

FIRESAFE FIRE COLLAR

PRODUCT DESCRIPTION

FIRESAFE FIRE COLLAR is made of galvanized steel metal frame, covered inside with a thermal expanding graphite material.

The graphite material in FIRESAFE FIRE COLLAR expands at a temperature of 180 °C, to 18 times the original volume and closes openings with flammable pipes.

AREAS OF USE

FIRESAFE FIRE COLLAR is used for fire protection of plastic pipes type PE / PP / PVC / PP-R / PP-MD ≤ Ø 400 mm.

FIRESAFE FIRE COLLAR is used for fire protection of plastic pipes in walls and floors, to ensure a good fire resistance throughout the fire protection construction.

FIRESAFE FIRE COLLAR can be installed in small and large openings, combined with FIRESAFE FT Acrylic, FIRESAFE FT Board or FIRESAFE GPG MORTAR.

Additional product / combination product is selected according to the type of installation as shown in this installation instruction.

ARTICLE / PRODUCT NAME / SIZE

FIRESAFE FIRE COLLAR is delivered in different sizes adapted to size of pipes. See article number on last page.

CERTIFICATION / FIRE RESISTANCE

- FIRESAFE FIRE COLLAR has been tested according to NS -EN 1366-3 (2009) and EN 13501-1/2.
- Certified according to ETA-15/0339.
- Fire resistance EI 30 to EI 240 with extensive applications for walls and floors.
- Fire-classified walls according to EN 1363-1: Walls of gypsum board or walls of masonry /cast construction ≥ 100 mm (density 600-650 kg/m³).
- Fire classified floors according to EN 1363-1: Floors of masonry /cast construction ≥ 150 mm (density 600-650 kg/m³).
- Multiple implementations shall not exceed more than 60 % of the area in the cutout.
- For further details, see Performance Statement / DoP at www.firesafe.no.
- For other technical information of FIRESAFE FIRE COLLAR see Product Data Sheet / TDS.


INSTALLATION

- Clean the pipe for grease and moisture. Remove any debris and dust in the opening.
- Always install FIRESAFE FIRE COLLAR on two sides of the wall and on one side of the lower edge of concrete floor.
- Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.
- Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.
- When applying FIRESAFE FIRE COLLAR to gypsum board wall, use drywall anchors that expand on the back of gypsum board or other special screws for gypsum board.
- When applying FIRESAFE FIRE COLLAR to concrete, use steel expansion anchors for concrete.
- When applying FIRESAFE FIRE COLLAR to FIRESAFE GPG MORTAR, use coarse-threaded screws.
- When applying FIRESAFE FIRE COLLAR to FIRESAFE FT Board, use Fire Protect Screws with length ≥ 40 mm.
- Do not use plugs or screw anchors of nylon or other combustible material.
- There may be used a larger size of FIRESAFE FIRE COLLAR, than pipe diameter with maximum difference ≤ 15 mm.
Example: FIRESAFE FIRE COLLAR Ø 75 mm can be used on pipe Ø 63 mm.
- Do not apply fireproofing mortar between pipes and inside of FIRESAFE FIRE COLLAR.

