor Decking
3. Joists
4. Absorbent Material
5. Ceiling



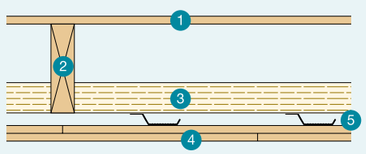
Laboratory Test Construction of Floor with Direct Fix Ceiling

1. Floating Decking
2. Joist
3. Absorbent Material
4. Ceiling



Laboratory Test Construction of Floor with the Ceiling Connected via Resilient Bars

1. Floating Decking
2. Joist
3. Absorbent Material
4. Ceiling
5. Resilient Bars

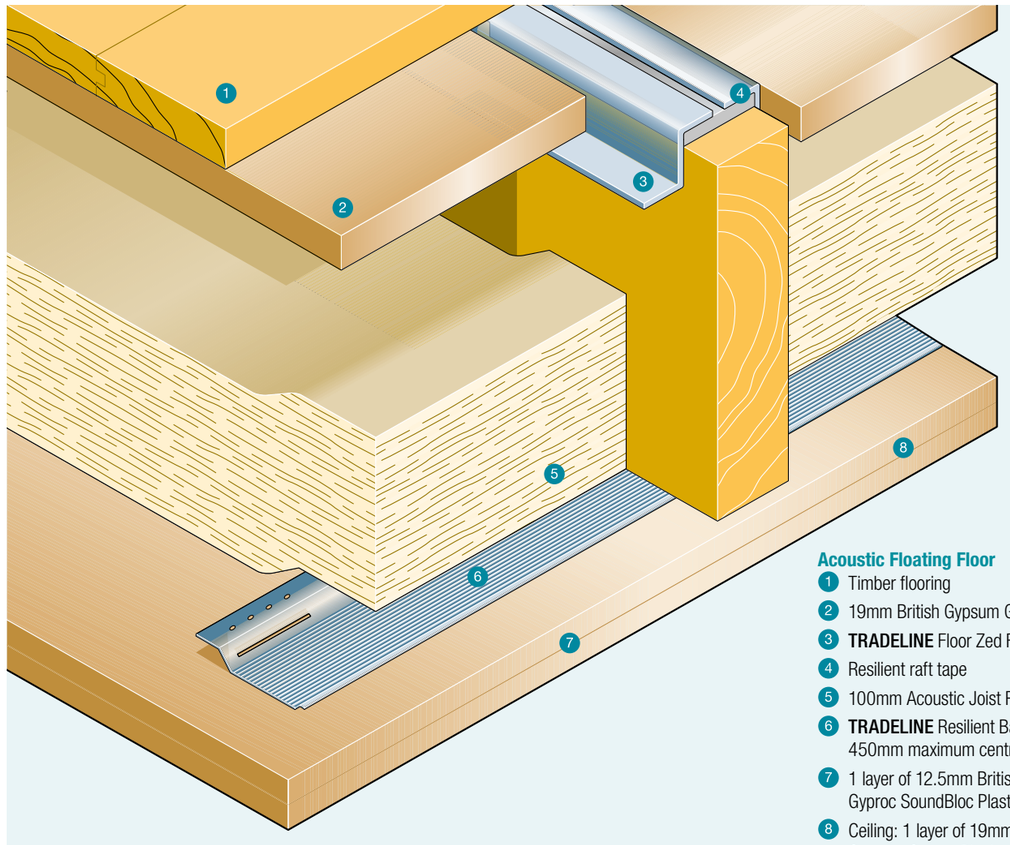


TRADELINE CEILING AND FLOOR SYSTEMS

TRADELINE FLOATING FLOOR SYSTEM

TRADELINE Floating Floor System offers excellent acoustic improvement for both airborne and impact sound transfer.

This system is ideal for residential conversions and refurbishments of older properties to upgrade existing timber floors. It can also be used to improve sound insulation from upper floors in new build projects.



Acoustic Floating Floor

1. Timber flooring
2. 19mm British Gypsum Gyproc Plank
3. **TRADELINE** Floor Zed FF582
4. Resilient raft tape
5. 100mm Acoustic Joist Roll
6. **TRADELINE** Resilient Bar at 450mm maximum centres
7. 1 layer of 12.5mm British Gypsum Gyproc SoundBloc Plasterboard
8. Ceiling: 1 layer of 19mm British Gypsum Gyproc Plank

Construction

Flooring

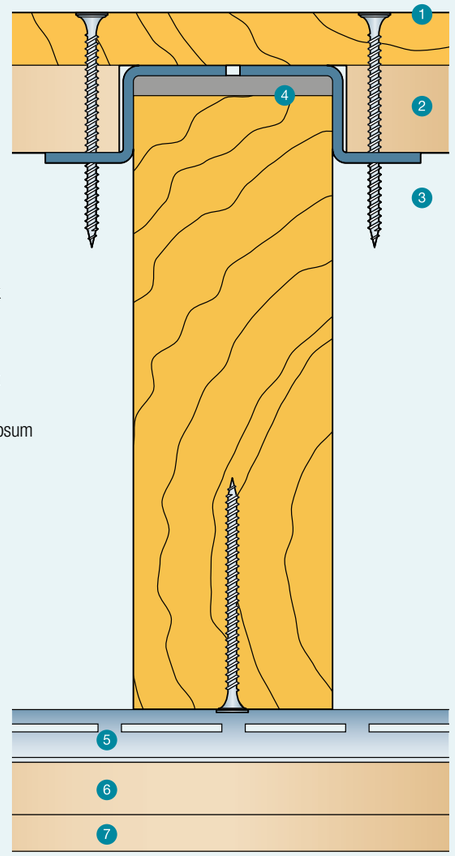
Fit self adhesive resilient tape along the length of each joist. On top of the resilient raft tape place a floor zed section each side of the joist with the large flange on top of the beam. For smaller joists it may be necessary to overlap the flanges of the floor zed section. On larger joists there can be a gap between the sections. To help installation it may help to secure floor joist sections into place by fixing with an occasional temporary screw. 19mm plank is cut neat (not tight) to fit between the floor zed sections. The next board should be butted tightly to the previous board.

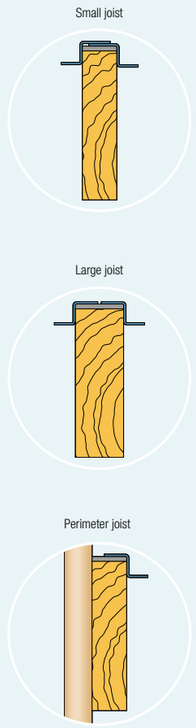
The timber flooring is then laid across the top at 90º to the floor zed sections and screw fixed through the plank and into the bottom flange of the floor zed section using suitable screws. It is important to ensure that any temporary screws are removed from the floor zed sections before fitting the timber flooring and that no fixings are allowed to connect the floor zed section to the timber joist through the timber flooring.

A 5mm clearance gap must be left at perimeter walls which must be fully filled with acoustic mastic.

By following this procedure a completely free floating floor has been created.

1. Timber Floor
2. 19mm British Gypsum Gyproc Plank
3. **TRADELINE** Floor Z FF582
4. Resilient Raft Tape
5. **TRADELINE** RB565 Resilient Bar at 450mm Maximum Centres
6. Ceiling: 1 Layer of 19mm British Gypsum Gyproc Plank
7. 1 Layer of 12.5mm British Gypsum SoundBloc Plasterboard





SECTION VIEW

See page 176 for information on Resilient Bar Ceiling components.

Ceilings

- **TRADELINE** RB565 Resilient Bar is fixed at right angles to the joist at either 400mm or 450mm centres depending on plasterboard length being used. **TRADELINE** RB565 Resilient Bars are joined by butting together under the joist and fixed using **TRADELINE** Drywall Screws.
- Position plasterboards at right angles to **TRADELINE** RB565 Resilient Bars. Fix to framing with **TRADELINE** Drywall Screws at 150mm maximum centres to perimeters & cut edges, and 230mm maximum centres within the field of the board. Ensure **TRADELINE** Drywall Screws penetrate through the sections by a minimum of 10mm.
- To ensure maximum sound insulation performance, screws fixing the plasterboard must not be in contact with the joists. When installing outer layer board joints should be staggered in relation to the inner layer.
- The addition of glass mineral wool insulation within the floor cavity will improve the acoustic performance.

