FIRE-RESISTANT

COLLARS

When combustible plastic pipes burn away during a fire, openings appear in fire compartmentation walls. Fire-resistant collars are applied around such pipes to prevent fire from spreading to other compartments. They expand through heat, thus closing off the openings and restoring the fire-resistance. Rf-Technologies offers a full range of built-in and surface-mounted fire collars that are characterised by their easy installation and their extensive field of application.

$C\epsilon$

Our full range of fire-resistant collars

	INSTALLATION	CLASSIFICATION	Ø	CONSTRUCTION	PIPE TYPE
MG-U	Built-in	U/U	32-160 mm		PVC, PE, ABS, SAN+PVC, PP
MG2-A U	Surface mounted	U/U	32-160 mm		PVC, PE, ABS, SAN+PVC, PP
MG2	Built-in	U/C - C/C	40-160 mm		PVC, PE, ABS, SAN+PVC
MG2-A	Surface mounted	U/C - C/C	32-160 mm		PVC, PE, ABS, SAN+PVC
MG2-A XL	Surface mounted	U/C - C/C	200-400 mm		PVC, PE, ABS, SAN+PVC

U/U - U/C - C/C - suited for ventilated and non-ventilated plastic pipes

MG-U

- Sealing with standard PUR foam
- Fast installation with or without screws
- No room is lost at the wall crossing
- Aesthetic and invisible finishing

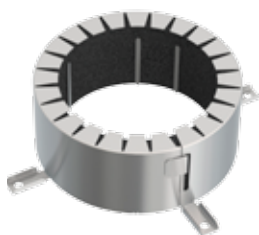|		
Built-in	fast and easy installation (sealing with classic, non fire-resistant PUR foam)	Aesthetic solution
Suitable for PVC	Suitable for PE, ABS and SAN+ PVC pipes	Suitable for PP
Tested U/U	Tested U/C	Tested C/C
Rigid wall	Rigid floor	Flexible wall (metal studs)
Water- and frost-resistant		

MG2-A U

- Fast installation
- Standard tools, no sealing required
- Suitable for ventilated plastic pipes

Surface-mounted	Suitable for PVC	Suitable for PE
Tested U/U	Tested U/C	Tested C/C
Rigid wall	Rigid floor	Flexible wall (metal studs)
Water- and frost-resistant		

U/C - C/C - suited for non-ventilated plastic pipes

MG2

- Aesthetic and invisible finishing
- No room is lost at the wall crossing
- Standard tools and sealing
- MG2+R model is pre-mounted on a PE pipe

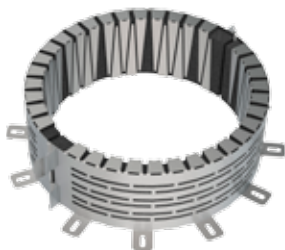|		
Built-in	Water- and frost-resistant	Aesthetic solution
Suitable for PVC	Suitable for PE, ABS and SAN+ PVC pipes	Suitable for PP
Minimal distance	Tested U/C	Tested C/C
Rigid wall	Rigid floor	Flexible wall (metal studs)

MG2-A

- Easy and rapid installation with standard screws
- Minimal collar height for a superior flexibility
- Standard tools, no sealing required
- Ideal for renovation works

|		
Surface-mounted	Water- and frost-resistant	Aesthetic solution
Suitable for PVC	Suitable for PE, ABS and SAN+ PVC pipes	Oblique penetration till 30°
Minimal distance	Tested U/C	Tested C/C
Rigid wall	Rigid floor	Flexible wall (metal studs)

MG2-A XL

- For large diameters up to 400 mm
- Stainless steel casing
- Practical locking system
- Standard tools, no sealing required

|		
Surface-mounted	Water- and frost-resistant	Tested U/C
Suitable for PVC	Suitable for PE, ABS and SAN+ PVC pipes	Tested C/C
Rigid wall	Rigid floor	Flexible wall (metal studs)

Dimensional range

MG-U
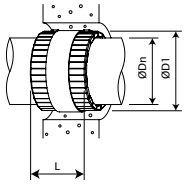
ØDn (mm)			32	40	50	56	63	75	80	90	100	110	125	140	160
D1			49	57	67	73	80	92	101	111	121	131	150	165	185
L			96												
Kg			0,2	0,2	0,2	0,3	0,3	0,3	0,4	0,5	0,5	0,5	0,7	0,8	0,9
	A	Min	Dn+27						Dn+36			Dn+40			
		Max	Dn+50												
	B		Dn+50												

A: Mounting with screws - **B**: Mounting without screws

MG2-A U
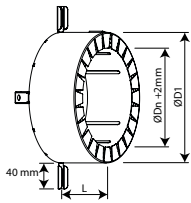
Ø Dn	32	40	50	56	63	75	80	90	100	110	125	140	160
Ø D1	63	71	81	87	94	106	111	121	131	141	175	190	210
L	60										80		
Kg	0,4	0,5	0,5	0,6	0,6	0,7	0,7	0,8	0,8	0,9	2,0	2,1	2,3
# fixations	2						3				4		

