



Technical Data Sheet

Isover Protect Service Transit

General Product Description

Isover Protect Service Transit has been designed to maintain the fire resistance of walls and floors when these are breached by continuous cables, pipes and ducts.

Isover Protect Service Transit consists of a circular or rectangular high temperature shell containing a graphite based intumescent lining material, which expands upon heating to seal spaces or voids around service penetrations, thus preventing the passage of flames, smoke and gases.

After installation of Isover Protect Service Transit, services can be retrofitted without having to install a new fire seal. Isover Protect Service Transit is available in three different lengths, 150mm, 250mm and 400mm. The selection of which to use depends on the thickness of the supporting construction and the required use.

Properties & Precautions

- Safe, easy and quick to fire stop service penetrations
- Ideal for installations where it is likely that services will be inserted or replaced later on
- Ideal for installations in tight spaces where it will be difficult to install a normal fire seal at a later stage in the building construction
- A plug in the middle prevents penetration of cold smoke (see air permeability tests on the next page) Note: FD transits does not require plugs
- New patented fast expanding graphite material
- For cables, conduits, plastic pipes, steel pipes and plastic ducts
- Classified for fire sealing all types of constructions; drywalls, masonry or concrete walls, timber walls, concrete floors and timber floors
- Can be fitted several ways; cast in concrete, friction fitted in concrete, masonry or gypsum, or inserted in larger apertures with Isover Protect Acrylic, Isover Protect Coated Board or Isover Protect Mortar
- Very high fire classifications up to 240 minutes for both integrity and insulation
- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes plus all kinds of cables
- No emissions - environmentally and user friendly
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

Sound Insulation

Description	Sound reduction
Service Transit's in all sizes	Rw 64 dB

The sound insulation value is only valid for the Service Transit and not for other elements in the building construction. Tested according to EN ISO 10140-2:2010.

Sizes, Types and Intended Use

FR Isover Protect Service Transits were originally designed to be positioned central within walls, but can also be positioned central within floors.

FF Isover Protect Service Transits were designed specifically for floors, where they are positioned flush with the soffit side considering they may be fixed to shutters before the concrete is casted. The plastic tube superseding the top side of the floor may also be cut off, so they are flush with both sides of the floor (optional).

FD Isover Protect Service Transits were specifically designed for plastic rectangular ducts, and are the only products with a steel casing instead of plastic tubes.

Size	Type	Intended Use
OD Ø40 ID 33.8 x 150 mm	FR	Flexible and rigid walls from 75mm to 150mm thick
OD Ø63 ID 53.4 x 150 mm	FR	
OD Ø90 ID 75.8 x 150 mm	FR	
OD Ø110 ID 95.0 x 150 mm	FR	
OD Ø40 ID 33.8 x 250 mm	FR	Flexible, rigid and timber walls from 100mm to 210mm thick, or rigid and timber floors from 150mm to 210mm thick
OD Ø63 ID 53.4 x 250 mm	FR	
OD Ø90 ID 75.8 x 250 mm	FR	
OD Ø110 ID 95.0 x 250 mm	FR	
OD Ø40 ID 33.8 x 400 mm	FR	Flexible, rigid and timber walls, or rigid and timber floors from 211mm to 400mm thick
OD Ø63 ID 53.4 x 400 mm	FR	
OD Ø90 ID 75.8 x 400 mm	FR	
OD Ø110 ID 95.0 x 400 mm	FR	
OD Ø40 ID 33.8 x 150 mm	FF	Rigid and timber floors 150mm thick
OD Ø110 ID 95.0 x 150 mm	FF	
OD Ø40 ID 33.8 x 250 mm	FF	Rigid and timber floors from 151mm to 250mm thick
OD Ø110 ID 95.0 x 250 mm	FF	
OD Ø40 ID 33.8 x 400 mm	FF	Rigid and timber floors from 251mm to 400mm thick
OD Ø110 ID 95.0 x 400 mm	FF	
OD Ø126 x 68 x 250 mm	FD	Flexible, rigid and timber walls from 100mm to 250mm thick
OD Ø240 x 108 x 250 mm	FD	

Air Permeability

Positive Pressure (Pa)	Leakage (m ³ /h)	Negative Pressure (Pa)	Leakage (m ³ /h)
25	0.08	25	0.18
50	0.14	50	0.29
100	0.35	100	0.46
200	0.62	200	0.88
300	1.44	300	1.33
450	2.18	450	1.82
600	3.24	600	2.66

Positive Pressure (Pa)	Leakage (m ³ /h)	Negative Pressure (Pa)	Leakage (m ³ /h)
25	0.05	25	0.14
50	0.13	50	0.24
100	0.36	100	0.40
200	0.75	200	0.63
300	1.50	300	1.40
450	2.64	450	1.97
600	3.60	600	2.72

Positive Pressure (Pa)	Leakage (m ³ /h)	Negative Pressure (Pa)	Leakage (m ³ /h)
25	0.14	25	0.35
50	0.26	50	0.47
100	0.66	100	0.72
200	1.30	200	1.38
300	2.46	300	2.52
450	3.89	450	3.53
600	4.80	600	4.27

Positive Pressure (Pa)	Leakage (m ³ /h)	Negative Pressure (Pa)	Leakage (m ³ /h)
25	1.43	25	1.43
50	1.87	50	2.29
100	3.59	100	3.84
200	6.19	200	6.51
300	8.63	300	9.00
450	11.70	450	11.60
600	14.43	600	14.15

Tested according to EN 1026: 2016.

Technical Data

Durability according to ETAG 026-2	Z ₂ intended for use in internal conditions with humidity classes other than Z ₁ , excluding temperatures below 0 °C.
Tube	High temperature resistant plastic, or steel
Plug	AES fiber 128 kg/m ³
Conditioning procedure	EN 13238:2010
Expansion ratio	1:17
Expansion pressure	65.4 N
Colour	White tube or rectangular steel with anthracite inlay
Graphite weight	1.4 kg/m ² per mm thickness
Graphite density	1409 kg/m ³
Normal expansion time	Approx. 1 minute
Minimum expansion temperature	105 °C
Storage	Store in temperatures between 5 °C and 30 °C
Life	Under normal conditions; 30 years +

Packaging	<p>Isover Protect Service Transit: Ø40mmx150/250/400mm - 30 pcs/box Ø63mmx150/250/400mm - 25 pcs/box Ø90mmx150/250/400mm - 12 pcs/box Ø110mmx150/250/400mm - 9 pcs/box</p> <p>Pallets: Ø40mmx150/250/400mm - 120/75/45 boxes/pallet Ø63mmx150/250/400mm - 48/30/18 boxes/pallet Ø90mmx150/250/400mm - 48/30/18 boxes/pallet Ø110mmx150/250/400mm - 48/30/18 boxes/pallet</p>
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Test Standards

This Technical Data Sheet and the Installation Instructions are based on the product's ETA issued in accordance with regulation (EU) No 305/2011 on the basis of EAD 350454-00-1104, September 2017, tested to EN 1366-3 in conjunction with EN 1363-1. The product hold the following approval marks; CE-mark for Europe.

Quality Assurance

As a part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only.

As Saint-Gobain Isover has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.



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