Performance Data

Floor	19mm plank on our Floor Zed profile FF582 located over joists 235mm x 50mm spaced at 450mm centres clad with 15mm OSB board.
Insulation	100mm Acoustic Joist Roll.
Ceiling	Resilient Bar RB565 fitted to underside of joists spaced at 400mm centres clad with 1 inner layer of 19mm plank and 1 outer layer of 12.5mm British Gypsum Gyproc SoundBloc Plasterboard.
Sound Insulation	Airborne 60RwdB Impact 53LnwdB.

Resilient tape by others, but specification must be 6mm x 50mm Black Rubber open cell sponge resilient tape. Density 414kg/m3.

As per the requirements set out in ISO/IEC 17025:2017 regarding test data, the results stated have been carried out by voestalpine Metsec plc as part of the contract to supply **TRADELINE** Metal Sections to Travis Perkins Trading Company Limited and other Travis Perkins Group Companies.

TRADELINE CEILING AND FLOOR SYSTEMS

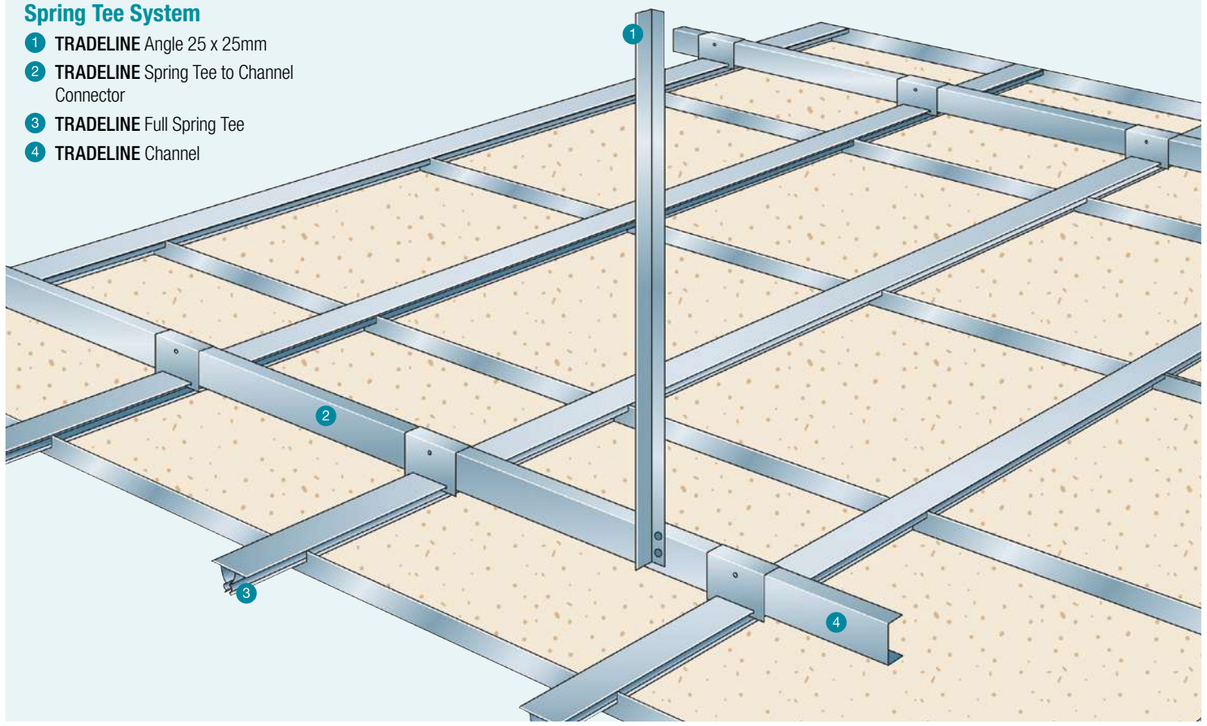
TRADELINE SPRING TEE CEILING SYSTEM

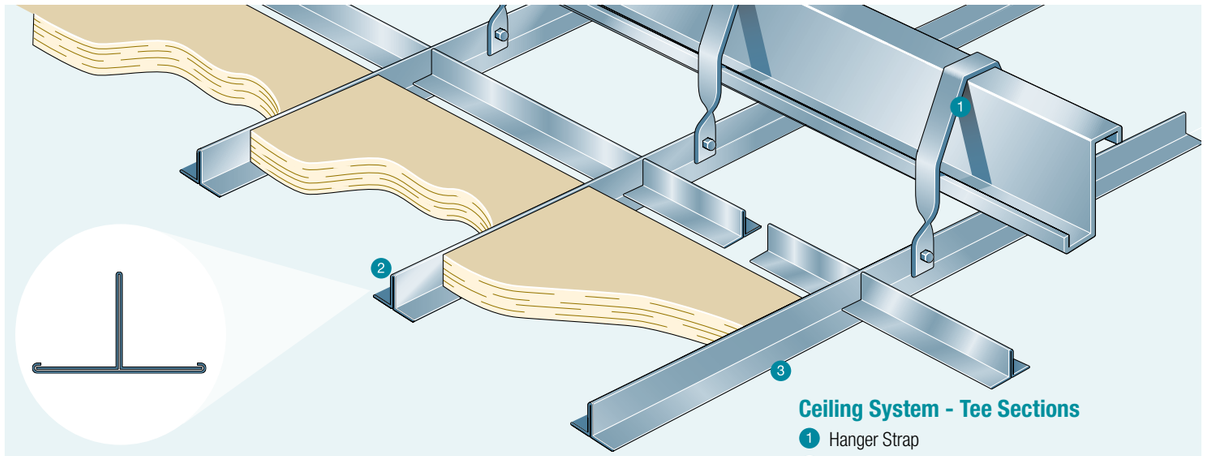
The Spring Tee System is designed for use with metal pan clip-in tiles manufactured by SAS International and Zentia (formally known as Armstrong Ceiling Solutions). Pull-out tests are conducted during the manufacturing process as part of the quality procedure to ensure correct fitting of tiles.

The white perimeter channel (535381) is coated to code RAL 9010.

Spring Tee System

1. **TRADELINE** Angle 25 x 25mm
2. **TRADELINE** Spring Tee to Channel Connector
3. **TRADELINE** Full Spring Tee
4. **TRADELINE** Channel





Ceiling System - Tee Sections

1. Hanger Strap
2. Sleeve Connector
3. Tee Section

See page 195 for information on Spring Ceiling components.

