

## 146-K-54(100) - SPEEDLINE METAL STUD PARTITION

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

**SPEEDLINE Reference:** 146-K-54(100)

### **Performance Overview:**

Fire Resistance (minutes): 60/60 (Integrity/Insulation) BS 476 Part 22: 1987  
 Sound Insulation: 48 R<sub>w</sub>dB estimated on 92-K-54(100)  
**Maximum Height:** Calculated on limiting deflection L/240 at 200Pa  
 Structural Engineer should be consulted re any additional load/wind requirements.  
 @ 600 mm Ctrs: 6500 mm  
 @ 400 mm Ctrs: 6800 mm  
 @ 300 mm Ctrs: 6900 mm  
 Nominal Width: 178 mm. (Excluding finishes).  
 Insulation Required: 100 mm APR.  
 Duty Rating: Severe. BS 5234-2:1992 (Annexes A-F)  
 Deflection Required: To be confirmed by Structural Engineer.

### **Steel Framing Detail:**

All as per the current **SPEEDLINE** Drywall Manual.  
**Head Tracks:** **SPEEDLINE SPT148 '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:** **SPEEDLINE SPT148 '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:** **SPEEDLINE SPS146 'C' 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.  
**Deflection Head:** If structural deflection is deemed necessary, please refer to **SPEEDLINE** Drywall Manual and/or project detail.

### **Plasterboard linings:**

**Outer Layer:** 15 mm Knauf Soundshield Plus attached to both sides of framing at 300 mm maximum centres with **25 mm SPEEDLINE Drywall Screws**.  
**Humid Areas:** Replace with 15 mm Knauf Performance Plus attached to framing at 300 mm maximum centres with **25 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.