

FLAMRO Variant N III Wrap

EI 90 / 120 / 240

ETA-16-0056

Certificate of constancy of performance 0761 - CPR - 0500

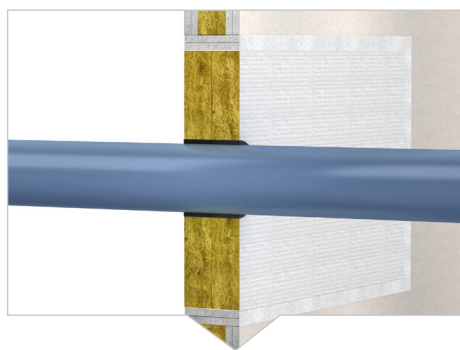
UL approved

Special Benefits

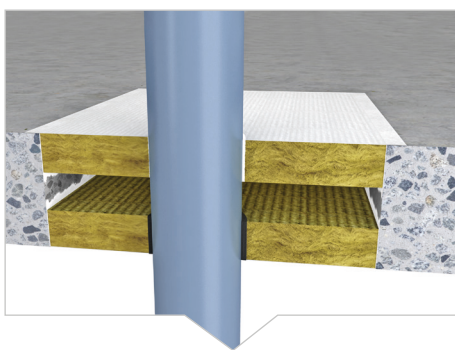
- Only one product for a wide range of pipes
- Easy and excellent usability
- Flexibel and easy installation
- Suitable for the application in wet and humid areas

Permitted Configuration

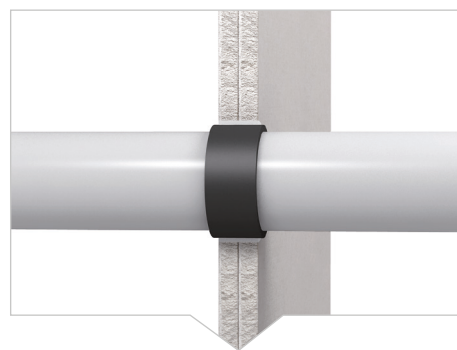
- Plastic pipes up to \varnothing 200 mm
- Insulated and uninsulated combustible pipes and sound-isolated sewer pipes
- Uninsulated plastic pipes
- Synthetic rubber insulated plastic pipes up to \varnothing 110 mm



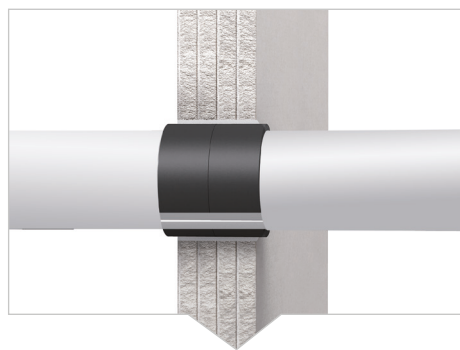
For the application in the BC Seal FM I Combi Seal in walls, the intumescent material must be wrapped around the pipe on both sides.



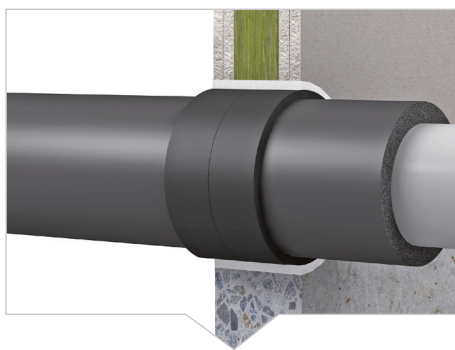
For floor installations, the intumescent material must be provided only on the underside.



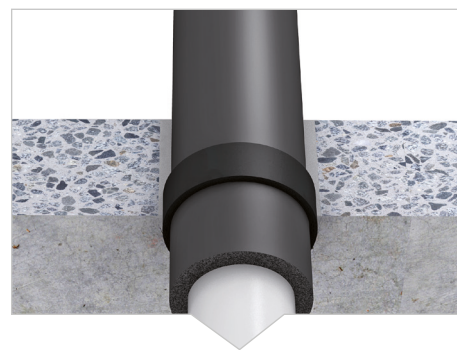
For installations in shaft walls $\geq 2 \times 20$ mm, the intumescent material must be wrapped around the pipe only once.



For EI 120 requirements in shaft walls, the intumescent material must be wrapped around the pipe on both sides.



For drywall partitions and solid wall installations, the intumescent material must be provided on both sides.



For floor installations, the intumescent material must be provided only on the underside.

Form of Delivery

Article Description	Content / Dimensions	Art. No.
FLAMRO Variant N III Wrap, self-adhesive	12500 x 50 x 2 mm	15512

Installation Data

	Rigid wall	Solid floors	Lightweight partition walls
Wall/floor thickness	min. 100 mm	min. 150 mm	min. 100 / 94 mm
Max. pipe diameter	$\varnothing \leq 110 / 200$ mm	$\varnothing \leq 100 / 200$ mm	$\varnothing \leq 110 / 200$ mm



How much material is required?