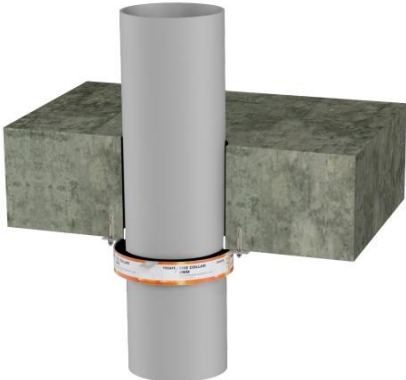


| OVERVIEW OF TYPE OF IMPLEMENTATION AND FIRE RESISTANCE CLASS | | | |
|---|--------|--------|-----------------|
| Rigid floor ≥ 150 mm. Plastic pipes of type PE/PP/ PVC: Ø 40 ≤ Ø 110 mm (core drilled holes) | EI 90 | Page 2 | Detail, fig. 1 |
| Rigid floor ≥ 150 mm. Plastic pipes of type PE Ø 40 ≤ Ø 125 mm (core drilled holes) | EI 180 | Page 2 | Detail, fig. 2 |
| Rigid floor ≥ 150 mm. Plastic pipes of type PE ≤ Ø 125 mm (pipe at an relative to concrete floor) | EI 120 | Page 3 | Detail, fig. 3 |
| Rigid floor ≥ 150 mm. Plastic pipes of type PE/PP/PVC: Ø 140 ≤ Ø 160 mm (core drilled holes) | EI 90 | Page 3 | Detail, fig. 4 |
| Flexible and rigid wall ≥ 100 mm. Plastic pipes of type PE/PP/PVC: Ø 40 ≤ Ø 110 mm (core drilled holes) | EI 60 | Page 4 | Detail, fig. 5 |
| Rigid wall ≥ 100 mm. PE plastic pipe ≤ Ø 110 mm (pipes in row, side by side) | EI 90 | Page 4 | Detail, fig. 6 |
| Rigid wall ≥ 100 mm. PE plastic pipe ≤ Ø 110 mm (pipe at an relative to concrete wall) | EI 120 | Page 5 | Detail, fig. 7 |
| Flexible and rigid wall ≥ 100 mm. Plastic pipes of type PE/PP/ PVC: Ø 125 mm (core drilled holes) | EI 60 | Page 5 | Detail, fig. 8 |
| Flexible and rigid wall ≥ 100 mm. Plastic pipes of type PE/PP/ PVC: Ø 140 ≤ Ø 160 mm (core drilled holes) | EI 60 | Page 6 | Detail, fig. 9 |
| Flexible and rigid wall ≥ 100 mm. Plastic pipes of type PE/PP/ PVC: Ø 200 mm (core drilled holes) | EI 60 | Page 6 | Detail, fig. 10 |
| Flexible and rigid wall ≥ 100 mm. Plastic pipes of type PE/PP/ PVC: Ø 250 mm (recessed in FS FT Board) | EI 60 | Page 7 | Detail, fig. 11 |
| Rigid wall ≥ 150 mm. PVC plastic pipe: Ø 315 ≤ Ø 400 mm (core drilled holes) | EI 90 | Page 7 | Detail, fig. 12 |

FIRESAFE FIRE COLLAR

| Table 1: Rigid floor ≥ 150 | | |
|--|------------------------|---|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $3,4 \leq 10$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| Plastic pipe type, diameter: PP $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $2,7 \leq 6,3$ mm. U/C. | | |
| Plastic pipe type, diameter: PVC $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $2,7 \leq 10$ mm. U/C. | EI 90 | 1 |
| Installation | | Detail, figure 1 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>When applying FIRESAFE FIRE COLLAR to concrete, use steel expansion anchors for concrete.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with lower edge of concrete floor.</p> |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 2: Rigid floor ≥ 150 | | |
|--|------------------------|---|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 40 \leq \varnothing 125$ mm, , pipe wall thickness: $\leq 3,9$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| | | |
| | EI 180 | 2 |
| Installation | | Detail, figure 2 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>When applying FIRESAFE FIRE COLLAR to concrete, use steel expansion anchors for concrete.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with lower edge of concrete floor.</p> |

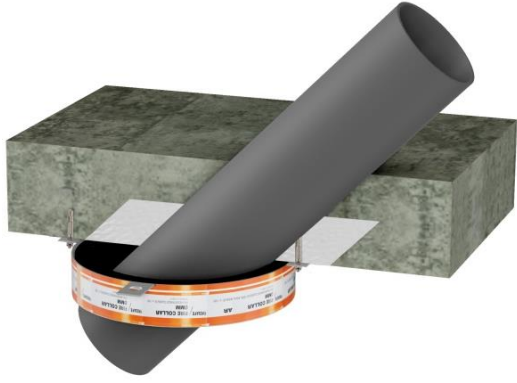
U/C: Unventilated pipe systems e.g. cold or hot water pipes.

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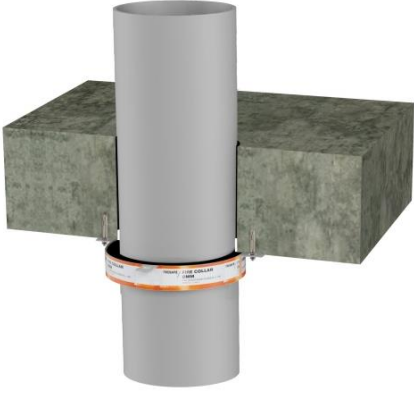
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FIRESAFE FIRE COLLAR