Ø Dn (= outer pipe diameter)

MG2
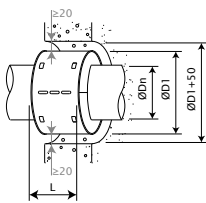
ØDn (mm)	40	50	56	63	75	80	90	100	110	125	160
D1	67	77	83	90	102	123	133	143	153	182	215
L	85									105	
Kg	0,16	0,20	0,21	0,22	0,26	0,43	0,51	0,56	0,58	1,23	1,54
	117	127	133	140	152	173	183	193	203	232	265

MG2-A
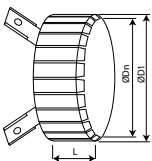
Ø Dn	32	40	50	56	63	75	80	90	100	110	125	140	160
Ø D1	48	58	68	74	80	93	110	125	132	140	173	187	206
L	40												
Kg	0,07	0,11	0,14	0,16	0,18	0,21	0,22	0,26	0,29	0,31	0,40	0,46	0,55
# fixations	2						3				4		

Ø Dn (= outer pipe diameter)

MG2-A XL
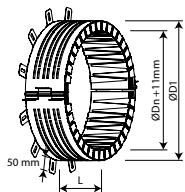
Ø Dn	200	250	315	355	400
Ø D1	271	321	396	436	481
L	100		150		
Kg	2,7	3,2	7,0	7,8	9,6
# fixations	8		10		12

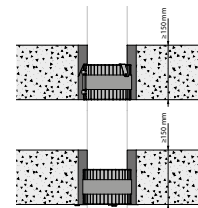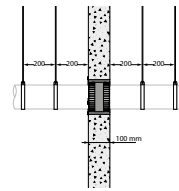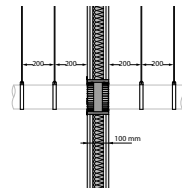Ø Dn (= outer pipe diameter)

Application

MG-U
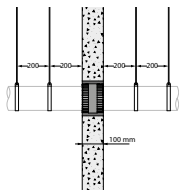
Rigid wall and in flexible wall
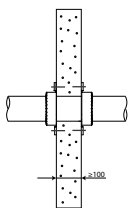(metal stud gypsum plasterboard wall), without screws
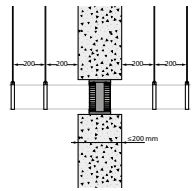
Rgid wall and in flexible wall
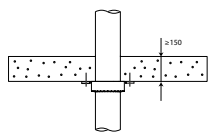(metal stud gypsum plasterboard wall), with screws

Rigid floor,
without or with screws
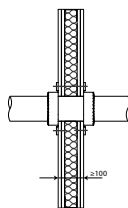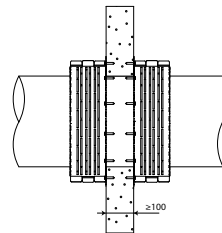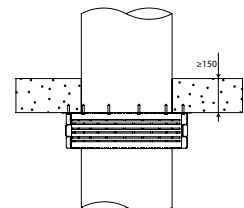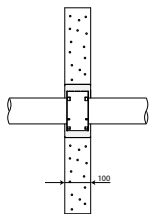
MG2-A U

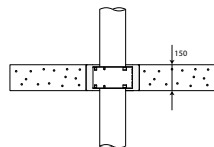Rigid wall
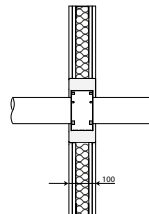
Rigid floor

Flexible wall
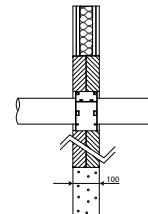
MG2-A XL

Rigid wall

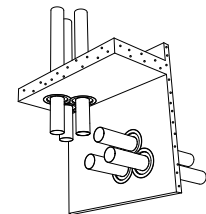Rigid floor

MG2

Rigid wall

Rigid floor

Flexible wall
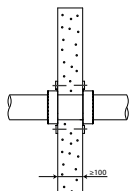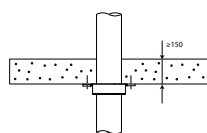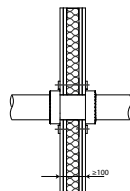
Rigid or flexible wall +
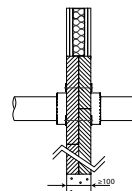pre-coated mineral wool

Minimal distance
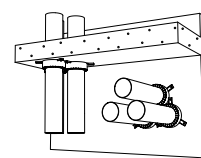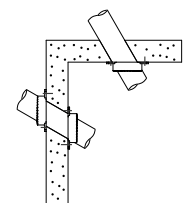
MG2-A

