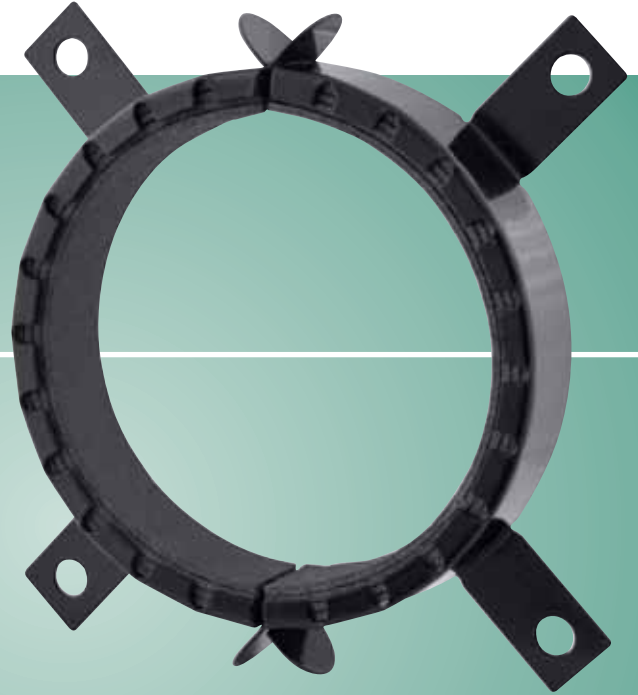
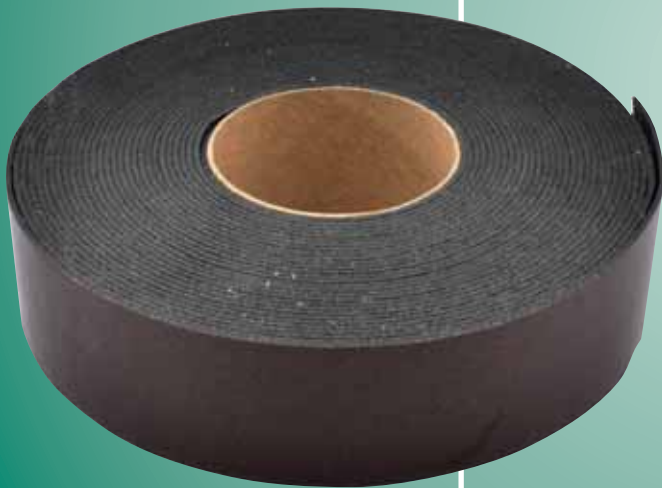


BIS Pacifyre® AWM III Fire Collar BIS Pacifyre® IWM III Fire Strip



BIS Pacifyre® AWM III Fire Collar

Product description

Built-up fire collar for plastic (combustible) pipes and pipe systems. For apertures in walls (solid walls or light partition walls) and ceilings with fire protection requirements in accordance with legislation. The BIS Pacifyre® AWM III Fire Collar has been extensively tested by institutes in various countries and easily meets today's building regulations according to EN 1366-3. The test results are acknowledged by various test institutes throughout Europe.



Applications

Approved pipes / pipe systems in EI60 quality:

- Noise reducing pipe systems e.g:
 - Friatec: Friaphon®, dBlue
 - Geberit: Silent-db20, Silent-PP
 - Wavin: Wavin AS, SiTech
 - PipeLife: PP Master
 - Rehau: Raupiano PLUS
- Combustible pipe systems (up to outer diameter 200 mm) in all common pipe materials, e.g:
 - PVC
 - PP
 - PE
 - PE-X
 - ABS or ASA
- Pipes (up to outer diameter 200 mm) for central dust extraction and pneumatic dispatch systems

Approved insulations and seals:

