Fire Stopping
Compartmention Systems

FLAMOSEAL BOARD

TRIA

FLAMOSEAL BOARD

50mm and 60mm panel

ETA 18/1077 of 04/06/19

description

FLAMOSEAL BOARD 50mm and 60mm is a coated mineral wool board used to reinstate the fire resistance performance of wall constructions where they have been provided with apertures for the penetration of single or multiple services.
FLAMOSEAL BOARD 50mm and 60mm is supplied coated in both single and double coated versions.
The board is cut and friction fitted into the aperture while using Flamocoustic Sealant.

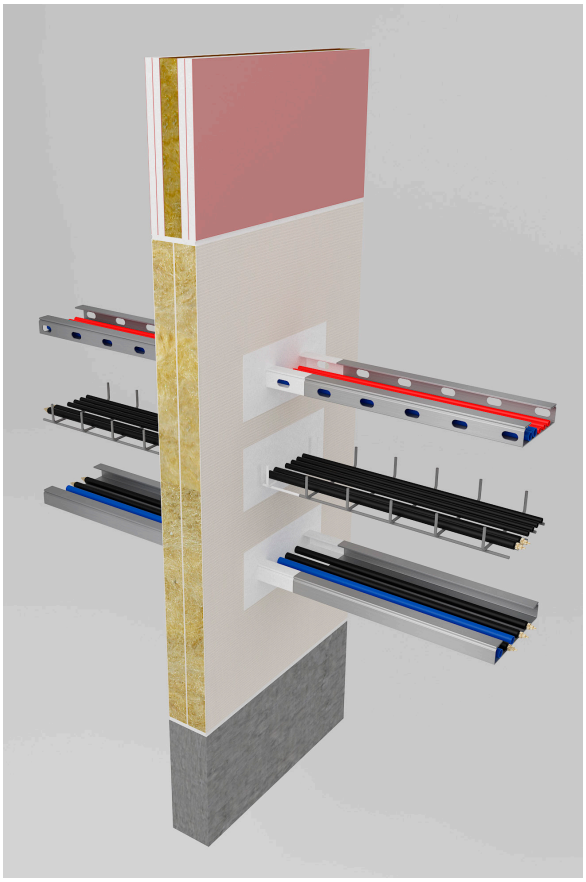
FLAMOSEAL BOARD 50mm and 60mm are supplied in overall dimensions 1200mm x 600mm with a density of 140kg/m^3. Flamocoustic Sealant is required to seal all joints and junctions during the sealing process. Flamocoustic Sealant is subject to a separate TDS. FlamoPro HPE Sealant is required to seal around specific services. FlamoPro HPE Sealant is subject to a separate TDS.

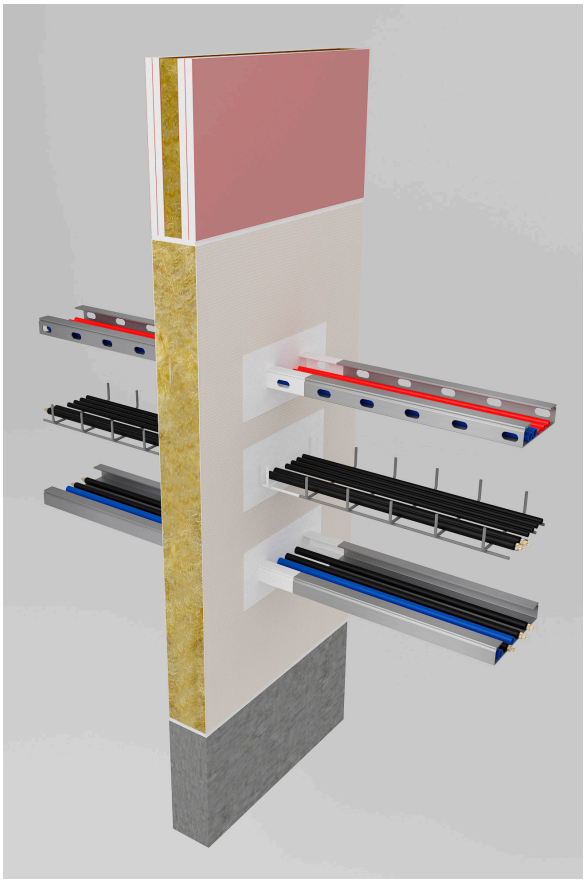
intended use

The intended use of FLAMOSEAL BOARD 50mm and 60mm panel is to reinstate the fire resistance performance of rigid and flexible wall constructions where they are penetrated by various cables, metallic pipes and blank seals.
The specific elements of construction that the system FLAMOSEAL BOARD 50mm and 60mm panel may be used to provide a penetration seal in, are as follows:
- Fire Resistant testing to EN 1366-3 EI 60, EI 90, EI 120.
- Fire Classification to EN 13501-2.
- Fire resistance tested in flexible walls, rigid walls & floors, composite panel, CLT wall and Durasteel wall.

key product points

- Air Permeability.
- Acoustic Isolation.
- Suitable for indoor use without additional environmental protection.
- Remains flexible.
- Life expectancy of over 25 years.
- Suitable for large openings in walls and floors with additional supports.