| Table 3: Rigid floor ≥ 150 | | |
|---|------------------------|---|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe at angle relative to the floor | | |
| Plastic pipe type, diameter: PE $\leq \varnothing 125$ mm, pipe wall thickness: $\leq 3,9$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| | EI 120 | 3 |
| Installation | | Detail, figure 3 |
|  <p>Max 45 ° relative to the wall / Drawing shows pipes at 45° relative to the wall</p> | | <p>Pipe insulation at angle relative to concrete floor or implementation sealed with FIRESAFE GPG MORTAR.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Larger openings with pipe at angle are sealed with at least 100 mm thickness of FIRESAFE GPG MORTAR, in flush with the lower edge of floor.</p> <p>There may be used a larger size of FIRESAFE FIRE COLLAR, than pipe diameter with maximum difference ≤ 15 mm.</p> <p>When applying FIRESAFE FIRE COLLAR to concrete floor, use steel expansion anchors for concrete.</p> <p>When applying FIRESAFE FIRE COLLAR to FIRESAFE GPG MORTAR, use coarse-threaded screws.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with lower edge of floor / fire sealing.</p> |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 4: Rigid floor ≥ 150 | | |
|---|------------------------|---|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: $4,9 \leq 14,6$ mm. U/C. Plastic pipe type, diameter: PP $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: $4,0 \leq 14,6$ mm. U/C. Plastic pipe type, diameter: PVC $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: $4,0 \leq 14,6$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| | EI 90 | 4 |
| Installation | | Detail, figure 4 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>When applying FIRESAFE FIRE COLLAR to concrete floor, use steel expansion anchors for concrete.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with lower edge of concrete floor.</p> |


U/C: Unventilated pipe systems e.g. cold or hot water pipes.

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| Table 5: Flexible and rigid wall ≥ 100 | | |
|--|------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $3,4 \leq 10$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| Plastic pipe type, diameter: PP $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $2,7 \leq 6,3$ mm. U/C. | | |
| Plastic pipe type, diameter: PVC $\varnothing 40 \leq \varnothing 110$ mm, pipe wall thickness: $2,7 \leq 10$ mm. U/C. | | |
| | EI 60 | 5 |
| Installation | | Detail, figure 5 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic. Clean the pipe for grease and moisture. Remove any debris and dust in the opening. Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm. Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed. When applying FIRESAFE FIRE COLLAR to gypsum board wall, use drywall anchors that expand on the back of gypsum board or other special screws for gypsum board. * FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides. It is also possible to use cast- in FIRESAFE FT Board or FIRESAFE GPG MORTAR.</p> |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 6: Rigid wall ≥ 100 | | |
|---|------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for PE plastic pipe on line | | |
| Plastic pipe type, diameter: PE $\leq \varnothing 110$ mm, pipe wall thickness: $\leq 3,4$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| 3 plastic pipes $\varnothing 110$ mm on line with FIRESAFE FIRE COLLAR $\leq \varnothing 160$ mm. | | |
| | EI 90 | 6 |
| Installation | | Detail, figure 6 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic. Clean the pipe for grease and moisture. Remove any debris and dust in the opening. Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm. Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed. For plastic pipes on line side by side use min. width 60 mm of FIRESAFE FIRE COLLAR. Figure 6 shows 3 pieces of plastic pipe $\varnothing 110$ mm with 1,5 pieces FIRESAFE FIRE COLLAR $\varnothing 160$ mm, joined together on both sides of the wall. When applying FIRESAFE FIRE COLLAR to concrete wall use steel expansion anchors for concrete. * FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p> |


U/C: Unventilated pipe systems e.g. cold or hot water pipes.

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FIRESAFE FIRE COLLAR

| Table 7: Rigid wall ≥ 100 | | |
|---|------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe at angle relative to the wall | | |
| Plastic pipe type, diameter: PE $\leq \varnothing 110$ mm, pipe wall thickness: $\leq 4,2$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| | EI 120 | 7 |
| Installation | | Detail, figure 7 |
|  <p>Max 45 ° relative to the wall / Drawing shows pipes at 15° relative to the wall</p> | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>There may be used a larger size of FIRESAFE FIRE COLLAR, than pipe diameter with maximum difference ≤ 15 mm.</p> <p>When applying FIRESAFE FIRE COLLAR to concrete wall, use steel expansion anchors for concrete.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p> |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 8: Flexible and rigid wall ≥ 100 | | |
|---|------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 125$ mm, pipe wall thickness: $3,9 \leq 11,7$ mm. U/C. Plastic pipe type, diameter: PP $\varnothing 125$ mm, pipe wall thickness: $3,1 \leq 7,1$ mm. U/C. Plastic pipe type, diameter: PVC $\varnothing 125$ mm, pipe wall thickness: $3,1 \leq 11,7$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| | EI 60 | 8 |
| Installation | | Detail, figure 8 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>When applying FIRESAFE FIRE COLLAR to gypsum board wall, use drywall anchors that expand on the back of gypsum board or other special screws for gypsum board.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p> |

