

## SE146-K-56 – SPEEDLINE SHAFT ENCASUREMENT

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

**SPEEDLINE Reference:** SE146-K-56

**Performance Overview:**

Fire Resistance (minutes): 60/60 (Integrity/Insulation) BS 476 Part 22: 1987 from Shaft side only  
 Sound Insulation: 40 R<sub>w</sub>dB estimated  
 Maximum Height: 7200 mm (Calculated on limiting deflection L/240 at 200Pa)  
 Nominal Width: 163 mm. (Excluding finishes).  
 Insulation Required: NA.  
 Duty Rating: Heavy. BS 5234-2:1992 (Annexes A-F)  
 Deflection Required: To be confirmed by Structural Engineer.

**Steel Framing Detail:**

Head Tracks: **SPEEDLINE SPEDT148** secured to ceiling with two rows of suitable fixings at 600 mm centres, staggered by 300 mm each side.  
 Base Tracks: **SPEEDLINE SPT148** secured to the floor with two rows of suitable fixings at 600 mm centres, staggered by 300 mm each side.  
 Studs: Install row of **SPEEDLINE PI146** (146 mm) 'I' stud friction fitted into tracks at 600 mm centres.  
 Vertical Abutments: Install **SPEEDLINE SPEDT148 Deep Flange 'U' Track**, secured with two rows of suitable fixings at 600 mm centres, staggered by 300 mm each side.  
 Deflection Head: If structural deflection is deemed necessary, please refer to **SPEEDLINE** Drywall Manual and/or project detail.

**Plasterboard linings:**

Shaft Side: Single layer of Knauf 19 mm Coreboard installed between the studs secured with **AH180 Shaft Encasement Brackets**, at 600 mm maximum centres. First & last clip 150 mm Max from tracks. Coreboard should be cut short by deflection allowance. Head packer to suit deflection, should be installed between studs and screw fixed to head track with min three fixings ensuring a minimum 4 mm overlap of internal head packer & core board lining. Refer to **SPEEDLINE** Drywall Manual or project details.  
 Horizontal joints in Coreboard layer should be covered with a 100 mm wide strip of core board, screw fixed & sealed with **SPEEDLINE Intumescent Sealant**.  
 Outer Layer: 15 mm Knauf Fire Panel attached to 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**.  
 Horizontal Board Joints: **SPEEDLINE PB24** Partition Brace or **FS24** Flat Bracing Strip required behind all horizontal board joints.  
**Finishes:** Skim plaster or taped & jointed (MR Boards to be taped & jointed only).  
 Acoustic Seal: 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.