

Vent Duct OverSleeve

Product Description

Tenmat's Vent Duct OverSleeve is a firestop penetration seal designed to fit around Semi Rigid PE Ducting that pass through fire rated partitions.

Semi rigid ventilation ducts are particularly susceptible to fire attack and require a firestop that exhibits exceptionally quick reaction to seal the duct before fire can pass through.

The Vent Duct OverSleeve is fire tested to EN 1366-3 in plasterboard partition walls and provides up to EI120 minutes fire resistance. The testing was carried out with Uncapped/ Uncapped pipe end configuration as required for ventilated systems.

The low profile Vent Duct OverSleeve is supplied flat and can be wrapped around the ducting and resealed with the reinforced foil backing tape. It's design allows the product to be retrofitted to existing ductwork if needed.

In a fire situation, the Vent Duct OverSleeve rapidly expands to crush and seal off the duct to limit fire and smoke spread.

Product Advantages

- EN1366-3 Fire Tested
- Up to EI120 Minutes Fire Rating
- Can be retrofitted
- Low Profile
- No additional metal sleeving required
- 75mm diameter ducts approved in 72mm up to 150mm thick Flexible Partitions / Solid Walls
- 90mm diameter ducts approved in 100mm thick Flexible Partitions / Solid Walls

Product Dimensions

Vent Duct OverSleeve is sold in two options.

An individual wrap (4mm thick) for 75mm ducts which is pre-cut to length, ready to be installed on the duct.

A universal, 5 metre pack, (3mm thick), suitable for both 75mm and 90mm ducts. This option needs cutting to length before installing on the duct.

Individual Oversleeve - 4mm thick

Duct Size	Thickness	Width	Length
75mm	4mm	260mm	250mm

5 Metre Packs - 3mm thick

Duct Size	Thickness	Width	Length Req'd per Duct	Length per Pack
75mm	3mm	280mm	255mm (1 layer)	5 x 1 metre lengths
90mm	3mm	280mm	962mm (3 layers)	5 x 1 metre lengths

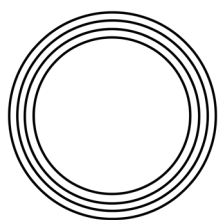
Number of Layers

Depending on the duct size, the OverSleeve will need to be wrapped round the duct in either one or three layers. See below images:

**One Layer**

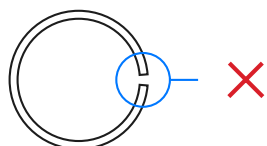
One layer of 3mm for 75mm ducts (5 metre pack version)

One layer of 4mm for 75mm ducts (Individual Wrap version)

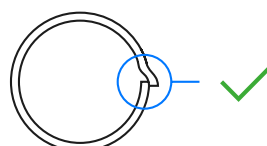
**Three Layers**

Three layers of 3mm (9mm total installed thickness) for 90mm ducts (5 metre pack version only)

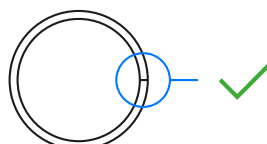
Join Detail



Gap = Not approved



Overlap = OK



Butt joint = OK

Test Data

Individual Oversleeve (4mm thick)

Standard	Wall Construction	Plasterboard Specification	Duct Type	Duct OD (mm)	Duct Wall Thickness (mm)	OverSleeve Thickness (mm)	OverSleeve Length (mm)	Min. protrusion both sides of wall (mm)	End Cap Configuration	Fire Rating	Report No.
EN 1366-3	Min. 100mm thick Partition/ Solid Wall	Min. 2No. x 12.5mm thick (min. total 25mm both sides)	PE Semi-Rigid	75mm	7mm	4	250	50	U/U	EI120 U/U	CR13219
EN 1366-3	Min. 72mm thick Partition/Solid Wall	Min. 1No. x 12.5mm thick (both sides of wall)	PE Semi-Rigid	75mm	7mm	4	250	50	U/U	30/30 U/U	PAR/16434/01
EN 1366-3	Min. 100mm thick Partition/Solid Wall	Min. 1No. x 15mm thick (both sides of wall)	PE Semi-Rigid	75mm	7mm	4	250	50	U/U	60/60 U/U	PAR/16434/01

Field of Application Report PAR/16434/01 by KIWA Fire Safety / International Fire Consultant Ltd assesses the performance for integrity and insulation to EN 1366-3 for 30 and 60 minutes.