SECTION NOTES

TRADELINE PRODUCTS

TRADELINE METAL COMPONENTS

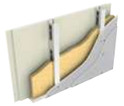
Partition System **174**
Shaft Encasement System **177**
Column and Beam Encasement System **179**
Wall/Ceiling Lining System **180**
MF Suspended Ceiling System **181**
Spring Tee Ceiling System **182**
Fire Barrier System **183**
Floating Floor System **183**
Fixings **184**

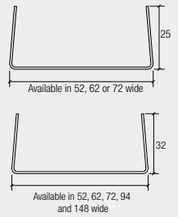
TRADELINE FINISHING SOLUTIONS 187

TRADELINE ACCESS PANEL SOLUTION 188

TRADELINE METAL COMPONENTS

TRADELINE PARTITION & INDEPENDENT WALL LINING SYSTEM





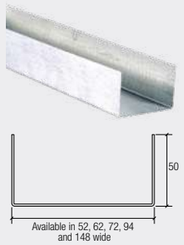
TRADELINE Standard Track

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535312	**TRADELINE 52mm Standard Track**	TPT52	52	25	0.5	3000
771818	**TRADELINE 62mm Standard Track**	PT62	62	25	0.5	3000
535316	**TRADELINE 72mm Standard Track**	TPT72	72	25	0.5	3000
535313	**TRADELINE 52mm Track (32mm leg)**	PDT52	52	32	0.5	3000
771819	**TRADELINE 62mm Track (32mm leg)**	PDT62	62	32	0.5	3000
535317	**TRADELINE 72mm Track (32mm leg)**	TPDT72	72	32	0.5	3000
535323	**TRADELINE 94mm Track (32mm leg)**	TPT94	94	32	0.5	3000
535326	**TRADELINE 148mm Track (32mm leg)**	TPT148	148	32	0.5	3000

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



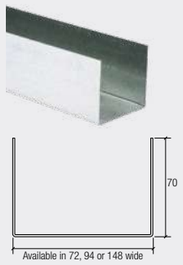
TRADELINE Deep Track 50mm Flange

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535314	**TRADELINE 52mm Deep Track**	TPEDT52	52	50	0.5	3000
535315	**TRADELINE 62mm Deep Track**	PEDT62	62	50	0.5	3000
535318	**TRADELINE 72mm Deep Track**	TPEDT72	72	50	0.5	3000
535324	**TRADELINE 94mm Deep Track**	PEDT94	94	50	0.5	3000
535327	**TRADELINE 148mm Deep Track**	TPDT148	148	50	0.5	3000

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems.

Use Deep Tracks where deflection head is required. Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Extra Deep Track 70mm Flange

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535319	**TRADELINE 72mm Extra Deep Track**	PXDT72	72	70	0.7	3000
535325	**TRADELINE 94mm Extra Deep Track**	PXDT94	94	70	0.7	3000
535328	**TRADELINE 148mm Extra Deep Track**	PXDT148	148	70	0.7	3000

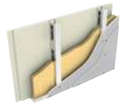
APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

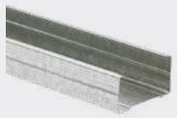
TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems. Use Extra Deep Tracks where deflection head is required.

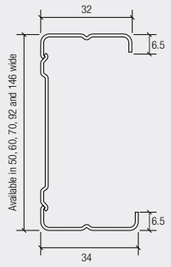
Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TIP If deflection head is required, please ensure that you choose the right U tracks as per the deflection head allowance guidance in page 189.

TRADELINE PARTITION & INDEPENDENT WALL LINING SYSTEM







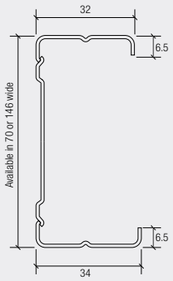
TRADELINE Standard C Stud

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535278	**TRADELINE 50mm C Stud**	TPS50	50	32/34	0.5	2400
535279	**TRADELINE 50mm C Stud**	TPS50	50	32/34	0.5	2700
535280	**TRADELINE 50mm C Stud**	TPS50	50	32/34	0.5	3000
535281	**TRADELINE 50mm C Stud**	TPS50	50	32/34	0.5	3600
349725	**TRADELINE 60mm C Stud**	PS60	60	32/34	0.5	2700
349744	**TRADELINE 60mm C Stud**	PS60	60	32/34	0.5	3000
349750	**TRADELINE 60mm C Stud**	PS60	60	32/34	0.5	3600
535282	**TRADELINE 70mm C Stud**	TPS70	70	32/34	0.5	2400
535283	**TRADELINE 70mm C Stud**	TPS70	70	32/34	0.5	2700
535284	**TRADELINE 70mm C Stud**	TPS70	70	32/34	0.5	3000
535285	**TRADELINE 70mm C Stud**	TPS70	70	32/34	0.5	3600
535286	**TRADELINE 70mm C Stud**	TPS70	70	32/34	0.5	4200
535292	**TRADELINE 92mm C Stud**	TPS92	92	32/34	0.5	3600
535293	**TRADELINE 92mm C Stud**	TPS92	92	32/34	0.5	4200
535294	**TRADELINE 146mm C Stud**	TPS146	146	32/34	0.5	3600
535295	**TRADELINE 146mm C Stud**	TPS146	146	32/34	0.5	4200
535296	**TRADELINE 146mm C Stud**	TPS146	146	32/34	0.5	5000
535297	**TRADELINE 146mm C Stud**	TPS146	146	32/34	0.5	6000

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
TWIN FRAME	✓
RESILIENT BAR	✓
INDEPENDENT WALL LINING	✓

TRADELINE C Studs are part of core components that forms framework for partition, shaftwall and lining systems.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



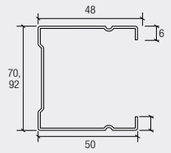
TRADELINE Heavy Duty C Stud

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
579636	**TRADELINE 70mm Heavy Duty C Stud^**	PSHD70	70	32/34	0.7	3600
579637	**TRADELINE 70mm Heavy Duty C Stud^**	PSHD70	70	32/34	0.7	4200
579638	**TRADELINE 146mm Heavy Duty C Stud^**	PSHD146	146	32/34	0.7	3600
579639	**TRADELINE 146mm Heavy Duty C Stud^**	PSHD146	146	32/34	0.7	4200

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
TWIN FRAME	✓
RESILIENT BAR	✓
INDEPENDENT WALL LINING	✓

TRADELINE Heavy Duty Studs are part of core components that forms a framework for partition, shaftwall and lining systems. Used for greater wall heights and improved robustness to BS 5234.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Acoustic Stud

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
308277	**TRADELINE 70mm Acoustic Stud^**	AS70	70	48/50	0.5	2700
308286	**TRADELINE 70mm Acoustic Stud**	AS70	70	48/50	0.5	3000
308288	**TRADELINE 70mm Acoustic Stud**	AS70	70	48/50	0.5	3600
308289	**TRADELINE 70mm Acoustic Stud^**	AS70	70	48/50	0.5	4200
308292	**TRADELINE 92mm Acoustic Stud^**	AS92	92	48/50	0.5	3600
308293	**TRADELINE 92mm Acoustic Stud^**	AS92	92	48/50	0.5	4200

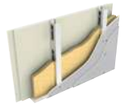
^Manufactured to order (min. quantities apply)
Project specific bespoke stud lengths available on request (min. quantities apply)

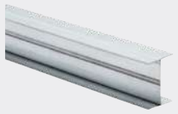
APPLICABLE SYSTEMS	
ACOUSTIC STUD	✓

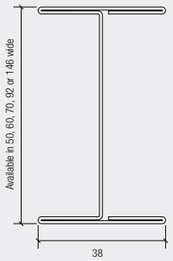
TRADELINE Acoustic duty are part of core components that forms a framework for acoustic partition system. Used for partitions with greater acoustics performance requirement.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE PARTITION & INDEPENDENT WALL LINING SYSTEM







TRADELINE I Stud

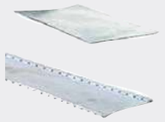
Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
579640	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	2700
579641	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	3000
579642	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	3600
535298	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	2700
535299	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	3000
535300	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	3600
535301	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	4200
535302	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	3000
535303	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	3600
535304	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	4200
535305	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	3600
535306	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	5000
535307	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	6000
535308	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	3600
535309	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	5000
535310	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	6000

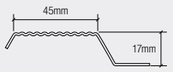
Project specific bespoke stud lengths available on request (min. quantities apply)

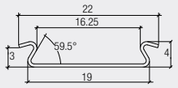
APPLICABLE SYSTEMS	
SINGLE FRAME	✓
TWIN FRAME	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE I Studs are part of core components that forms framework for partition, shaftwall and lining systems.

Used for greater wall heights and improved robustness to BS 5234. Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.







