



product	Firetect[®] Wrap + Wrap-'n-roll
description	flexible strip with heat reactive components
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-wrap
equipment	knife + tape (Wrap-'n-roll)
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 exceeds, 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) - Wrap: wrap tight-fit around pipe; hold in position with tape - Wrap-'n-roll: cut to size; see table practical coverage - wrap required layers tight-fit around pipe, hold in position with tape - slide into place, flush with constructive element, yet still <u>visible</u> - apply smoke seal around pipe with Acrylic or PA sealer on 2 sides, also in floors!
finish & maintenance	<ul style="list-style-type: none"> - KLF recommends to label each fire seal with a 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>
<p>charts field of application:</p> <ul style="list-style-type: none"> - PE/PP/PVC - PP-MD - aluPE-X - copper + steel 	
<p>declaration of performance:</p> <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 	 

PE/PP/PVC

fire resistance - EI classification acc. **EN 13501-2 / EN 1366-3**

constructive element

Wrap-'n-roll

pipe Ø (mm)	pipe type	+ pipe thickness (mm)	walls		floors type 5	no. of layers	Wrap-'n-roll		aperture (mm)
			type 1 + 2 + 3	type 2 + 3 in mortar			wrap length (mm)		
40	PE PP	(3,4 up to 10,0) (2,7 up to 6,3)	EI 120 U/C	EI 120 U/C in mortar 200x1000mm	EI 180 U/C	2	252	1 layer in mortar = 126	+ 15mm
50	PVC	(2,7 up to 10,0)	EI 120 U/C		EI 180 U/C	2	314	1 layer in mortar = 157	+ 15mm
63			EI 120 U/C		EI 180 U/C	2	396	1 layer in mortar = 198	+ 15mm
75			EI 120 U/C		EI 180 U/C	2	471	1 layer in mortar = 236	+ 15mm
80			EI 120 U/C		EI 180 U/C	2	503	1 layer in mortar = 252	+ 15mm
90			EI 120 U/C		EI 180 U/C	2	566	1 layer in mortar = 283	+ 15mm in mortar: 95
110			EI 120 U/C		EI 180 U/C	2	691		120 up to 132
125	PE	(3,9 up to 11,7)	EI 60 U/C		EI 180 U/C	2 (walls)	785		132
	PP PVC	(3,1 up to 7,1) (3,1 up to 11,7)				3 (floors)	1178	132	
140	PE	(4,9 up to 14,6)			EI 180 U/C	3	1319		+ 15mm
	PP	(4,0 up to 14,6)							
	PVC	(4,0 up to 14,6)							
160	PE	(4,9 up to 14,6)			EI 180 U/C	3	1508		172 up to 176
	PP	(4,0 up to 14,6)							
	PVC	(4,0 up to 14,6)							
110 in PA board	PE	(3,4)	EI 30 U/C in 1x PA board			2	691		130
			EI 60 U/C in 2x PA board			2	691		132
	PVC	(3,2)		EI 90 U/C in 1x PA board		2	691		400x400

PP-MD

50	PP-MD	(2,0)	EI 120 U/C		EI 240 U/C	1	157		+ 5mm
75	PP-MD	(2,6)	EI 240 U/C in wall 3		EI 240 U/C	1	236		+ 5mm
110	PP-MD	(3,8)	EI 120 U/C		EI 240 U/C	2	691		+ 10mm
110 + pipe socket	PP-MD	(3,8)	EI 90 U/C			3	1036		+ 15mm

- 1 walls: metal stud ≥100mm
- 2 walls: blockwork ≥100mm
- 3 walls: blockwork ≥150mm
- 5 floors: aerated concrete ≥150mm

always apply acc. DoP with **smoke seal** Acrylic on 2 sides, also in floors!

aperture **oversize** allowance up to 15mm

pipe end configuration: **U/C** = uncapped/capped

PA board type 50mm 2S: 2 sides coated with PA coating

if aperture exceeds, use **PA board**

aluPE-X			fire resistance - EI classification acc. EN 13501-2 / EN 1366-3						
pipe Ø (mm)	pipe type	+ pipe thickness (mm)	constructive element			Wrap-'n-roll		aperture (mm)	
			walls type 1 + 2 + 3	walls type 2 + 3 in mortar	floors type 5	no. of layers	wrap length (mm)		
16	aluPE-X insulated pipe: + Armaflex AF 13mm 700LS	(2,0 up to 7,5)	EI 60 U/C in 2x PA board			2	264	+ 15mm	
18			EI 60 U/C in 2x PA board			2	277	+ 15mm	
20			EI 60 U/C in 2x PA board			2	289	+ 15mm	
25			EI 60 U/C in 2x PA board			2	321	+ 15mm	
32			EI 60 U/C in 2x PA board			2	365	+ 15mm	
40			EI 60 U/C in 2x PA board			2	415	+ 15mm	
50			EI 60 U/C in 2x PA board			2	478	+ 15mm	
63			EI 60 U/C in 2x PA board			2	559	+ 15mm	
75				EI 60 U/C in 2x PA board	EI 90 U/C in mortar		2	635	up to 109 in mortar: 105
copper + steel									
≤ 35	Cu / steel	(1,0 up to 1,5)	EI 180 C/U in wall 3		Ei 180 C/U	1	≤ 110	+ 5mm	
insulated pipe: glasswool 22 / 30mm alu2 1000CS									

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pipe insulation: **LS** = local sustained: total 700mm through constructive element

if aperture exceeds, use

PA board

specifications		Firetect® Wrap + Wrap-'n-roll
material	flexible strip with heat reactive components, intumescent	
colour	grey	
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 , internal use	
application conditions	between +5 °C and +30 °C, max. 70% RH	
hardness	Shore A: 85	
adhesion	use tape for fastening around pipe	
packaging	Wrap: per piece in cartons; Wrap-'n-roll: on rolls 18 m ¹	
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	allow for limited loss factor with Wrap-'n-roll	

available sizes	
Wrap-'n-roll: op rol	18 m ¹
Wrap: Ø	50, 80, 110, 125, 160 mm other sizes upon request

limitations
<ul style="list-style-type: none"> - use pipe collar type FMU for PE/PP/PVC ≥ Ø200mm + PP-R - use Acrylic or Graphite sealant for PE-Xa

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

