

TWC50-K-62(2x50) - SPEEDLINE METAL STUD PARTITION

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

SPEEDLINE Reference: TWC50-K-62(2x50)⁽²⁰⁰⁾

Performance Overview:

Fire Resistance (minutes): 120/120 (Integrity/Insulation) BS 476 Part 22: 1987
 Sound Insulation: 64 R_wdB (-2,-8) Tested
Maximum Height: Calculated on limiting deflection L/240 at 200Pa
 @ 600 mm Ctrs: 6200 mm
 Nominal Width: Min 200 mm. (Excluding finishes). Width can be increased to project requirements.
 Insulation Required: 2x50 mm APR.
 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:

Head Tracks: All as per the current **SPEEDLINE** Drywall Manual.
 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.
Studs: The two frames are installed using **SPEEDLINE SPS50 'C' Studs** at 600 mm centres. 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: The two frames linked and braced to each other at 1200 mm centres, using short lengths of **SPEEDLINE PB24** partition brace.
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 Fire Panel attached to both sides of framing at 300 mm maximum centres with **25 mm SPEEDLINE Drywall Screws**.
Outer Layer: 15 mm Knauf Fire Panel 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.

Finishes:

Acoustic Seal: Skim plaster or taped & jointed (MR Boards to be taped & jointed only).
 At junctions between partitions and any other air paths, apply a continuous bead of **SPEEDLINE Intumescent Sealant**, to clean dust free surfaces. Please Note: **SPEEDLINE Intumescent Sealant** is NOT compatible with Lubrizol cPVC pipes.

Accessories:

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

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. This system will satisfy the loadbearing capacity criteria of BS 476:Part 21:1987 for a period of at least 60 minutes provided that the section factor is less than 250m^{-1} for four sided exposure and the applied load is no greater than 60% of the load capacity as calculated in accordance with EN 1993-1-1:2005+A1:2014