

## TWC50-B-60(50) - SPEEDLINE METAL STUD PARTITION

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

**SPEEDLINE Reference:** TWC50-B-60(50)<sup>(200)</sup>

### **Performance Overview:**

Fire Resistance (minutes): 90/90 (Integrity/Insulation) BS 476 Part 22: 1987  
 Sound Insulation: 62 R<sub>w</sub>dB (-3,-9) estimated on TWC50-B-60(50)(200)  
**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: 50 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 British Gypsum Gyproc SoundBloc attached to both sides of framing at 600 mm maximum centres with **25 mm SPEEDLINE Drywall Screws**.  
**Outer Layer:** 15 mm British Gypsum Gyproc SoundBloc attached to both sides of framing at 300 mm maximum centres with **42 mm SPEEDLINE Drywall Screws**.  
**Humid Areas:** Replace with 15 mm British Gypsum Gyproc SoundBloc MR 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.