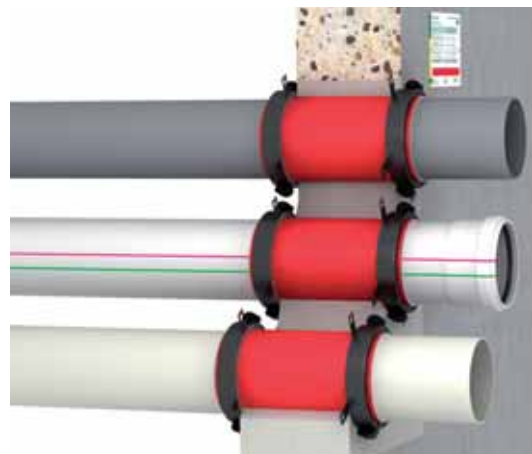
- PE-noise insulation ≤ 9 mm
- Synthetic rubber insulation ≤ 32 mm
- ≤ 10 mm Tangit® FP 430 Fire Protection Acrylic Sealant
- ≤ 10 mm mineral wool (loose)
- Mortar, plaster, concrete (e.g. BIS Pacifyre® FPM Fire Protection Mortar)

Note:

Walraven recommends to mark each individual penetration with a BIS Pacifyre® AWM III Fire Collar by means of a BIS Pacifyre® ID-Card.

Features and benefits

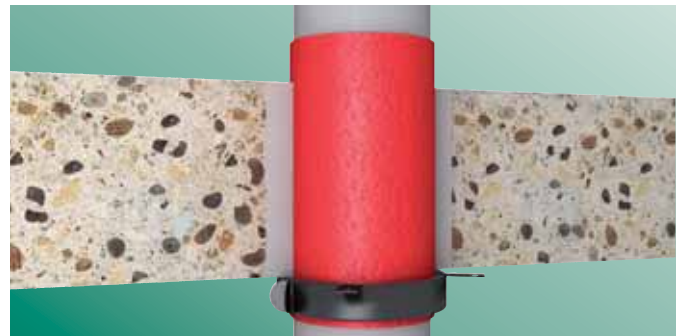
- Zero distance is possible between fire collars
- Low collar height, allowing building of bends, sockets and T-joints close to the wall or ceiling
- In problematic built-in situations the use of a oversized collar is permitted (up to max. 3 sizes bigger)
- Build in is possible without additional fixings (by simply bending and sliding the fixing tabs)
- Suitable for damp conditions
- Should be fixed on both sides of the wall/ceiling
- Easily installed due to 2 part collar construction
- Various finish possibilities, e.g.: acrylic sealant, mortar, etc.



Aperture with optional noise insulation



Built-in situation solid and light partition walls ≥ 100 mm



Built-in situation ceilings ≥ 150 mm

Technical details

Pipe Outer diameter of pipe (mm)	Fire Collar			Part No.	Number of fixing tabs
	Inner diameter (mm)	Outer diameter (mm)	Height (mm)		
32	38	47	26	213 5 032034	2
40	46	55	26	213 5 040042	2
50	56	65	26	213 5 050052	2
63	69	82	26	213 5 063065	4
75	81	94	26	213 5 075077	4
90	96	114	26	213 5 090092	4
100/110	116	134	26	213 5 110112	4
125	132	150	40	213 5 125125	4
135/140	144	168	40	213 5 140140	4
160	164	188	40	213 5 160160	4
180	184	218	40	213 5 180180	4
200	204	238	40	213 5 200200	4

Other dimensions on request.

The right combination

Tangit® FP 430 Fire Protection Acrylic Sealant

For fire resistance and smoke tight filling of annular holes or joints ≤ 10 mm
Part No. 218 1 430

BIS Pacifyre® FPM Fire Protection Mortar

Fire protecting and smoke tight mortar (A1) for safe sealing of annular holes and joints
Part No. 218 0 015300

BIS Pacifyre® ID-Card

For marking, identification and inspection. For all BIS Pacifyre® pipe penetrations
Part No. 215 9 9999XX (XX = country specific)



Installation instructions BIS Pacifyre® AWM III



1. Install pipe and if necessary apply noise insulation



2. Ensure smoke tight seal of the annular hole (eg. with BIS Pacifyre® FPM Fire Protection Mortar or Tangit® FP 430 Fire Protection Acrylic Sealant)



3. Select the correct collar size (in problematic built-in situations the use of an oversized collar is permitted up to max. 3 sizes bigger)



4. Drill (bending and sliding of fixing tabs is permitted)



5. Fix using the screws supplied



6. Apply the BIS Pacifyre® ID-Card

Note: The built-in guidelines of the general building regulations must be adhered to.