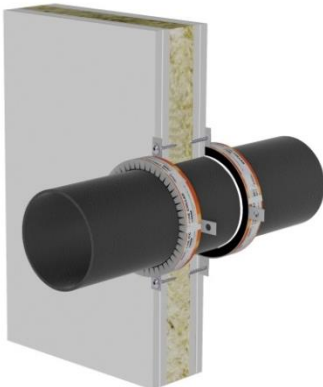
U/C: Unventilated pipe systems e.g. cold or hot water pipes.

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FIRESAFE FIRE COLLAR

| Table 9: Flexible and rigid wall ≥ 100 | | |
|--|------------------------|----------------------------------|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: 4,9 \leq 14,6 mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| Plastic pipe type, diameter: PP $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: 4,0 \leq 14,6 mm. U/C. | | |
| Plastic pipe type, diameter: PVC $\varnothing 140 \leq \varnothing 160$ mm, pipe wall thickness: 4,0 \leq 14,6 mm. U/C. | EI 60 | 9 |
| Installation | | Detail, figure 9 |
| <div></div> <div><p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p><p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p><p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p><p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p><p>When applying FIRESAFE FIRE COLLAR to gypsum board wall, use drywall anchors that expand on the back of gypsum board or other special screws for gypsum board.</p><p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p></div> | | |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 10: Flexible and rigid wall ≥ 100 | | |
|--|------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PE \varnothing 200 mm, pipe wall thickness: $6,2 \leq 18,2$ mm. U/C. | Fire resistance class: | Installation see detail, figure: |
| Plastic pipe type, diameter: PP \varnothing 200 mm, pipe wall thickness: $4,9 \leq 18,2$ mm. U/C. | EI 60 | 10 |
| Plastic pipe type, diameter: PVC \varnothing 200 mm, pipe wall thickness: $4,9 \leq 18,2$ mm. U/C. | | |
| Installation | | Detail, figure 10 |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p> <p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p> <p>When applying FIRESAFE FIRE COLLAR to gypsum board wall, use drywall anchors that expand on the back of gypsum board or other special screws for gypsum board.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p> |

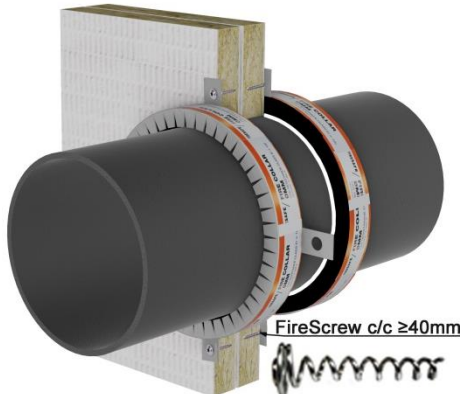
U/C: Unventilated pipe systems e.g. cold or hot water pipes.

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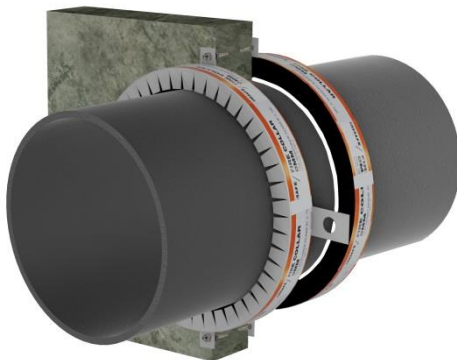
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FIRESAFE FIRE COLLAR