TRADELINE Metal Accessories

Code	Product Description	Product Ref.	Width (mm)	Gauge (mm)	Length (mm)
535329	**TRADELINE Flat Strap**	FS24	70	0.5	2400
535330	**TRADELINE Perforated Partition Brace**	PB24	70	0.7	2400

TRADELINE Braces are part of metal accessories that forms the partition, lining, shaftwall and beam & column encasement systems. Used to support board joints and build deflection head according to BS 8212:1995

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Resilient Bar

Code	Product Description	Product Ref.	Width (mm)	Depth (mm)	Gauge (mm)	Length (mm)
535409	**TRADELINE Resilient Bar**	RB565	45	17	0.5	3000

TRADELINE Resilient Bar is part of metal accessories that forms the framework for resilient bar partition and ceiling systems. Used to achieve better partition and ceiling acoustic performance.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Accessories

Code	Product Description	Product Ref.	Qty. Per Box
924031	**TRADELINE Plywood Service Support Plates**	ASP19B	100

TRADELINE Service Support is part of metal accessories used for supporting the plywood within the partition and lining metal framework where the service support is required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

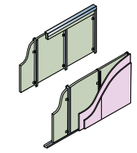
TRADELINE Accessories – Clamping Strip

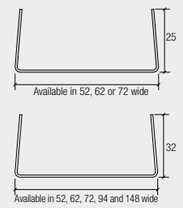
Code	Product Description	Product Ref.	Width (mm)	Gauge (mm)	Length (mm)
535411	**TRADELINE Clamping Strip Steel**	PCS20	19	0.5	2700
535412	**TRADELINE Clamping Strip Steel**	PCS20	19	0.5	3000

TRADELINE strip is part of metal accessories used in between vertical plasterboard joints and accommodates the cover trim finish as required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE SHAFT ENCASEMENT SYSTEM





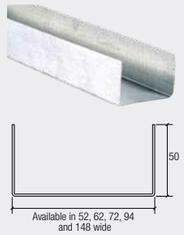
TRADELINE Standard Track

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535312	**TRADELINE 52mm Standard Track**	TPT52	52	25	0.5	3000
771818	**TRADELINE 62mm Standard Track**	PT62	62	25	0.5	3000
535316	**TRADELINE 72mm Standard Track**	TPT72	72	25	0.5	3000
535313	**TRADELINE 52mm Track (32mm leg)**	PDT52	52	32	0.5	3000
771819	**TRADELINE 62mm Track (32mm leg)**	PDT62	62	32	0.5	3000
535317	**TRADELINE 72mm Track (32mm leg)**	TPDT72	72	32	0.5	3000
535323	**TRADELINE 94mm Track (32mm leg)**	TPT94	94	32	0.5	3000
535326	**TRADELINE 148mm Track (32mm leg)**	TPT148	148	32	0.5	3000

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



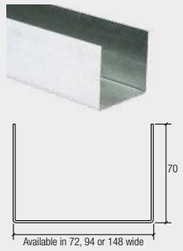
TRADELINE Deep Track 50mm Flange

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535314	**TRADELINE 52mm Deep Track**	TPEDT52	52	50	0.5	3000
535315	**TRADELINE 62mm Deep Track**	PEDT62	62	50	0.5	3000
535318	**TRADELINE 72mm Deep Track**	TPEDT72	72	50	0.5	3000
535324	**TRADELINE 94mm Deep Track**	PEDT94	94	50	0.5	3000
535327	**TRADELINE 148mm Deep Track**	TPDT148	148	50	0.5	3000

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems. Use Deep Tracks where deflection head is required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Extra Deep Track 70mm Flange

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535319	**TRADELINE 72mm Extra Deep Track**	PXDT72	72	70	0.7	3000
535325	**TRADELINE 94mm Extra Deep Track**	PXDT94	94	70	0.7	3000
535328	**TRADELINE 148mm Extra Deep Track**	PXDT148	148	70	0.7	3000

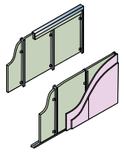
TIP If deflection head is required, please ensure that you choose the right U tracks as per the deflection head allowance guidance in page 189.

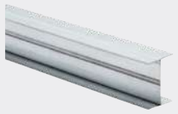
APPLICABLE SYSTEMS	
SINGLE FRAME	✓
ACOUSTIC STUD	✓
TWIN FRAME	✓
RESILIENT BAR	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

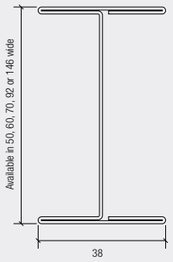
TRADELINE Tracks are part of core components that forms framework for partition, shaftwall and lining systems. Use Extra Deep Tracks where deflection head is required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE SHAFT ENCASEMENT SYSTEM







TRADELINE I Stud

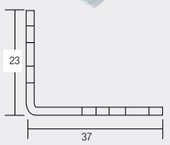
Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
579640	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	2700
579641	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	3000
579642	**TRADELINE 50mm I Stud**	PI50	50	38	0.6	3600
535298	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	2700
535299	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	3000
535300	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	3600
535301	**TRADELINE 60mm I Stud**	PI60	60	38	0.6	4200
535302	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	3000
535303	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	3600
535304	**TRADELINE 70mm I Stud**	PI70	70	38	0.7	4200
535305	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	3600
535306	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	5000
535307	**TRADELINE 92mm I Stud**	PI92	92	38	0.9	6000
535308	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	3600
535309	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	5000
535310	**TRADELINE 146mm I Stud**	PI146	146	38	0.9	6000

Project specific bespoke stud lengths available on request (min. quantities apply)

APPLICABLE SYSTEMS	
SINGLE FRAME	✓
TWIN FRAME	✓
SHAFT WALL	✓
INDEPENDENT WALL LINING	✓

TRADELINE I Studs are part of core components that forms framework for partition, shaftwall and lining systems. Used for greater wall heights and improved robustness to BS 5234.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Shaft Encasement System - Accessory

Code	Product Description	Product Ref.	Qty. Per Box
771820	**TRADELINE Shaft Encasement Fix Bracket**	ASB62B	1000

TRADELINE Shaft Encasement Fix Brackets are used in between vertical plasterboard joints and accommodates the cover trim finish as required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

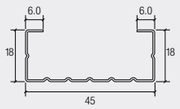
TRADELINE Metal Accessories

Code	Product Description	Product Ref.	Width (mm)	Gauge (mm)	Length (mm)
535329	**TRADELINE Flat Strap**	FS24	70	0.5	2400
535330	**TRADELINE Perforated Partition Brace**	PB24	70	0.7	2400

TRADELINE Braces are part of metal accessories that forms the partition, lining, shaftwall and beam & column encasement systems. Used to support board joints and build deflection head according to BS 8212:1995

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE COLUMN AND BEAM ENCASEMENT SYSTEM

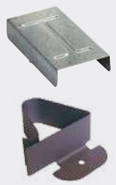


TRADELINE Wall/Ceiling Liner

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
537307	**TRADELINE Wall/Ceiling Liner**	TWL507	45	18	0.5	2400
535363	**TRADELINE Wall/Ceiling Liner**	TWL507	45	18	0.5	2700
535364	**TRADELINE Wall/Ceiling Liner**	TWL507	45	18	0.5	3000
535365	**TRADELINE Wall/Ceiling Liner**	TWL507	45	18	0.5	3600

TRADELINE Wall/Ceiling Liner is part of core components that forms framework for Column and Beam encasement system.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

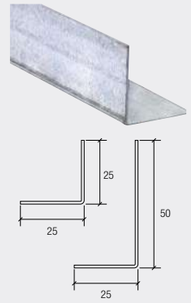


TRADELINE Column and Beam Encasement System - Accessories

Code	Product Description	Product Ref.	Qty. Per Box
445307	**TRADELINE Steel Frame Clip**	AWL10B	100
604195	**TRADELINE 38mm Channel Connectors**	AZ11B	250

TRADELINE Steel Frame clip and Channel Connectors are part of metal accessories that forms the framework for Column and Beam encasement system. Steel Frame clips are used to fix the liner channel to the flanges of column or beam, whilst channel Connectors are used to join the liner channels.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