Rigid wall

Rigid floor

Flexible wall

Rigid or flexible wall +
pre-coated mineral
wool

Minimal distance

Oblique penetration
till 30°

Fire resistance U/U - U/C - C/C

FIRE RESISTANCE MG-U

Wall type	Pipe type	Range	Classification
Rigid wall 100 mm	PVC, PE, ABS	32-160	EI 120 UU
	PP	32-160	EI 90 UU
Rigid wall > 100 - 200 mm	PVC, PE, ABS	32-160	EI 120 UU
	PP	32-160	EI 90 UU
Flexible wall	PVC, PE, ABS	32-160	EI 120 UU
	PP	32-160	EI 90 UU
Rigid floor	PVC, PE, ABS	32-160	EI 120 UU
	PP	32-110	EI 120 UU

FIRE RESISTANCE MG2-A U

Wall type	Pipe type	Range	Classification
Rigid wall	PVC, PE, ABS, PP	32-160	EI 120 UU
Flexible wall	PVC, PE, ABS, PP	32-160	EI 120 UU
Rigid floor	PVC, PE, ABS, PP	32-160	EI 120 UU

Fire resistance U/C - C/C

FIRE RESISTANCE MG2

Wall type	Pipe type	Range	Classification
Rigid wall	PVC, PE, ABS	40-160	EI 120 U/C - C/C
Flexible wall	PVC, PE, ABS	40-160	EI 120 U/C - C/C
Rigid floor	PVC, PE, ABS	40-160	EI 180 U/C - C/C

FIRE RESISTANCE MG2-A

Wall type	Pipe type	Range	Classification
Rigid wall	PVC, PE, ABS	32-160	EI 120 U/C - C/C
Flexible wall	PVC, PE, ABS	32-160	EI 120 U/C - C/C
Rigid floor	PVC, PE, ABS	32-160	EI 180 U/C - C/C

FIRE RESISTANCE MG2-A XL

Wall type	Pipe type	Range	Classification
Rigid wall	PVC	200-400	EI 120 U/C - C/C
	PE, ABS	200-250	EI 120 U/C - C/C
Rigid floor	PVC	200-400	EI 120 U/C - C/C
	PE, ABS	200-250	EI 120 U/C - C/C

For more detailed information, please see classifications and DoP.

Installation

The fire-resistant collars are installed around plastic pipes.

They contain a high-quality intumescent material that expands when the temperature reaches about 150°C.

The pipe burns and the intumescent material fills up the opening to prevent the fire from spreading any further.

The installation must comply with the classification report and the installation manual delivered with the product.
See the technical datasheets on www.rft.be
The pipe must be supported in order to guarantee the well-functioning of the sealing during a fire. Supports and fastenings should be realised according to the rules of good craftsmanship. The anchors have to be placed as closely as possible to the wall (at maximum 500 mm for light partition walls). For built-in collars, a single collar in the wall or floor is sufficient. For surface-mounted collars, one collar on the bottom side of the floor is sufficient for floor penetrations. For wall penetrations, a collar should be installed on both sides of the wall.

Quality and simplicity

Rf-Technologies uses high-quality, in-house manufactured materials to produce its fire-resistant collars.
All components are managed and assembled by our company according to the ISO 9001:2008 quality management system.
The Rf-t fire-resistant collars are also easy to install in compliance with the tested configuration, which guarantees the quality and the security of the building site.

Packaging and label

The collars are available per piece.
Each collar is delivered with an identification label that allows to indicate where the fire-resistant sealing is located and underlines its quality.
The QR code on the label refers to an up-to-date classification overview on our website.

CE Marking

Harmonised European standards ensure that the technical performances of construction products are tested according to the same methods in all member-states. The fire resistance of penetration sealing systems is tested according to EN 1366-3 and their classification follows EN 13501-2. The Rf-Technologies collars have been tested and classified by authorised European laboratories according to these standards. The fire-resistant collars MG2, MG2-A, MG2-A U and MG2-A XL are also CE marked in compliance with ETAG 026-2. CE marking according to ETAG 026-2 for MG-U is pending.
In different construction sites, the national legislation demands a specific fire resistance for compartment walls.
You can easily select the appropriate Rf-Technologies collar for your application by consulting its European classification according to the E (integrity) and I (insulation) criteria.

$C\epsilon$

RF-TECHNOLOGIES

Rf-Technologies is a leading European manufacturer of specialist solutions for compartmentation and smoke evacuation. The company sells its products via a vast network of partners in more than fifteen European countries.

Rf-Technologies was founded in 1985. It employs 170 people on two sites; one in Belgium (where its company headquarters are located) and the other in Slovakia. Ongoing investment in research and development testifies to a desire to continually develop and improve the range of products.