Max. partition thickness of 150mm when using standard 250mm length of Vent Duct OverSleeve to allow required 50mm protrusion either side of wall (for thicker partitions/walls please consult with Tenmat for non-standard lengths)

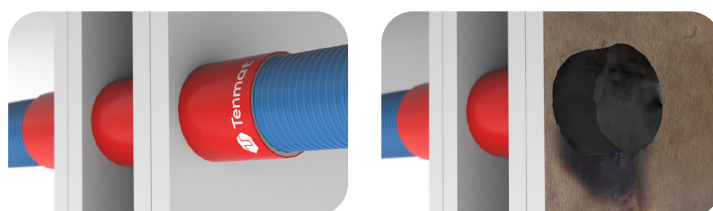
All supporting constructions must have suitable supporting documentation to demonstrate 30, 60 or 120 minutes fire resistance performance, as applicable when tested in accordance with BS EN 1364-1.

5 Metre Pack (3mm thick)

Standard	Wall Construction	Plasterboard Specification	Duct Type	Duct OD (mm)	Duct Wall Thickness (mm)	OverSleeve Thickness (mm)	OverSleeve Length (mm)	Min. protrusion both sides of wall (mm)	Fire Rating	Report No.
EN 1366-3	Min. 100mm thick Partition/ Solid Wall	Min. 2No. x 12.5mm thick (min. total 25mm both sides)	PE Semi-Rigid	75mm	7mm	3 (one layer)	280	90	EI120 U/U	538516
EN 1366-3	Min. 100mm thick Partition / Solid Wall	Min. 2No. x 12.5mm thick (min. total 25mm both sides)	PE Semi-Rigid	90mm	8mm	9 (three layers)	280	90	EI120 U/U	538516

Storage & Durability

Storage	Dry, ambient
Transportation storage temperature	-20°C to +70°C
Working Life	60 years
Durability	Type X intended for use in conditions exposed to weather (UV, rain, frost)
Smoke/Halogen Content	Low Smoke / Zero Halogen



Fitting Instructions

Individual Wrap - 4mm thick version only

- Cut or ensure an approx. 83mm diameter aperture through the wall is in place to ensure a friction fit between the OverSleeve and plasterboard.
- The OverSleeve can be pre-rolled, for example using a piece of spare duct, to aid wrapping around the duct.
- Wrap the OverSleeve tightly around the duct, ensuring there is no gap between the two meeting ends and seal with aluminium foil repair tape.
- The OverSleeve must protrude both sides of the wall by minimum 50mm and must not be cut down to less than 200mm long (the product does not have to be cut down from the standard 250mm length).
- To seal minor gaps, for finishing and smoke sealing, up to max. 5mm gaps can be sealed with a Fire Rated Intumescent Acrylic Sealant (recommended PFC Corofil Acoustic Intumescent Sealant CAIS).

5 Metre Pack - 3mm Version

- Cut or ensure a min. 81mm to max. 111mm (75mm ducts) or min. 108mm to max. 138mm (90mm ducts) diameter aperture through the wall is in place.
- The OverSleeve can be pre-rolled, for example using a piece of spare duct, to aid wrapping around the duct.
- Wrap the OverSleeve tightly around the duct, 1 layer for 75mm ducts, 3 layers (9mm total installed thickness) for 90mm ducts ensuring there is no gap between the two meeting ends and seal with the aluminium foil repair tape.
- Position the OverSleeve on the duct ensuring it is centrally located within the wall.
- The OverSleeve must protrude both sides of the wall by minimum 90mm and must not be cut down in length.
- An annular gap of up to 15mm can be sealed with PFC Corofil Acoustic Intumescent Sealant CAIS.

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Advanced materials.
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Tenmat warrants the materials it produces will conform to Tenmat specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

The information contained in Tenmat data sheets is presented in good faith. Tenmat Limited makes passive fire protection product suggestions based solely upon and limited to the information made available to Tenmat. Tenmat possesses knowledge of fire test data and offers manufacturers installation advice. Within reason, Tenmat is skilled at offering opinion concerning the installations in question, and can comment on interfaces with other construction materials, but this is not a recommendation or decision. Decisions on overall building fire strategy are not made by Tenmat. Tenmat products have been tested for a wide range of construction types, and they must be only used in accordance with Tenmat test evidence. Each specific Tenmat product must be installed into a construction that matches the corresponding test report. Tenmat product performance requires safe and proper handling and correct installation.

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