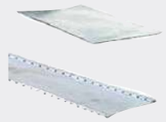


TRADELINE Angle

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535352	**TRADELINE 25 x 25mm 90° Angle**	TSL06	25	25	0.8	3000
535353	**TRADELINE 25 x 25mm 90° Angle**	TSL06	25	25	0.8	3600
535356	**TRADELINE 50 x 25mm 90° Angle**	SL12	50	25	0.8	3000
535357	**TRADELINE 50 x 25mm 90° Angle**	SL12	50	25	0.8	3600
535358	**TRADELINE 50 x 50mm 90° Angle**	SL13	50	50	0.8	3000
535359	**TRADELINE 50 x 50mm 90° Angle**	SL13	50	50	0.8	3600
535360	**TRADELINE 50 x 50mm 90° Angle**	SL26	50	50	1.5	3600

TRADELINE Angles are metal accessories used for 2 side and 3 side column and beam encasement, system to close gaps and connect to substrate for fixing plasterboards edges.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



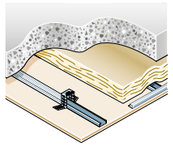
TRADELINE Metal Accessories

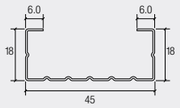
Code	Product Description	Product Ref.	Width (mm)	Gauge (mm)	Length (mm)
535329	**TRADELINE Bracing Strap**	FS24	70	0.5	2400
535330	**TRADELINE Perforated Partition Brace**	PB24	70	0.7	2400

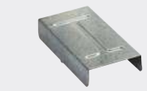
TRADELINE Braces are part of metal accessories that forms the partition, lining, shaftwall and beam & column encasement systems. Used to support board joints and build deflection head according to BS 8212:1995

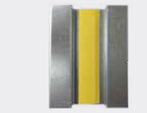
Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE WALL/CEILING LINING SYSTEM









TRADELINE Wall/Ceiling Liner Channel

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
537307	TRADELINE Wall/Ceiling Liner	TWL507	45	18	0.5	2400
535363	TRADELINE Wall/Ceiling Liner	TWL507	45	18	0.5	2700
535364	TRADELINE Wall/Ceiling Liner	TWL507	45	18	0.5	3000
535365	TRADELINE Wall/Ceiling Liner	TWL507	45	18	0.5	3600

TRADELINE Wall/Ceiling Liner is part of core components that forms framework for Wall/Ceiling Liner system. Installed with perimeter track at each ends.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Wall/Ceiling Perimeter Track

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535366	TRADELINE Perimeter Track	TWL60	19	28/18	0.5	3000

TRADELINE Wall/Ceiling Perimeter Track is part of core component that forms framework for Wall/ Ceiling Liner system. Designed to accommodate Wall/Ceiling Lining channel and position it in place.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Wall/Ceiling Lining Brackets

Code	Product Description	Product Ref.	Leg (mm)	Qty. Per Box
535367	TRADELINE Fixing Bracket 75mm Leg	AWL03B	75	100
535368	TRADELINE Fixing Bracket 125mm Leg	AWL04B	125	100
529003	TRADELINE Fixing Bracket 175mm Leg	AWL08B	175	100

TRADELINE Wall/Ceiling Liner brackets are framework component used to connect the Wall/Ceiling Liner channels back to the substrate creating a cavity.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Ceiling Lining System Timber Connectors

Code	Product Description	Product Ref.	Length (mm)	Qty. Per Box
232900	TRADELINE Ceiling Liner S Timber Connector 55mm	AWL06B	55	200
232909	TRADELINE Ceiling Liner S Timber Connector 155mm	AWL07B	155	100

TRADELINE Ceiling Lining System Timber Connector are fixed to the Timber joists and accommodates the Wall/ Ceiling Liner Channel flanges.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Accessories

Code	Product Description	Product Ref.	Qty. Per Box
535369	TRADELINE Wall/Ceiling Liner Connector	AWL05B	50
924031	TRADELINE Plywood Service Support Plates	ASP19B	100

TRADELINE Channel Connectors and Connectors are used to join the liner channels.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Service Support Plates are used for supporting the plywood within the partition and lining metal framework where the service support is required.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

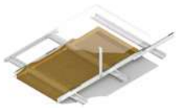
TRADELINE Wall/Ceiling Perimeter Track

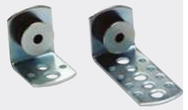
Code	Product Description	Product Ref.	Width (mm)	Gauge (mm)	Length (mm)
535329	TRADELINE Flat Strap	FS24	70	0.5	2400
535330	TRADELINE Perforated Partition Brace	PB24	70	0.7	2400

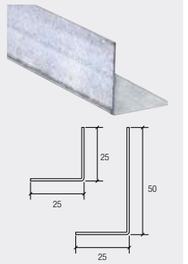
TRADELINE Braces are part of metal accessories that forms the partition, lining, shaftwall and beam & column encasement systems. Used to support board joints and build deflection head according to BS 8212:1995

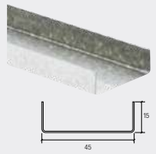
Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

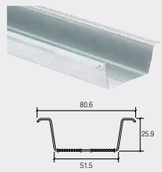
TRADELINE MF SUSPENDED CEILING SYSTEM











TRADELINE Perimeter Channel

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535371	TRADELINE Perimeter Channel	TSMF6A	26	19/26	0.5	3600

TRADELINE Perimeter Channel accommodates the MF ceiling channels across the ceiling perimeter and supports the Primary Channel ends.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE MF Metal Fixing Bracket

Code	Product Description	Product Ref.	Qty. Per Box
232911	TRADELINE Metal Angle Fixing Bracket	AMF12B	1000

TRADELINE MF Metal Fixing Brackets are fixed to the ceiling substrate using appropriate fixings and MF ceiling angles are suspended by fixing to these brackets thus forming robust MF suspended ceiling system

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Acoustic Hanger

Code	Product Description	Product Ref.	Length (mm)	Qty. Per Box
232922	TRADELINE Metal Fur S Acoustic Hanger 35mm	AAH01B	35	100
232929	TRADELINE Metal Fur S Acoustic Hanger 70mm	AAH02B	70	100

TRADELINE MF Acoustic Hangers connect suspended ceiling angles to the substrate using suitable fixing and used where enhanced acoustic performance is required.

Manufactured to BS EN 13964:2014 using Galvanised mild steel CS4 to BS1449-1:1983, Zinc Plated finish and classified as Euro Class A1 for reaction to fire.

TRADELINE Angle

Code	Product Description	Product Ref.	Width (mm)	Depth (mm)	Gauge (mm)	Length (mm)
535351	TRADELINE 22 x 22mm 90° Angle	SL04	22	22	0.8	3000
535352	TRADELINE 25 x 25mm 90° Angle	TSL06	25	25	0.8	3000
535353	TRADELINE 25 x 25mm 90° Angle	TSL06	25	25	0.8	3600
535356	TRADELINE 50 x 25mm 90° Angle	SL12	50	25	0.8	3000
535357	TRADELINE 50 x 25mm 90° Angle	SL12	50	25	0.8	3600
535358	TRADELINE 50 x 50mm 90° Angle	SL13	50	50	0.8	3000
535359	TRADELINE 50 x 50mm 90° Angle	SL13	50	50	0.8	3600
535360	TRADELINE 50 x 50mm 90° Angle	SL26	50	50	1.5	3600

TRADELINE Angles are metal accessories used for suspending MF Ceiling frame at required drop length.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Primary Channel

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535372	TRADELINE Primary Channel	TSMF7	45	15	0.7	3600

TRADELINE Primary Channel are part of core metal that forms primary metal frame work for connecting MF ceiling channels at required centres.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE Ceiling Furring Channel

Code	Product Description	Product Ref.	Width (mm)	Depth (mm)	Gauge (mm)	Length (mm)
535370	TRADELINE Ceiling Furring Channel	TSMF5	80.6	25.9	0.5	3600

TRADELINE Ceiling Furring Channel forms secondary framework for MF ceiling system and are fixed to primary channels using screws or MF connecting clips at suitable centres.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE MF Connecting Clips

Code	Product Description	Product Ref.	Qty. Per Box
535373	TRADELINE Preformed Clips	AMF9B	200

TRADELINE MF Connecting Clips connects the Ceiling Furring Channel to the Primary channels for quick installation and makes it easy to adjust Furring Channel Centres.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TIP It is recommended to screw fix Ceiling Furring Channel to Primary Channel for residential applications, see page 151.