Special applications



Zero distance possible between the collars



Combustible pipes up to 200 mm outer diameter



Fixing tabs mortared (90° reversed)



With PE-Insulation ≤ 9 mm (or ≤ 32 mm synthetic rubber insulation)



Bends directly under the ceiling



Also suitable for diagonal penetrations



T-joint close to penetration

BIS Pacifyre® IWM III Fire Strip

Product description

Fire Strip for plastic (combustible) pipes and pipe systems. For apertures in walls (solid or light partition walls) and ceilings with fire protection requirements in accordance with legislation. The BIS Pacifyre® IWM III Fire Strip has been extensively tested by test institutes in various countries and easily meets today's building regulations according to EN 1366-3. The test results are acknowledged by various test institutes throughout Europe.



Technical details

- Dimension: 12,5 m x 50 mm x 2,0 mm
- Self-adhesive over entire length
- Part No. 213 6 050125

Applications

Approved pipes / pipe systems in EI60 quality:

- Noise reducing pipe systems (insulated or non-insulated) e.g:
 - Friatec: Friaphon®, dBlue
 - Geberit: Silent-db20, Silent-PP
 - Wavin: Wavin AS, SiTech
 - PipeLife: PP Master
 - Rehau: Raupiano PLUS
- Combustible pipe systems (up to outer diameter 200 mm) in all common pipe materials, e.g:
 - PVC
 - PP
 - PE
 - PE-X
 - ABS or ASA
- Multi-layer pipes ≤ 110 mm (insulated or non-insulated)
- Pipes (up to outer diameter 200 mm) for central dust extraction and pneumatic dispatch systems

Approved insulations and seals:

- Synthetic rubber insulation ≤ 32 mm
- ≤ 10 mm Tangit® FP 430 Fire Protection Acrylic Sealant
- Mortar, plaster, concrete (e.g. BIS Pacifyre® FPM Fire Protection Mortar)

Note:

Walraven recommends to mark each individual penetration with a BIS Pacifyre® IWM III Fire Strip by means of a BIS Pacifyre® ID-Card.

Features and benefits

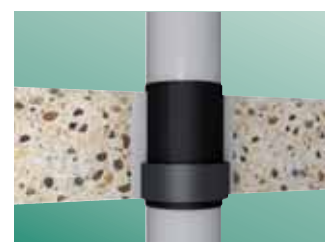
- Zero distance is possible between the pipe apertures
- Suitable for 40 mm shaft walls
- No tools, drilling or extra fixing materials needed
- Only 1 roll for numerous penetrations
- Easily to build in: simply place the strip around the pipe, slide into the aperture, finished!
- A small number of layers required, so a smaller drill hole is possible.
- Also suitable for areas which are difficult to access, like corners
- High flexibility due to self-adhesive strip
- Suitable for damp conditions
- Problem solver: easy on site modification



Aperture with optional noise insulation



Built-in situation solid and light partition walls ≥ 100 mm



Built-in situation ceilings ≥ 150 mm

BIS Pacifyre® IWM III Fire Strip

Application and consumption table for plastic pipes

Outer diameter (mm)	Pipes (non-insulated)			Pipes insulated with synthetic rubber						
	Number of layers	Length (mm)	Number of penetrations with 1 roll (pc.)	Number of layers	Fire Strip length at insulation thickness					
					6 mm	9 mm	13 mm	19 mm	25 mm	32 mm
16	1	76	164	1	113	132	157	195	233	277
20	1	88	142	1	126	145	170	208	245	289
25	1	104	120	1	142	161	186	223	261	305
32	1	126	99	1	164	183	208	245	283	327
40	1	151	82	2	352	390	440	516	591	679
50	1	183	68	2	414	453	503	578	654	742
63	1	223	56	2	496	534	585	660	735	823
75	1	261	47	2	571	610	660	735	811	899
90	2	591	21	3	986	1.043	1.119	1.232	1.345	1.477
110	2	717	17	3	1.174	1.232	1.307	1.420	1.533	1.665

Note: specified lengths are applicable for ceiling penetrations. In wall penetrations all specified lengths should be doubled! Information for pipes > Ø 110 mm available on request.

