

product	Firetect® FMU + FMI
description	galvanised (FMU) or stainless steel (FMI) shell with heat reactive inner cladding
intended use	service closure for pipe penetrations, to form a penetration seal in case of fire to reinstate the fire resistance of fire compartments
certification	tested and certified by ETA-14/0251

directions for use									
important	- application must follow DoP No. CPR-14/0251-collar - constructive element must be classified acc. EN 13501-2 for the required fire resistance period								
equipment	screwdriver or drilling machine								
surface preparation	- ensure that penetration services are firmly anchored with constructive element on either side; support services; support distance: see principle detail - the penetration opening must be clean, dry and degreased; remove any debris and dust - with uneven surfaces and small gaps, <u>first</u> seal with Acrylic or PA sealer to improve smoke seal efficiency - if aperture >30mm, use PA board; cut out pipe diameter and press board tight-fit in opening								
installation	- apply on 2 sides (walls) or on 1 side (floors) - bend fixing lugs outwards and fit collar around pipe onto constructive element or PA board if necessary, use Firetect C mounting board for solid fastening - mark screw positions through the lug slots - flexible walls: use phosphate screws, coarse-thread; fasten pipes ≤ Ø125mm with only 2 screws if necessary, use screw washers for improved clamp strength - rigid walls and floors: use non-corrosive screws and/or fire rated strike anchors nylon, plastic or other combustible material is NOT permitted - mount in/on PA board, use PA spiral screws - cast-in method: collar is flush with constructive element / PA board, yet still <u>visible</u> - apply smoke seal around pipe with Acrylic or PA sealer on 2 sides - fasten glass wool or rock wool individually (not wrapped!) with steel wire								
fastening	<table border="0"> <tr> <td><u>flexible walls</u></td> <td><u>rigid walls / floors</u></td> </tr> <tr> <td>phosphate screws, coarse thread</td> <td>non-corrosive screws</td> </tr> <tr> <td>≤ Ø125mm: fastening with only 2 screws</td> <td>+ fire rated strike anchors</td> </tr> <tr> <td>in PA board: use PA spirals</td> <td>(no nylon, plastic etc. permitted)</td> </tr> </table>	<u>flexible walls</u>	<u>rigid walls / floors</u>	phosphate screws, coarse thread	non-corrosive screws	≤ Ø125mm: fastening with only 2 screws	+ fire rated strike anchors	in PA board: use PA spirals	(no nylon, plastic etc. permitted)
<u>flexible walls</u>	<u>rigid walls / floors</u>								
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≤ Ø125mm: fastening with only 2 screws	+ fire rated strike anchors								
in PA board: use PA spirals	(no nylon, plastic etc. permitted)								
finish & maintenance	- do NOT fill the void between collar and pipe; do not apply coating on collar - KLF recommends to label each fire seal with an unique ID in a (photo) log file - routine inspections on damage and repairs ensure sound fire protection management								

additional product info		Firetect® is a registered brand of KLF
charts field of application:		© KLF Building Products
- PE/PP/PVC	- PE-Xa	disclaimer
- PP-R	- cable bundles	
- PP-MD		
- PP-MX		
declaration of performance:		
- full DoP version: declaration of performance + ANNEX BWR2 + ANNEX A; upon request		
- web DoP version: declaration of performance + ANNEX BWR2; other info can be downloaded at firetect.eu/download		

specifications

Firetect® FMU + FMI

material	galvanised (FMU) or stainless steel (FMI) shell with heat reactive components, intumescent
colour	metal
fire resistance	EI 30 up to EI 240, depending on application and configuration
 tested acc.	EN 1366-3
classified acc.	EN 13501-1: Class F; EN 13501-2
environmental performance	Indoor Air Comfort Gold, AgBB, Blue Angel, Belgian Regulation, French VOC/CMR, M1
 product credits for	BREEAM, LEED v4
VOC tested acc.	ISO 11890-2 / ASTM D6886
formaldehyde tested acc.	EN 717-1 ^S : E1
release of dangerous substances	none: non-formaldehyde, non-asbestos
use category	Y ₁ (FMU) or Z ₁ (FMI), internal use
application conditions	between +5 °C and +30 °C, max. 70% RH
packaging	per piece in cartons; quantity depending on size
storage	store dry, between +5 °C and +30 °C, max. 70% RH, avoid condensation and UV
shelf life	infinite, if stored acc. instructions
activation temperature	approx. +180 °C
flash point	not applicable
practical coverage	no loss factor

available sizes

Ø in mm	40 , 50, 63, 75, 80, 90, 110, 125, 140, 160, 200, 250, 315 up to 400
installation height	up to Ø110mm: 35mm, ≥ Ø125mm: 60mm, ≥ Ø250: 100mm
installation lugs	up to Ø63mm: 2 lugs 30mm, Ø75: 2 lugs 55mm, ≥ Ø80: 4 lugs 55mm, ≥ Ø250: 6 lugs 55mm other sizes upon request

limitations

- use pipe collar type FMI (stainless steel) at conditions exposed to weathering

transport & storage

- during transport: keep dry; do not stack pallets
- store dry; best kept in cool, dark conditions
- store on level ground; do not stack pallets
- HS code: 69031000

health & safety

- no specific restrictions
- work according to health & safety Directive and use appropriate PPE
- this product is classified as not dangerous under Regulation 1272/2008 and is in compliance with CLP regulations