TRADELINE SPRING TEE CEILING SYSTEM

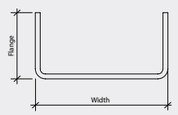
TRADELINE Spring Tee - Core Components

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535375	**TRADELINE Full Spring Tee**	SST01	43.7	27.5	0.7	3000
535376	**TRADELINE Full Spring Tee**	SST01	43.7	27.5	0.7	3600
535381	**TRADELINE White Perimeter Trim**	CF01	39	19	0.5	3000
535386	**TRADELINE T Bar (Non-spring)**	ST08	38	32	0.8	3600

TRADELINE Spring Tee system consists of easy to install metal frame components that forms primary and secondary frame to accommodate metal clip-in ceiling tiles.

- Designed for use with metal pan clip-in tiles
- Designed to be totally downward demountable

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

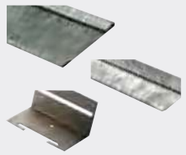


TRADELINE Ceiling Channel

Code	Product Description	Product Ref.	Width (mm)	Flange (mm)	Gauge (mm)	Length (mm)
535333	**TRADELINE 38 x 19 Ceiling Channel**	SU07	38	19	1.5	3000
535334	**TRADELINE 38 x 19 Ceiling Channel**	SU07	38	19	1.5	3600
535335	**TRADELINE 38 x 19 Ceiling Channel^**	SU07	38	19	1.5	6000
535336	**TRADELINE 63 x 25 Ceiling Channel**	SU08	63	25	1.5	3600
535337	**TRADELINE 63 x 25 Ceiling Channel**	SU08	63	25	1.5	4200
535339	**TRADELINE 63 x 25 Ceiling Channel^**	SU08	63	25	1.5	6000
535344	**TRADELINE 100 x 50 Ceiling Channel**	SU12	100	50	1.5	4800

^Manufactured to order (min. quantities apply)

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Spring Tee - Accessories

Code	Product Description	Product Ref.	Qty. Per Box
535382	**TRADELINE Full T Bar Connector**	AST01B	500
535383	**TRADELINE Border Wedge**	AST02B	100
535384	**TRADELINE Spring Tee to Channel Connector**	AST03B	200

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

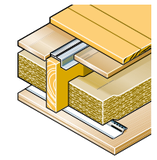
TRADELINE Spring Tee - Accessories

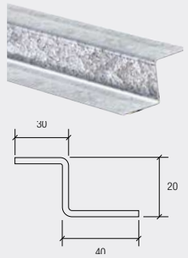
Code	Product Description	Product Ref.	Width (mm)	Depth (mm)	Gauge (mm)	Length (mm)
535352	**TRADELINE 25 x 25mm 90° Angle**	TSL06	25	25	0.8	3000
535353	**TRADELINE 25 x 25mm 90° Angle**	TSL06	25	25	0.8	3600

TRADELINE Angles are metal accessories used for suspending Spring Tee Ceiling system frame at required drop length.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE FLOATING FLOOR SYSTEM



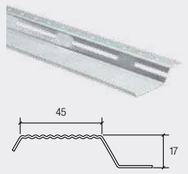


TRADELINE Acoustic Floor Zed

Code	Product Description	Product Ref.	Width (mm)	Leg (mm)	Gauge (mm)	Length (mm)
445276	**TRADELINE Acoustic Floor Zed**	FF582	40	20	0.7	2400

TRADELINE Acoustic Floor Zed systems are used in conjunction with resilient bar to achieve better acoustic performance Floor, when used with Plasterboards and insulation.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.



TRADELINE Resilient Bar

Code	Product Description	Product Ref.	Width (mm)	Depth (mm)	Gauge (mm)	Length (mm)
535409	**TRADELINE Resilient Bar**	RB565	45	17	0.5	3000

TRADELINE Resilient Bar is part of metal accessories that forms the framework for resilient bar partition and ceiling systems. Used to achieve better partition and ceiling acoustic performance.

Manufactured to BS EN 14195 using Galvanised steel DX51D+Z140+NAC to BS EN 10346:2015 and classified as Euro Class A1 for reaction to fire.

TRADELINE FIXINGS

Plasterboard Fixing length guide into metal framework

Plasterboard Board Thickness	TRADELINE Drywall Fixing Length
12.5mm or 15mm	25mm
12.5mm + 12.5mm	25mm + 38mm
12.5mm + 15mm	25mm + 42mm
15mm + 15mm	25mm + 42mm

TRADELINE BZP Drywall Screws

Code	Product Description	Length (mm)	Qty. Per Box
544674	TRADELINE BZP Drywall Screws + Bit	25	1000
544697	TRADELINE BZP Drywall Screws + Bit	32	1000
544734	TRADELINE BZP Drywall Screws + Bit	38	1000
544756	TRADELINE BZP Drywall Screws + Bit	42	1000
544801	TRADELINE BZP Drywall Screws + Bit	50	1000
544826	TRADELINE BZP Drywall Screws + Bit	65	500
544849	TRADELINE BZP Drywall Screws + Bit	75	500
418375	TRADELINE BZP Drywall Screws + Bit	100	200

For fixing plasterboard
- Driver bit supplied
- Use with **TRADELINE** Metal System Warranty

TIP

Please use appropriate fixing lengths such that the fixings penetrate through the stud by a minimum of 10mm.

TRADELINE BZP Self Drilling Drywall Screws

Code	Product Description	Length (mm)	Qty. Per Box
545092	TRADELINE BZP Self Drilling Drywall Screws + Bit	25	1000
545116	TRADELINE BZP Self Drilling Drywall Screws + Bit	32	1000
545141	TRADELINE BZP Self Drilling Drywall Screws + Bit	38	1000
545159	TRADELINE BZP Self Drilling Drywall Screws + Bit	42	1000
545184	TRADELINE BZP Self Drilling Drywall Screws + Bit	50	1000

For fixing plasterboard
- Driver bit supplied
- Use with **TRADELINE** Metal System Warranty

TRADELINE Black Drywall Screws

Code	Product Description	Length (mm)	Qty. Per Box
544663	TRADELINE Black Drywall Screws	25	1000
544693	TRADELINE Black Drywall Screws	32	1000
544729	TRADELINE Black Drywall Screws	38	1000
544751	TRADELINE Black Drywall Screws	42	1000
544796	TRADELINE Black Drywall Screws	50	1000

For fixing plasterboard
- Driver bit supplied
- Use with **TRADELINE** Metal System Warranty

TRADELINE Black Collated Drywall Screws

Code	Product Description	Length (mm)	Qty. Per Box
540060	TRADELINE Black Collated Drywall Screws	35	1000

For fixing plasterboard
- Coarse thread
- Use with **TRADELINE** Metal System Warranty

TRADELINE BZP Wafer Head Drywall Screws

Code	Product Description	Length (mm)	Qty. Per Box
545514	TRADELINE BZP Self Drill Wafer head Screws	13	1000
545540	TRADELINE BZP Non Self Drill Wafer head Screws	13	1000

For fixing metal to metal
- Driver bit supplied
- Use with **TRADELINE** Metal System Warranty

TRADELINE Flanged Head Screws

Code	Product Description	Length (mm)	Qty. Per Box
546713	TRADELINE White Flanged Head Pozi St	25	1000
543688	TRADELINE Grey Flanged Head Pozi St	25	1000
546755	TRADELINE BZP Flanged Head Pozi St	25	1000
546870	TRADELINE BZP Flanged Head Pozi St	32	1000
546970	TRADELINE BZP Flanged Head Pozi St	38	1000
546798	TRADELINE Black Flanged Head Pozi St	25	1000
546905	TRADELINE Black Flanged Head Pozi St	32	1000
547009	TRADELINE Black Flanged Head Pozi St	38	1000