Application and consumption table for multi-layer pipes

Outer diameter (mm)	Pipes (non-insulated)			Pipes insulated with synthetic rubber						
	Number of layers	Length (mm)	Number of penetrations with 1 roll (pc.)	Number of layers	Fire Strip length at insulation thickness					
					6 mm	9 mm	13 mm	19 mm	25 mm	32 mm
16	2	126	99	2	201	239	289	365	440	528
20	2	151	82	2	227	264	315	390	465	553
25	2	183	68	2	258	296	346	421	497	585
32	2	227	55	2	302	340	390	465	541	629
40	2	277	45	2	352	390	440	516	591	679
50	4	654	19	4	805	880	981	1.131	1.282	1.458
63	4	817	15	4	968	1.043	1.144	1.295	1.445	1.621
75	4	968	12	4	1.119	1.194	1.295	1.445	1.596	1.772
90	4	1.156	10	4	1.307	1.383	1.483	1.634	1.785	1.961
110	4	1.408	8	4	1.559	1.634	1.735	1.885	2.036	2.212

Note: specified lengths are applicable for ceiling penetrations. In wall penetrations all specified lengths should be doubled! Information for pipes > Ø 110 mm available on request.

The right combination

Tangit® FP 430 Fire Protection Acrylic Sealant

For fire resistance and smoke tight filling of annular holes or joints ≤ 10 mm
Part No. 218 1 430



BIS Pacifyre® FPM Fire Protection Mortar

Fire protecting and smoke tight mortar (A1) for safe sealing of annular holes and joints
Part No. 218 0 015300



BIS Pacifyre® ID-Card

For marking, identification and inspection. For all BIS Pacifyre® pipe penetrations
Part No. 215 9 9999XX (XX = country specific)



Installation instructions BIS Pacifyre® IWM III



1. Install pipe and if necessary apply noise insulation



2. Wrap the strip around the pipe (or insulation) with an overlap of 20 mm (note the number of layers required)



3. Slide the strip into the wall/ceiling (ensuring it is flush to the surface)



4. Ensure smoke tight seal of the annular hole (eg. with BIS Pacifyre® FPM Fire Protection Mortar or Tangit® FP 430 Fire Protection Acrylic Sealant)



5. Double check the penetration



6. Apply the BIS Pacifyre® ID-Card

Note: The built-in guidelines of the general building regulations must be adhered to.

Special applications



Zero distance is possible between the pipe apertures



Combustible pipes up to outer diameter 200 mm non-insulated or insulated with synthetic rubber



Multi-layer pipes up to outer diameter 110 mm (non-insulated)



Multi-layer pipes up to outer diameter 110 mm insulated with synthetic rubber

BIS Pacifyre® MK II Fire Sleeve (built-in)

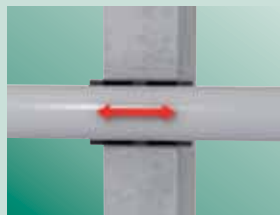
Fire, smoke and noise barrier

The BIS Pacifyre® MK II Fire Sleeve is a one-part fire sleeve with which you can make an aperture for pipes smoke free and fire resistant. In homes, factories, hospitals, offices or other residential buildings the BIS Pacifyre® MK II is installed around pipes through floors, ceilings, solid walls and modular walls.

BIS Pacifyre® MK II Fire Sleeves ensure fire compartments that effortlessly comply with building regulations.



Perfect smoke seal



Free expansion and contraction



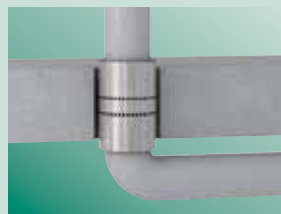
Completely finished aperture

Operational benefits

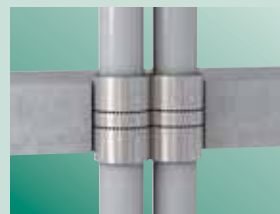
- Prevents the spreading of fire
- Prevents the spreading of smoke
- Prevents the conduction of noise
- Remains operational for decades without maintenance
- Expansion and contraction of the pipe remains possible
- Contains no dangerous materials
- Emits no toxic gases or smoke in the event of a fire

Installation benefits

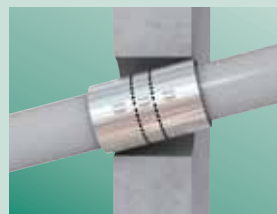
- Simple and easy to install, without special training
- Just one sleeve per aperture
- Close wall distance
- Close spacing
- For pipes in any direction!



Small distance



Zero distance possible between the sleeves



Any direction!

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