PRODUCT TECHNICAL DATA		
Description	Result	Test standards
Dimensions	1200mm x 600mm x 50mm / 1200 x 600 x 60mm	
Stone Fibre Density	> 140Kg/m^3	
Coating Thickness	1 mm Nominal, 2.2kg wet film coating	
Fire Resistance	2 hours can go up to 4 hours	EN 1366-3; EN 1363-1 EN 13501-2, BS 476 pt 20/22
Insulation (Single panel)	142 minutes on seal face, EI 60	EN 13501-2
Insulation (Double panel)	264 minutes on seal face, EI 120	EN 13501-2
Acoustic Performance	Acoustic Reduction up to 60dB (Refer to TRIA Technical Department for requirements)	EN 10140
Air Permeability	600Pa EN 1026 - 100Pa 1.8/1.4 $m^3/h/m^2$	EN 1026
Thermal Conductivity (U Value)	0.034 W/mK at 10°C	
Flamocoustic Sealant coverage	2.15kg Spread, 2.20kg Spray	
Maximum Size of Seal	Rigid Wall 5.76m^2, Floor 2.88m^2*	
Maximum Size – Unsupported Wall	2880 x 1440mm (4.03m^2 with services) 1200 x 1200mm (1.44m^2 with no services)	
Maximum Size - Unsupported Floor	1600 x 700mm (1.12m^2)	
VOC % Nonaqueous volatiles (105°C)	0.8	LEED
Expected Shelf Life	N/A	Must be stored in dry conditions off the floor

installation friction fit

Ensure that the aperture and services in question are tested with FLAMOSEAL BOARD, and the site conditions are within the application specification.
All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to at 5°C or above at time of installation.
Upon installation make sure that you install the FLAMOSEAL BOARD with at least 10% friction fit. Coat all joints and interfaces of the FLAMOSEAL BOARD using Flamocoustic Sealant.
Once compacted within the aperture finish off the edges with a bead of Flamocoustic Sealant to create a seal.

terminology

Fire performance in accordance with EN 1366-3, EN 1366-4, Classification 13501-2:2007 + A1:2009, ETAG, Air Permeability EN 1026, Sound EN 10140.
Fire resistance classes are: E = Integrity, the product can withstand the fire from the non-fire side, I =Insulation, the product can withstand the temperature travelling down the service, U/U = Uncapped inside and outside the furnace, U/C = Uncapped inside and Capped outside the furnace, C/U = Capped inside and Uncapped outside the furnace.

flexible and rigid walls

DOUBLE FLAMOSEAL 50MM PANEL IN FLEXIBLE OR RIGID WALLS				
Aperture size	Seal composition	Service(s)	Position of service(s)	Classification
730mm wide by 1200mm high	Double layer of 50 mm thick 140 kg/ m^3 FLAMOSEAL.	Electrical cables up to 21mm Ø	50mm edge min. Cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal.	EI 60
		Electrical cables 22mm to 80mm Ø		
		Cable Trays and Ladders.		
		100 mm diameter bundle telecommunication cable type “F”.		
		Unsheathed electrical cables up to 17mm Ø		
		Unsheathed electrical cables 18 24mm Ø		
		Steel or Copper Conduits up to 16mm.		
		Plastic conduits up to 16mm.		

flexible and rigid walls

DOUBLE FLAMOSEAL 50MM PANEL IN FLEXIBLE OR RIGID WALLS				
Aperture size	Seal composition	Services	Seal	Classification
750mm wide by 1200mm high	Double layer of 50mm thick 140kg/ m^3 FLAMOSEAL panel.	Single copper or steel pipe 40 - 159mm diameter and 1 - 14.2mm wall thickness with sustained/ continuous Elastomeric insulation 13 - 25mm thick	2 Layers of 2mm thick 40mm wide FLAMOCOL PCP EL installed within both panels.	EI 60
		Single copper or steel pipe 42mm diameter and 1mm wall thickness with sustained/continuous Elastomeric insulation 13 - 25mm thick		EI 90

DOUBLE FLAMOSEAL 50MM PANEL IN FLEXIBLE OR RIGID WALLS					
Aperture size	Seal composition	Services	Capping	Seal	Classification
750mm wide by 1200mm high	Double layer of 50mm thick 140kg/ m^3 FLAMOSEAL panel .	Single copper or steel pipe 40 - 108mm diameter and 1 - 14.2mm wall thickness with sustained/ continuous Phenolic Foam insulation 25 - 40mm thick.	C/U	2 Layers of 2mm thick 40mm wide Flamocol PCP EL installed within both panels. suitable for: Cluster Formation of Pipes with 0mm separation.	EI 60
		Single copper or steel pipe 42mm diameter and 1mm wall thickness with sustained/ continuous Phenolic Foam insulation 25 - 40mm thick.			EI 90