For fixing metal to metal
- Use with **TRADELINE** Metal System Warranty

TRADELINE FIXINGS

TRADELINE Counter Sunk Screws

Code	Product Description	Length (mm)	Qty. Per Box
546487	TRADELINE BZP Counter Sunk Screw	38	1000

Suitable for base materials including concrete, masonry and wood
- Countersunk Head
- Self-Drilling
- Suitable for Base Materials

TRADELINE Nuts & Bolts

Code	Product Description	Length (mm)	Qty. Per Box
543696	TRADELINE Steel Rivet	8	500
543743	TRADELINE Steel Rivet	10	500
543767	TRADELINE White Rivet	10	500
543974	TRADELINE Steel ND Anchor	25	100
544275	TRADELINE Wedge Nut	6	100
545876	TRADELINE Penny Washer	25	500
545937	TRADELINE Penny Washer	32	500
544659	TRADELINE Roof Nut & Bolt	12	200
544686	TRADELINE Roof Nut & Bolt	16	200
544747	TRADELINE Roof Nut & Bolt	25	200
544770	TRADELINE Roof Nut & Bolt	30	200
544793	TRADELINE Roof Nut & Bolt	60	200
544815	TRADELINE Roof Nut & Bolt	80	100
544135	TRADELINE Eyelet Bolt	80	100

Suitable for heavy duty anchoring into concrete, brick, stone, wood and concrete block
- Non-expansion through fixing
- Easy insertion and high pull-out resistance

TRADELINE Metal Nailin Anchors

Code	Product Description	Length (mm)	Qty. Per Box
544056	TRADELINE Metal Nailin	30	200
544070	TRADELINE Metal Nailin	40	100
117879	TRADELINE Metal Nailin	50	100
860160	TRADELINE Metal Nailin	65	100

Lightweight through fixing for use in concrete, solid brickwork and stone. Not recommended for overhead applications such as suspended ceilings
- Through-fixing
- Only hammer required for final fix

TRADELINE Nylon Hammerfix

Code	Product Description	Length (mm)	Qty. Per Box
548622	TRADELINE Hammerfix	30	300
543360	TRADELINE Hammerfix	40	200
543404	TRADELINE Hammerfix	50	100
543428	TRADELINE Hammerfix	60	100
543450	TRADELINE Hammerfix	80	100
543498	TRADELINE Hammerfix	60	150
543514	TRADELINE Hammerfix	80	150
543539	TRADELINE Hammerfix	100	100
543563	TRADELINE Hammerfix	120	100

Suitable for all solid masonry
- Quick and simple installation
- Integral setting lock prevents pre-expansion
- Rigid reinforced collar
- Easy tap-in, easy screw-out

TRADELINE Plastic Plugs

Code	Product Description	Qty. Per Box
547888	TRADELINE Plastic Plugs Red	100
547919	TRADELINE Plastic Plugs Brown	100

Suitable for concrete, solid brick, natural stone and lightweight concrete
- All purpose cost effective plug fixing for medium and lightweight applications
- Profiled body for extra grip
- Anti-rotation features prevent spinning in the hole

TRADELINE METAL COMPONENTS | TRADELINE FIXINGS

TRADELINE FIXINGS

TRADELINE Nails

Code	Product Description	Length (mm)	Qty. Per Box
548116	TRADELINE Light Masonry Nail	25	200
548145	TRADELINE Light Masonry Nail	30	200
548163	TRADELINE Light Masonry Nail	40	200
548187	TRADELINE Light Masonry Nail	50	200
548302	TRADELINE Medium Masonry Nail	25	200
548329	TRADELINE Medium Masonry Nail	30	200
548355	TRADELINE Medium Masonry Nail	35	200
548373	TRADELINE Medium Masonry Nail	40	200
548393	TRADELINE Medium Masonry Nail	50	200
548425	TRADELINE Medium Masonry Nail	60	200
548559	TRADELINE Washered Nail	60	200
544849	TRADELINE BZP Drywall Screws + Bit	75	500
418375	TRADELINE BZP Drywall Screws + Bit	100	200

Suitable for general construction applications
- Corrosion-resistant

TRADELINE FINISHING SOLUTIONS

TRADELINE Acoustic Intumescent Sealant

Code	Product Description	Volume (ml)
573339	TRADELINE Acoustic Intumescent Sealant - White	310
581339	TRADELINE Acoustic Intumescent Sealant Foil Pack - White	600
185201	TRADELINE Acoustic Intumescent Sealant - White	900

TRADELINE Acoustic Intumescent sealant for sealing air gaps within drylining systems

TRADELINE Ready Mixed Compound

Code	Product Description	Volume (L)
698336	TRADELINE Lightweight All Purpose Joint Compound	20

TRADELINE Joint Compound, perfect for filling, finishing joints and bedding tapes

TRADELINE Drywall Self-Adhesive Joint Tape

Code	Product Description	Width (mm)	Length (m)
457264	TRADELINE Drywall Tape	48	90

TRADELINE fibreglass mesh drywall tape for stronger and thinner joints
- Eliminates Blisters and Bubbles
- Mould Resistant
- High strength
- Easy to apply

TRADELINE Flexible Metal Corner Tape

Code	Product Description	Width (mm)	Length (m)
245282	TRADELINE Flexible Metal Corner Tape	50	30

TRADELINE Flexible Metal Corner Tape provides straight strong corners on any inside or exterior angle
- Ideal for various taping applications including vaulted ceilings, archways or bay windows

TRADELINE Paper Joint Tape

Code	Product Description	Width (mm)	Length (m)
245311	TRADELINE Paper Joint Tape	50	150

TRADELINE Paper Joint Tape is suitable for hand or mechanical application with all jointing compounds
- Roughened surface for superior bond
- Accurately center-creased to improve corner treatment

TRADELINE ACCESS PANEL SOLUTIONS

TRADELINE ACCESS PANELS

TRADELINE Plastic Access Panel

Code	Product Description	Depth (mm)	Length (mm)	Width (mm)
432201	SAS Handi Access Panel PICFR 225 x 150mm	20	225	150
432199	SAS Handi Access Panel PICFR 300 x 300mm	20	300	300

Plastic Panels are an easily installed panel providing access into jointless plaster/plasterboard and suspended ceilings where access to services is required

- Slimline only 20mm deep
- No key required
- Concealed hinges

TRADELINE Metal Access Panel

Code	Product Description	Depth (mm)	Length (mm)	Width (mm)
433008	TRADELINE/SAS Metal Acc Panel PICFR BDG Lock	50	300	300
433007	TRADELINE/SAS Metal Acc Panel PICFR BDG Lock	50	450	450
432202	TRADELINE/SAS Metal Acc Panel PICFR BDG Lock	50	600	600
432197	TRADELINE/SAS Metal Acc Panel BEADFR BDG Lock	50	300	300
432193	TRADELINE/SAS Metal Acc Panel BEADFR BDG Lock	50	450	450
432190	TRADELINE/SAS Metal Acc Panel BEADDFR BDG Lock	50	600	600

TRADELINE Metal Access Panels are a series range of steel lockable access panels provide access into jointless plaster/ plasterboard and suspended ceilings where access to services is required

- Slimline only 35mm deep
- Frame options to suit finishing requirements
- Concealed hinges

TRADELINE DRYLINING SYSTEMS

CONCISE GUIDE TABLES

PARTITION AND LININGS

Deflection Head Track and Packer board guidance

Required Deflection	Head Track Leg length	Minimum Board Thickness
Up to 10mm	50mm	1 x 15mm
Up to 15mm	50mm	2 x 12.5mm
Up to 25mm	50mm	2 x 15mm
Up to 30mm	50mm	3 x 12.5 or 2 x 19mm
Up to 40mm	70mm	3 x 15mm
Up to 45mm	70mm	3 x 19mm

Please ensure that the facing board overlaps min. of 5mm with the Packer board

Plasterboard Fixing length guide into metal framework

Plasterboard Board Thickness	TRADELINE Drywall Fixing Length
12.5mm or 15mm	25mm
12.5mm + 12.5mm	25mm + 38mm
12.5mm + 15mm	25mm + 42mm
15mm + 15mm	25mm + 42mm

Partitions - Acoustic Performance Predicted Decrease

Partition Insulation Configuration	Stud centres	
	400mm	300mm
No Insulation	-2 RwdB	-3 RwdB
Min. 25mm insulation	-0 RwdB	-2 RwdB

Based on the use of C Studs, a further 2dB reduction may apply if using I Studs

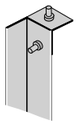
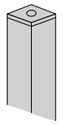
Curved Partition Track

Required Radius (m)	Track snipping centres (mm)	Studs centres (mm)
1-3	50	150
3-5	100	300
5+	300	600

Please ensure each segment of track suitably secured to the floor and soffit.

