

**SE146-B-61(25) – SPEEDLINE SHAFT ENCASEMENT**

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

**SPEEDLINE Reference:** SE146-B-61(25)

**Performance Overview:**

Fire Resistance (minutes): 90-Int/90-Ins from Shaft side  
 (BS476 Part 22:1987) 90-Int/60-Ins from Landing side -See Note \*2  
 Sound Insulation: 50 R<sub>w</sub>dB  
 Maximum Height: 7500 mm (Calculated on limiting deflection L/240 at 200Pa)  
 Nominal Width: 173 mm. (Excluding finishes).  
 Insulation Required: 25 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: **SPEEDLINE SPEDT148 Deep Flange 'U' Track** 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.  
 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 British Gypsum Gyproc 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 core board layer should be covered with a 100 mm wide strip of core board, screw fixed & sealed with **SPEEDLINE Intumescent Sealant**.  
 Inner Layer: 12.5 mm British Gypsum Gyproc FireLine attached to framing at 600 mm maximum centres with **25 mm SPEEDLINE Drywall Screws**.  
 Outer Layer: 12.5 mm British Gypsum Gyproc FireLine attached to framing at 300 mm maximum centres with **38 mm SPEEDLINE Drywall Screws**.  
 Humid Areas: Replace with 12.5 mm British Gypsum Gyproc FireLine MR attached to framing at 300 mm maximum centres with **38 mm SPEEDLINE Drywall Screws**.  
 Boarding Installation: **The outer layer of plasterboard must be fixed with all joints staggered in relation to the inner layer.**  
 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.  
?Note: When exposed to fire on the landing side, these systems did not satisfy the insulation performance criteria on the framing members. Therefore, when specifying this system, it must be checked with the relevant approval authority, for the building project that this is acceptable, perhaps on the grounds that there will be no combustible material in close proximity, of the framing sections within the shaft. The system **will** satisfy the insulation criteria for 60 minutes if the studs are included.