FLAMOCOL PCP, FACE FIXED ONTO DOUBLE FLAMOSEAL 50MM PANEL IN FLEXIBLE WALL WITH A PE, ABS & SAN+PVC PIPES							
Aperture size	Seal composition	Services	Collar reference	Capping	Seal	Collar fixing	Classification
750mm wide by 1200mm high	Double layer of 50mm thick 140kg/m^3 FLAMOSEAL	PE Pipe 32mm Ø to PE Pipe 160 mm Ø	32mm to 160 mm FLAMOCOL PCP	U/C	Cluster Formation of Pipes with 0mm separation	Fixed on both sides of wall with an 80mm Pig Tail Screw	EI 120

FLAMOCOL PCP, FACE FIXED ONTO DOUBLE FLAMOSEAL 50MM PANEL IN FLEXIBLE WALL PP PIPES							
Aperture size	Seal composition	Services	Collar reference	Capping	Seal	Collar fixing	Classification
750mm wide by 1200mm high	Double layer of 50mm thick 140kg/m³ FLAMOSEAL	PP Pipe 32mm Ø to PE Pipe 160 mm Ø Wall thickness	32mm to 160 mm FLAMOCOL PCP	U/C	Cluster Formation of Pipes with 0mm separation.	Fixed on both sides of wall with an 80mm Pig Tail Screw	EI 120

DOUBLE FLAMOSEAL 50MM PANEL IN RIGID WALLS				
Aperture size	Seal composition	Service(s)	Position of services	Classification
730mm wide by 1200mm high	Double layer of 50mm thick 140 kg/m³ FLAMOSEAL BOARD. Cables and cable trays wrapped with TRIA Stone Wool Insulation 40mm thick, 40Kg/ m³, 200mm long interrupted at the seal.	Electrical cables up to 21mm dia.	50mm edge min. Cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal.	EI 120
		Electrical cables 22mm – 80mm dia.		
		Cable Trays and Ladders.		
		100 mm diameter bundle telecommunication cable type “F”.		
		Unsheathed electrical cables up to 24mm dia.		

rigid walls

SINGLE FLAMOSEAL 50MM IN RIGID WALLS				
Aperture size	Seal composition	Services	Position of service(s)	Classification
600mm wide by 600mm high	Single layer of 50 mm thick 140 kg/m³ Flamoseal panel. Cables and cable trays	Electrical cables up to 80mm dia.	50mm edge min.	EI 60
		Cable Trays and Ladders.		EI 60
		100 mm diameter bundle telecommunication.		EI 60
		Unsheathed electrical cables up to 24mm dia.		EI 120
	Single layer of 50 mm thick 140 kg/m³ Flamoseal panel .	Steel or Copper Pipe 108mm dia, continuous/ interrupted stone wool insulation		EI 45

SINGLE FLAMOSEAL 50MM IN RIGID WALLS					
Aperture size	Seal composition	Services	Seal	Position of service(s)	Classification
1100mm x 750mm	Single layer of 50mm thick 140kg/m³ Flamoseal panel	*500mm perforated cable tray.	20mm gap above penetration full 50mm depth of the Flamoseal panel filled with Flamopro	50mm edge min.	EI 30
		*Electrical cables up to 21mmØ.			EI 45
* All cables coated with 2mm DFT flamoseal coating 300mm along the cables both sides of the seal.					

FLAMOSEAL 50MM PANEL IN RIGID WALLS					
Aperture size	Seal composition	Services	Seal	Position of service(s)	Classification
1100mm x 750mm	Single layer of 50mm thick 140kg/m³ FLAMOSEAL panel.	PVC Pipe 50mm Ø	20mm gap full 50mm depth of the FLAMOSEAL PANEL filled with Flamopro	50mm edge min.	EI 45

SINGLE FLAMOSEAL 50MM PANEL IN RIGID WALLS				
Aperture size	Seal composition	Services	Position of service(s)	Classification
1100mm x 750mm	Single layer of 50mm thick 140kg/m³ FLAMOSEAL panel	cooper/ steel Pipe 42mm ø	50mm edge min.	EI 45
		cooper/ steel Pipe 42mm - 159mm ø	50mm edge min.	E45

information

TRIA has Technical Representatives who provide assistance in the selection and specification of TRIA products. For more information, specification and technical advice please call our Head Office geral@tria.pt. Guarantee / Warranty: TRIA products are manufactured to rigid standards of quality.
Any product which has been applied in accordance with TRIA's written instructions and in any application recommended by TRIA, but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. TRIA reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement.

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