CEILINGS

MF Ceiling System – Fixing centres and Maximum Loads

		 Suspending using TRADELINE angle cleats	 Suspending by fixing angle direct to soffit with approved detail
Angle Suspension Point Centres	TSMF7 Primary Channel Centres	"Angle Cleat Fixing Method Maximum UDL Weight (Including Board)"	"Angle Direct Fixing Method Maximum UDL Weight (Including Board)"
1200 mm	1200mm	30 kg / m²	22 kg / m²
1200 mm	900mm	40 kg / m²	30 kg / m²
1200 mm	600mm	60 kg / m²	45 kg / m²

Ceiling Liner - Channel Centres Guide

Board thickness (mm)	Board Length (mm)	Ceiling Liner Channel (WL507) Ctrs (mm)
12.5mm, 15mm & 19mm	2400/3600	400
	1800/2700	450

Ceiling Liner - Brackets/Timber Connector centre

Board Layers & Thickness	Maximum brackets centres (mm)
1 x 9.5mm Plasterboard	900
1 x 12.5mm Plasterboard	900
1 x 15mm Plasterboard	900
All double layer plasterboards	600

Resilient Bar Ceiling System – Maximum centres & load

Centres (mm)	Uniformly Distributed Load (kg/m²)
400	35
450	30

CONCISE HEIGHT TABLES – TRADELINE PARTITION SYSTEM

Maximum Height - Single Stud Frame Partitions

No. of Layers	Board Thickness (mm)	Maximum Height (metres) Stud Centres								
		600mm	400mm	300mm	600mm	400mm	300mm	600mm	400mm	300mm
		50mm C Stud						50mm I Stud		
1	12.5	2.5	2.8	2.9				2.8	3.3	3.6
1	15	2.8	3.1	3.2				3.1	3.5	3.8
2	12.5	3.4	4.0	4.1				3.7	4.0	4.3
2	15	3.7	4.3	4.4				3.9	4.3	4.5
		70mm C Stud			70mm Heavy Duty C Stud			70mm I Stud		
1	12.5	3.6	3.9	4.0	4.0	4.4	4.6	4.4	4.9	5.4
1	15	3.8	4.1	4.2	4.2	4.6	4.8	4.6	5.1	5.5
2	12.5	4.6	5.2	5.4	4.8	5.3	5.6	5.3	5.7	6.0
2	15	4.9	5.5	5.7	5.3	5.5	5.9	5.5	5.9	6.2
		92mm C Stud						92mm I Stud		
1	12.5	3.9	4.2	4.3				5.4	6.2	6.8
1	15	4.4	4.7	4.8				5.5	6.3	6.9
2	12.5	5.2	5.8	5.9				6.2	7.1	7.6
2	15	5.9	6.5	6.7				6.3	7.2	7.8
		146mm C Stud			146mm Heavy Duty C Stud			146mm I Stud		
1	12.5	6.2	6.5	6.6	6.6	7.2	7.5	7.9	8.2	8.5
1	15	6.5	6.8	6.9	6.9	7.5	7.8	8.1	8.5	8.8
2	12.5	7.6	8.2	8.4	8.2	8.6	9.0	8.8	9.6	10.0
2	15	7.9	8.5	8.7	8.5	9.0	9.2	9.0	9.8	10.2

Maximum heights are calculated based on a limiting deflection of L/240 at 200 Pascals. For Non-Fire Rated Partitions or Fire Rated to BS476 Part 22:1987 only.

Maximum Height - Twin C Stud Frame Partitions

Twin Stud Partition - C Stud Braced Frame @ 600mm ctrs

Wall Width (mm)	Twin Frame - Stud Width (mm)	Board Layers	Board Thickness (mm)	Max. Partition Height (m)
Up to 300	50	2	15 or 12.5	6.2
Up to 300	60	2	15 or 12.5	6.2
300	70	2	15 or 12.5	7
300	92	2	15 or 12.5	8
550	146	2	15 or 12.5	10

Based on Twin Frame Braced @ max. 1200mm vertical centres
Fire Rated to BS476 Part 22:1987 only.

Maximum Height - Twin I Stud Frame Partitions

Twin Stud Partition - I Stud Unbraced Frame @ 600mm ctrs

Board Layers	Board Thickness (mm)	Twin Frame - Stud Width (mm)	Max. Partition Height (m)
2	15 or 12.5	50	2.7
2	15 or 12.5	60	3.3
2	15 or 12.5	70	3.9
2	15 or 12.5	90	5.4
2	15 or 12.5	146	7.2

Maximum heights are calculated based on a limiting deflection of L/240 at 200 Pascals.
For Non-Fire Rated Partitions or Fire Rated to BS476 Part 22:1987 only.

Head and Base Tracks

- Standard tracks have 25mm or 32mm legs **and are** used for partition heights under 4m.
- Deep tracks have 50mm legs and used for partition heights between 4m and 8m at the head and base. Also used as a head track where a deflection head of up to 30mm is required.
- Extra deep tracks have 70mm legs and used for partition heights between 8m and 10.2m at the head and base. Also used as a head track where a deflection head of up to 45mm is required.

CONCISE HEIGHT TABLES – TRADELINE INDEPENDENT WALL LINING SYSTEM

Independent Wall Lining – Maximum Heights

Stud Ref.	Boarding Configuration	Unbraced Max. Height (mm)	
		600mm Stud Centres	400mm Stud Centres
PI50	1 x 12.5mm	2400	2700
	1 x 15mm	2400	2700
	2 x 12.5mm	2700	3300
	2 x 15mm	2700	3300
PI60	1 x 12.5mm	2700	3000
	1 x 15mm	2700	3000
	2 x 12.5mm	3300	3900
	2 x 15mm	3300	3900
PI70	1 x 12.5mm	3000	3300
	1 x 15mm	3000	3300
	2 x 12.5mm	3900	4500
	2 x 15mm	3900	4500
PI92	1 x 12.5mm	4500	4800
	1 x 15mm	4500	4800
	2 x 12.5mm	5400	6000
	2 x 15mm	5400	6000
PI146	1 x 12.5mm	6900	7200
	1 x 15mm	6900	7200
	2 x 15mm	7200	7800
	2 x 15mm	7200	7800

Maximum heights are calculated based on a limiting deflection of L/240 at 200 Pascals. For Non-Fire Rated Partitions or Fire Rated to BS476 Part 22:1987 only.

Head and Base Tracks

- Standard tracks have 25mm or 32mm legs **and are** used for partition heights under 4m.
- Deep tracks have 50mm legs and used for partition heights between 4m and 8m at the head and base. Also used as a head track where a deflection head of up to 30mm is required.
- Extra deep tracks have 70mm legs and used for partition heights between 8m and 10.2m at the head and base. Also used as a head track where a deflection head of up to 45mm is required.

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