| Table 11: | | | Flexible and rigid wall ≥ 100 | |
|--|--|---|------------------------------------|--|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in large openings or core drilled holes (Recessed in FIRESAFE FT Board) | | | | |
| Plastic pipe type, diameter: PE \varnothing 250 mm, pipe wall thickness: $9,6 \leq 22,7$ mm. U/C. | | Fire resistance class: | Installation see detail, figure:: | |
| Plastic pipe type, diameter: PP \varnothing 250 mm, pipe wall thickness: $6,2 \leq 22,7$ mm. U/C. | | | | |
| Plastic pipe type, diameter: PVC \varnothing 250 mm, pipe wall thickness: $6,2 \leq 16,1$ mm. U/C. | | EI 60 | 11 | |
| Installation | | | Detail, figure 11 | |
|  | | <p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p> <p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p> <p>Note Figure 11:</p> <p>Openings between FIRESAFE FT Board FIRESAFE and FIRESAFE FIRE COLLAR must be sealed with min. 5 mm FIRESAFE FT Acrylic in on both sides as smoke and fire sealing.</p> <p>FIRESAFE FIRE COLLAR is attached to FIRESAFE FT Board with 4 screws type FireScrew.</p> <p>Length of FireScrew must be ≥ 40 mm.</p> <p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides. It is also possible to use cast-in FIRESAFE FT Board.</p> <p>* See also installation instructions for FIRESAFE FT Board.</p> | | |

U/C: Unventilated pipe systems e.g. cold or hot water pipes.

| Table 12: Rigid wall ≥ 150 | | |
|---|------------------------|----------------------------------|
| FIRESAFE FIRE COLLAR, adapted for plastic pipe in small openings or core drilled holes | | |
| Plastic pipe type, diameter: PVC Ø 315 ≤ Ø 400 mm, pipe wall thickness: ≤ 12,5mm. C/C. | Fire resistance class: | Installation see detail, figure: |
| | EI 90 | 12 |
| Installation | | Detail, figure 12 |
| <div></div> <div><p>Installation in core drilled holes with FIRESAFE FT Acrylic.</p><p>Clean the pipe for grease and moisture. Remove any debris and dust in the opening.</p><p>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acrylic, before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT Acrylic must be used for openings up to ≤ 15 mm wide with using a sealant depth of 25 mm.</p><p>Larger openings > 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE FT Board or 100 mm thickness of FIRESAFE GPG MORTAR, before FIRESAFE FIRE COLLAR is installed.</p><p>When applying FIRESAFE FIRE COLLAR to concrete wall use steel expansion anchors for concrete.</p><p>* FIRESAFE FIRE COLLAR must always be installed accurately, in flush with the wall on both sides.</p></div> | | |

C/C: Closed pipe system with permanent water pressure.

FIRESAFE

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FIRESAFE FIRE COLLAR

| Article no.: | Product name: | FIRESAFE FIRE COLLAR width from wall or floor: |
|--------------|-------------------------------|--|
| 105 100 | FIRESAFE FIRE COLLAR Ø 40 mm | 35 mm |
| 105 101 | FIRESAFE FIRE COLLAR Ø 50 mm | 35 mm |
| 105 102 | FIRESAFE FIRE COLLAR Ø 63 mm | 35 mm |
| 105 103 | FIRESAFE FIRE COLLAR Ø 75 mm | 35 mm |
| 105 104 | FIRESAFE FIRE COLLAR Ø 80 mm | 35 mm |
| 105 105 | FIRESAFE FIRE COLLAR Ø 90 mm | 35 mm |
| 105 106 | FIRESAFE FIRE COLLAR Ø 110 mm | 35 mm |
| 105 107 | FIRESAFE FIRE COLLAR Ø 125 mm | 60 mm |
| 105 108 | FIRESAFE FIRE COLLAR Ø 140 mm | 60 mm |
| 105 109 | FIRESAFE FIRE COLLAR Ø 160 mm | 60 mm |
| 105 110 | FIRESAFE FIRE COLLAR Ø 200 mm | 60 mm |
| 105 111 | FIRESAFE FIRE COLLAR Ø 250 mm | 100 mm |
| 105 112 | FIRESAFE FIRE COLLAR Ø 315 mm | 100 mm |
| 105 113 | FIRESAFE FIRE COLLAR Ø 400 mm | 100 mm |

DOMUMENTASJONS INFORMASJON

Overview of applications as well as fire resistance classes are shown in this assembly view.

Other documentation such as product data sheets, material safety data sheets (SDS) and performance statement (DoP) can be downloaded from www.firesafe.no.

Product Certification with / off Performance Statement (DoP); For more information see the certification of CE-branded construction products through ETA on www.eota.eu/;

Always consult with www.firesafe.no for the latest version of assembly instructions, product data sheet and performance statement (DoP), as product development and testing are ongoing processes in FIRESAFE AS.

Contact FIRESAFE AS, Technical Department for other EI-requirements, non-standardized solutions or complex project-specific requirements; Email: firmapost@firesafe.no.



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