Number of layers Variant N III Wrap

Type of pipes multi-layer composite pipes e.g.:	Pipe diameter (mm)	Pipe wall thickness (mm)	Insulation	Number of layers (wall)	Number of layers (floor)	Fire resistance rating
aquatherm green pipe, Uponor MLC pipe white, alpeX-duo multilayer	≤ 40	3,5 - 15,2	without	2	2	EI 90 / 120 U/C
	> 40 ≤ 75		PE acoustic insulation ≤ 4 mm	3	3	EI 90 / 120 U/C
	> 75 ≤ 110		Synthetic rubber insulation ≤ 31,5 mm	4	4	EI 90 / 120 U/C

Type of pipes	Pipe diameter (mm)	Pipe wall thickness (mm)	Sealing type	Number of layers (wall)	Number of layers (floor)	Fire resistance rating
PVC	≤ 50	2,4	Flamro KSL Combined Penetration Seal	2	2	EI 60/120 U/U
PVC	≤ 75	3,6		3	3	EI 120 U/U
PVC	≤ 110	5,3		4	4	EI 90/120 U/U
PVC	≤ 160	7,7			6	EI 90 / 120 U/U
PP	≤ 50	2,9		2	2	EI 60/120 U/U
PP	≤ 75	4,3		3	3	EI 120 U/U
PP	≤ 110	6,3		4	6	EI 90/120 U/U
PP	≤ 160	9,1		6	6	EI 90 / 120 U/U

Type of pipes	Pipe diameter (mm)	Pipe wall thickness (mm)	Sealing type	Number of layers (wall)		Fire resistance rating
PVC	≤ 50	3,7	Shaft walls ≥ 2 x 20 mm	2		EI 90 U/U
PE	≤ 50	4,6		2		EI 90 U/U
PP	≤ 50	4,6		2		EI 90 U/U

Number of layers and according length of band

	Type of pipes	PVC, PE, PP -Pipes Rohre with synthetic rubber for ceilings											
For ceilings	Pipe diameter (mm)	32	40	50	63	75	90	110					
with synthetic rubber for ceilings	Number of layers	3 (*4)	3 (*4)	3 (*4)	3 (*4)	3 (*4)	3 (*4)	3 (*4)					
	Total length for thickness 9 mm	520	600	705	840	965	1120	1330					
	Total length for thickness 13 mm	605	690	790	925	1050	1205	1420					
	Total length for thickness 19 mm (*4)	1015	1130	1280	1460	1640	1850	2140					
	Total length for thickness 25 mm (*4)	1190	1310	1450	1640	1810	2030	2320					
	Total length for thickness 32 mm (*4)	1390	1510	1650	1840	2010	2230	2520					

	Type of pipes	PVC, PE, PP - Pipes Rohre with synthetic rubber for walls											
For walls	Pipe diameter (mm)	32	40	50	63	75	90	110					
with synthetic rubber for walls	Number of layers	3 (*4)	3 (*4)	3 (*4)	2 x 3 (*4)	3 (*4)	3 (*4)	3 (*4)					
	Total length for thickness 9 mm	2 x 520	2 x 600	2 x 705	2 x 840	2 x 965	2 x 1120	2 x 1330					
	Total length for thickness 13 mm	2 x 605	2 x 690	2x 790	2 x 925	2 x 1050	2 x 1205	2 x 1420					
	Total length for thickness 19 mm (*4)	2x 1015	2 x 1130	2 x 1280	2 x 1460	2 x 1640	2 x 1850	2 x 2140					
	Total length for thickness 25 mm (*4)	2 x 1190	2x 1310	2 x 1450	2 x 1640	2 x 1810	2 x 2030	2 x 2320					
	Total length for thickness 32 mm (*4)	2x 1390	2 x 1510	2 x 1650	2 x 1840	2 x 2010	2 x 2230	2 x 2520					

	Type of pipes	Composite Pipe											
For ceilings	Pipe diameter (mm)	14	16	18	20	26	32	40	50	63	75	90	110
Uninsulated pipes	Number of layers	2	2	2	2	2	2	2	3	3	3	4	4
	otal length for floors (mm)	97	111	125	138	180	220	276	520	680	780	1300	1590
with synthetic rubber for floors	Number of layers	2	2	2	2	2	2	2	2	3	5	5	5
	Total length for thickness 9 mm	220	235	250	400	445	485	540	610	850	2040	2320	2680
	Total length for thickness 13 mm	280	290	305	320	360	405	460	530	930	1830	2100	2460
	Total length for thickness 19 mm	360	380	390	402	445	485	540	610	1050	2045	2220	2680
	Total length for thickness 25 mm	445	460	470	485	530	570	625	700	1180	2260	2530	2900

	Type of pipes	Composite Pipe											
For walls	Pipe diameter (mm)	14	16	18	20	26	32	40	50	63	75	90	110
Uninsulated pipes	Number of layers	2	2	2	2	2	2	2	3	3	3	4	4
	Total length for walls (mm)	2 x 97	2 x 111	2 x 125	2 x 138	2 x 180	2 x 220	2 x 276	2 x 520	2 x 680	2 x 780	2 x 1300	2 x 1590
with synthetic rubber for walls	Number of layers	2	2	2	2	2	2	2	2	3	5	5	5
	Total length for thickness 9 mm	2 x 220	2 x 235	2 x 250	2 x 400	2 x 445	2 x 485	2 x 540	2 x 610	2 x 850	2 x 2040	2 x 2320	2 x 2680
	Total length for thickness 13 mm	2 x 280	2 x 290	2 x 305	2 x 320	2 x 360	2 x 405	2 x 460	2 x 30	2 x 930	2 x 1830	2 x 2100	2 x 2460
	Total length for thickness 19 mm	2 x 360	2 x 380	2 x 390	2 x 402	2 x 445	2 x 485	2 x 540	2 x 610	2 x 1050	2 x 2045	2 x 2220	2 x 2680
	Total length for thickness 25 mm	2 x 445	2 x 460	2 x 470	2 x 485	2 x 530	2 x 570	2 x 625	2 x 700	2 x 1180	2 x 2260	2 x 2530	2 x 2900