



product	<b>Firetect® Wrap + Wrap-'n-roll</b>
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

<b>directions for use</b>	
<b>important</b>	- application must follow DoP No. CPR-14/0251-wrap - constructive element must be classified acc. EN 13501-2 for the required fire resistance period
equipment	knife + tape (Wrap-'n-roll)
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 exceeds, use PA board; cut out pipe diameter and press board tight-fit in opening
<b>installation</b>	- 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! - fasten glass wool or rock wool individually (not wrapped!) with steel wire
finish & maintenance	- 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

<b>additional product info</b>	Firetect® is a registered brand of KLF © KLF Building Products <a href="#">disclaimer</a>
charts field of application:	
- PE/PP/PVC	
- PP-MD	
- aluPE-X	
- PE-Xa	
- copper	
- steel	
<b>declaration of performance:</b>	
- 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 <a href="http://firetect.eu/download">firetect.eu/download</a>	
	 

pipe Ø (mm)	pipe thickness (mm)	constructive element			Wrap-'n-roll		max. opening (mm)
		WALLS 1: flexible	2+3: rigid	FLOORS 5: rigid	number of layers (n°)	wrap length (mm)	
<b>PE/PP/PVC</b>							
40	PE 3,4 up to 10,0 PP 2,7 up to 6,3	EI 120	EI 120 *	EI 180	2	252	55
50	PVC 2,7 up to 10,0	EI 120	EI 120 *	EI 180	2	314	65
63		EI 120	EI 120 *	EI 180	2	396	78
75		EI 120	EI 120 *	EI 180	2	471	90
80		EI 120	EI 120 *	EI 180	2	503	95
90		EI 120	EI 120 *	EI 180	2	566	105
110		EI 120	EI 120	EI 180	2	691	132
110 in PA board	PE 3,4	EI 60 in 2x PA board			2	691	600x1200
		EI 30 in 1x PA board			2	691	600x600
	PVC 3,2			EI 90 in 1x PA board	2	691	400x400
125	PE 3,9 up to 11,7 PP 3,1 up to 7,1 PVC 3,1 up to 11,7	EI 60	EI 60	EI 180	2 (walls)	785	133
					3 (floors)	1178	137
140	PE 4,9 up to 14,6 PP 4,0 up to 14,6 PVC 4,0 up to 14,6			EI 180	3	1319	155
max. 160	PE 4,9 up to 14,6 PP 4,0 up to 14,6 PVC 4,0 up to 14,6			EI 180	3	1508	176

<b>PP-MD</b>							
32	PP-MD 1,8	EI 120	EI 180	EI 180	1 (walls 1+2) 2 (walls 3)	depending on n° of layers	40
					2 (floors)	201	44
50	PP-MD 2,0	EI 120	EI 240	EI 240	1	157	55
75	PP-MD 2,6	EI 120	EI 240	EI 240	1	236	79
110	PP-MD 3,8	EI 120	EI 120	EI 240	2	691	118
110 + socket	PP-MD 3,8	EI 90	EI 90		3	depending on thickness socket; length = $\pi \times \text{Ø} \times$ n° of layers	160
max. 160	max. 5,4			EI 240	3	1507	180

- 1 walls: metal stud  $\geq 100\text{mm}$
- 2 walls: blockwork  $\geq 100\text{mm}$
- 3 walls: blockwork  $\geq 150\text{mm}$
- 5 floors: aerated concrete  $\geq 150\text{mm}$

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

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

\* also tested in **mortar** 200x1000mm with 1 layer; opening = pipe  $\text{Ø} + 5\text{mm}$

practical coverage

DoP CPR-14/0251-wrap

page 3/4

Wrap-'n-roll

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

version 19/1

pipe Ø (mm)	pipe thickness (mm)	pipe insulation type	constructive element		FLOORS 5: rigid	Wrap-'n-roll		max. opening (mm)
			WALLS 1: flexible	2+3: rigid		number of layers (n°)	wrap length (mm)	
<b>aluPE-X</b>								
16	2,0	13mm synth. rubber, min. 60 kg/m <sup>3</sup>	EI 60 in 2x PA board	EI 60 in 2x PA board	max. EI 240	2	264	600x1200
		20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	max. EI 240		depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
25	2,5	13mm synth. rubber, min. 60 kg/m <sup>3</sup>	EI 60 in 2x PA board	EI 60 EI 90 *	max. EI 240	2	321	600x1200
		20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	max. EI 240		depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
63	6,0	13mm synth. rubber, min. 60 kg/m <sup>3</sup>	EI 60 in 2x PA board	EI 60 EI 90 *	max. EI 240	2	559	600x1200
		20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	max. EI 240		depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
max. 75	max. 7,5	13mm synth. rubber, min. 60 kg/m <sup>3</sup>	EI 60 in 2x PA board	EI 60 EI 90 *	EI 240	2	635	600x1200
		20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	EI 240		depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP

<b>PE-Xa</b>								
15/28	2,5	no pipe insulation	EI 120	EI 120		1	88	32
		10mm polyolefin rubber, min. 28 kg/m <sup>3</sup>	EI 120	EI 120		2	302	56
16/25	2,2	no pipe insulation	EI 120	EI 120		1	79	29
		10mm polyolefin rubber, min. 28 kg/m <sup>3</sup>	EI 120	EI 120		1	142	49
32/54	4,4	no pipe insulation	EI 120	EI 120		1	170	58
		20mm polyolefin rubber, min. 28 kg/m <sup>3</sup>	EI 90	EI 90		2	590	102

<b>copper</b>								
15	1,0	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	max. EI 240	max. EI 240	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
22	1,1	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>		EI 180	EI 180	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
35	max. 14,0	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>		EI 180	EI 180	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
max. 76	max. 14,0	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 90	max. EI 240	max. EI 240	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP



<b>steel</b>								
15	1,0	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 120	max. EI 240	max. EI 240	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
42,2	3,25	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	max. EI 120	max. EI 240	max. EI 240	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
76	max. 14,0	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	EI 90	max. EI 240	max. EI 240	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP
max. 219,1	max. 14,2	20mm up to 80mm glass or rock wool (alu), min. 75 kg/m <sup>3</sup>	max. EI 120	max. EI 120	max. EI 180	depending on thickness pipe insulation; length = $\pi \times \text{Ø} \times n^\circ$ layers		see principle detail DoP

- 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!

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

\* also tested in mortar 200x1000mm with 1 layer; opening = pipe Ø + 5mm

specifications	Firetect® Wrap + Wrap-'n-roll
material	flexible strip with heat reactive components, intumescent
colour	grey
<b>fire resistance</b>	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
<b>environmental performance</b>	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 <sup>§</sup> : E1
release of dangerous substances	none: non-formaldehyde, non-asbestos
use category	Y <sub>1</sub> , 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 <sup>1</sup>
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 <sup>1</sup>
Wrap: Ø	50, 80, 110, 125, 160 mm other sizes upon request

limitations
- use pipe collar type FMU for PE/PP/PVC ≥ Ø200mm + PP-R - use Acrylic or Graphite sealant for PE-Xa

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

