



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
equipment	screwdriver or drilling machine
surface preparation	<ul style="list-style-type: none"> - ensure that service elements are firmly anchored with constructive elements on either side - 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	<ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> if necessary, use screw washers for improved clamp strength - rigid walls and floors: use non-corrosive screws and/or fire rated strike anchors <ul style="list-style-type: none"> 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
finish & maintenance	<ul style="list-style-type: none"> - 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	<p>Firetect[®] is a registered brand of KLF</p> <p>© KLF Building Products</p> <p>disclaimer</p>
charts field of application:	<ul style="list-style-type: none"> - PE/PP/PVC - PP-R - PP-MD
declaration of performance:	<ul style="list-style-type: none"> - full DoP version: declaration of performance + charts field of application (FoA) + principle configurations - web DoP version: declaration of performance; other info can be downloaded at www.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 [§] : 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, 355, 400
installation height	≤ Ø110mm: 35mm, ≥ Ø125mm: 60mm, ≥ Ø250: 100mm other sizes upon request

limitations
<ul style="list-style-type: none"> - use pipe collar type FMI (stainless steel) at conditions exposed to weathering - use FMU/FMI in combination with PA board + PA spiral screws; as tested

transport & storage
<ul style="list-style-type: none"> - 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	
<ul style="list-style-type: none"> - 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 	