

TWI50-K-60(50) - SPEEDLINE METAL STUD PARTITION

Type & Ref: Version V1(24/10/23)

SPEEDLINE Reference: TWI50-K-60(50)(200)

Performance Overview:

Fire Resistance (minutes): 120/120 (Integrity/Insulation) BS 476 Part 22: 1987 Sound Insulation: 65 R_wdB (-3,-9) estimated on TWI50-K-59(50)(200) Maximum Height: Calculated on limiting deflection L/240 at 200Pa

2700 mm @ 600 mm Ctrs: @ 400 mm Ctrs: 3300 mm @ 300 mm Ctrs: 3600 mm

Nominal Width: Min 200 mm. (Excluding finishes). Width can be increased to project requirements.

Insulation Required:

Duty Rating: Severe. BS 5234-2:1992 (Annexes A-F)

Deflection Required: To be confirmed by Structural Engineers. (Max 25mm on 50mm studs)

Steel Framing Detail: All as per the current SPEEDLINE Drywall Manual.

Head Tracks: Two parallel lines of SPEEDLINE SPT52 'U' Track, secured to soffit, in the centre of

the profile at 600 mm centres with suitable fixings. (Utilise SPEEDLINE Deep Flange

'U' Track if deflection allowance is required).

Base Tracks: Two parallel lines of SPEEDLINE SPT52 'U' Track, secured to floor in the centre of the

profile, with suitable fixings.

The two frames are installed using SPEEDLINE PI50 'I' Studs at 600 mm centres. Studs:

Friction fitted into tracks. (400 mm centres if to be tiled). Abutment 'C' studs secured

at max 600 mm centres, with suitable fixings.

Stud Bracing: No Stud bracing is required.

Deflection Head: If structural deflection is deemed necessary, please refer to SPEEDLINE Drywall

Manual and/or project detail.

Plasterboard linings:

Inner Layer: 15 mm Knauf Soundshield Plus attached to both sides of framing at 600 mm

maximum centres with 25 mm SPEEDLINE Drywall Screws.

Outer Layer: 15 mm Knauf Soundshield Plus attached to both sides of framing at 300 mm

maximum centres with 42 mm SPEEDLINE Drywall Screws.

Humid Areas: Replace with 15 mm Knauf Performance Plus attached to framing at 300 mm

maximum centres with 42 mm SPEEDLINE Drywall Screws.

Boarding Installation: All plasterboard joints to be staggered on opposing partition faces.

Horizontal Board Joints: SPEEDLINE PB24 Partition Brace or FS24 Flat Bracing Strip required behind all

horizontal board joints.

Skim plaster or taped & jointed (MR Boards to be taped & jointed only). Finishes:

At junctions between partitions and any other air paths, apply a continuous bead of Acoustic Seal:

SPEEDLINE Intumescent Sealant, to clean dust free surfaces. Please Note: SPEEDLINE

Intumescent Sealant is NOT compatible with Lubrizol cPVC pipes.

Service Support Plate AH174 & 18 mm Plywood for all pattresses. Accessories:

> Electrical socket openings should be considered as part of the fire stopping package and consideration should be given to meet the performances of the Partition/Lining

system regarding fire and acoustic performance.

SPEEDLINE Drywall Systems, Adsetts House, 16 Europa View, Sheffield Business Park, Sheffield, S9 1XH.

Tel: 0114 231 8030.

Email: enquiries@speedlinedrywall.co.uk

(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 Speedline Metal Sections to SIG Plc)



General Notes:

To be installed in accordance with SPEEDLINE recommendations and relevant British standards including BS 8000-0:2014 and BS 8000-8:2023.

This document should be read in conjunction with clauses specified in original contract documentation. Flanking details to be appropriate to current requirements.