

## TWI92-S-60(2x50) - SPEEDLINE METAL STUD PARTITION

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

**SPEEDLINE Reference:** TWI92-S-60(2x50)<sup>(250)</sup>

### **Performance Overview:**

Fire Resistance (minutes): 90/90 (Integrity/Insulation) BS 476 Part 22: 1987  
 Sound Insulation: 69 R<sub>w</sub>dB (-2,-8) estimated on TWI50-S-60(2x20)(200)  
**Maximum Height:** Calculated on limiting deflection L/240 at 200Pa  
 @ 600 mm Ctrs: 5400 mm  
 @ 400 mm Ctrs: 6000 mm  
 @ 300 mm Ctrs: 6300 mm  
 Nominal Width: Min 250 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 Engineer.

### **Steel Framing Detail:**

Head Tracks: All as per the current **SPEEDLINE** Drywall Manual.  
 Two parallel lines of **SPEEDLINE SPT94 'U' Track**, secured to soffit with two rows of suitable fixings at 600 mm centres, staggered by 300 mm to each side of track. (Utilise **SPEEDLINE Deep Flange 'U' Track** if deflection allowance is required).  
 Base Tracks: Two parallel lines of **SPEEDLINE SPT94 'U' Track**, secured to floor with two rows of suitable fixings at 600 mm centres, staggered by 300 mm to each side of track.  
 Studs: The two frames are installed using **SPEEDLINE PI92 'I' Studs** at 600 mm centres. Friction fitted into tracks. (400 mm centres if to be tiled). Abutment 'C' studs secured with two rows of suitable fixings at 600 mm centres, staggered by 300 mm in each side of stud.  
 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 Siniat GTEC dB Board attached to both sides of framing at 600 mm maximum centres with **25 mm SPEEDLINE Drywall Screws**.  
 Outer Layer: 15 mm Siniat GTEC dB Board attached to both sides of framing at 300 mm maximum centres with **42 mm SPEEDLINE Drywall Screws**.  
 Humid Areas: Replace with 15 mm Siniat GTEC Fire MR Board 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.