#### **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 ºC, 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/m<sup>3</sup>).

- Fire classified floors according to EN 1363-1: Floors of masonry /cast construction ≥ 150 mm (density 600-650 kg/m<sup>3</sup>).
- 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  $\leq$  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 $\geq$ 100 mm. Plastic pipes of type PE/PP/ PVC: Ø 140 $\leq$ 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



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**NSTALLATION INSTRUCTIONS** 

Table 1:	Rigid	floor ≥ 150		
	FIRESAFE FIRE COLLAR, adapted for	plastic pipe in small openin	gs or core drilled holes	•
Plastic pipe type, diamete	er: PE Ø 40 $\leq$ Ø 110 mm, pipe wall thickn er: PP Ø 40 $\leq$ Ø 110 mm, pipe wall thickn er: PVC Ø 40 $\leq$ Ø 110 mm, pipe wall thick	ess: 2,7 ≤ 6,3 mm. U/C.	Fire resistance class: El 90	Installation see detail, figure: 1
	I	nstallation		Detail, figure 1
		Installatio	n in core drilled holes	with FIRESAFE FT Acrylic.
			pipe for grease and mo n the opening.	isture. Remove any debris
	always sea before FIR must be us	eled for smoke and fire ESAFE FIRE COLLAR is in	Id construction must be with FIRESAFE FT Acrylic, nstalled. FIRESAFE FT Acrylic ≤ 15 mm wide with using a	
	must be se Board or 1	ealed with 2 x 50 mm th	en pipes and construction nickness of FIRESAFE FT RESAFE GPG MORTAR, befor I.	
			lying FIRESAFE FIRE CO anchors for concrete.	LLAR to concrete, use steel
			E FIRE COLLAR must alv th lower edge of concre	vays be installed accurately, ete floor.

Table 2:Rigid floor ≥ 150			
FIRESAFE FIRE COLLAR, adapted for plastic pipe in s	mall ope	nings or core drilled holes	
Plastic pipe type, diameter: PE Ø 40 $\leq$ Ø 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
	Installa	ation in core drilled holes v	with FIRESAFE FT Acrylic.
		he pipe for grease and mo st in the opening.	isture. Remove any debris
	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, befor FIRESAFE FIRE COLLAR is installed.		ickness of FIRESAFE FT ESAFE GPG MORTAR, before
		applying FIRESAFE FIRE CO ion anchors for concrete.	LLAR to concrete, use steel
		SAFE FIRE COLLAR must alw with lower edge of concre	vays be installed accurately, ete floor.

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**NSTALLATION INSTRUCTIONS** 

Table 3:Rigid floor ≥ 150			
FIRESAFE FIRE COLLAR, adapted for plastic pip	e at angle	e relative to the floor	
Plastic pipe type, diameter: PE $\leq \emptyset$ 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
	-	sulation at angle relative to nentation sealed with FIRE	
	and dus Larger of 100 mm the low There m than pin When a steel ex	he pipe for grease and moist in the opening. openings with pipe at angle n thickness of FIRESAFE GP rer edge of floor. may be used a larger size of pe diameter with maximum applying FIRESAFE FIRE COL opansion anchors for concre applying FIRESAFE FIRE COL NR, use coarse-threaded scr	e are sealed with at least G MORTAR, in flush with FIRESAFE FIRE COLLAR, n difference ≤ 15 mm. LAR to concrete floor, use ete. LAR to FIRESAFE GPG
Max 45 $^\circ$ relative to the wall / Drawing shows pipes at 45 $^\circ$ relative to the wall		AFE FIRE COLLAR must alw with lower edge of floor /	

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

Table 4: Rig	gid floor ≥ 150			
FIRESAFE FIRE COLLAR, adapted for	r plastic pipe in s	mall openings o	or core drilled holes	
Plastic pipe type, diameter: PE Ø 140 $\leq$ Ø 160 mm, pipe wall thick Plastic pipe type, diameter: PP Ø 140 $\leq$ Ø 160 mm, pipe wall thick Plastic pipe type, diameter: PVC Ø 140 $\leq$ Ø 160 mm, pipe wall thick	kness: 4,0 ≤ 14,6	mm. U/C.	Fire resistance class: El 90	Installation see detail, figure: 4
	Installation			Detail, figure 4
		Installation in	o core drilled holes wi	th FIRESAFE FT Acrylic.
		Clean the pipe and dust in th		ure. Remove any debris
		always sealed before FIRESA	for smoke and fire wi FE FIRE COLLAR is ins for openings up to ≤ 2	construction must be ith FIRESAFE FT Acrylic, talled. FIRESAFE FT Acrylic 15 mm wide with using a
		must be seale Board or 100	d with 2 x 50 mm thic	pipes and construction kness of FIRESAFE FT SAFE GPG MORTAR, before
			g FIRESAFE FIRE COLL on anchors for concret	AR to concrete floor, use te.
			RE COLLAR must alwa ver edge of concrete fl	ys be installed accurately, in oor.

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



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**NSTALLATION INSTRUCTIONS** 

Table 5: Flexible and rigid	wall ≥ 100		
FIRESAFE FIRE COLLAR, adapted for plastic pipe	n small openi	ngs or core drilled holes	
Plastic pipe type, diameter: PE Ø 40 $\leq$ Ø 110 mm, pipe wall thickness: 3,4 $\leq$ 10 Plastic pipe type, diameter: PP Ø 40 $\leq$ Ø 110 mm, pipe wall thickness: 2,7 $\leq$ 6,3 Plastic pipe type, diameter: PVC Ø 40 $\leq$ Ø 110 mm, pipe wall thickness: 2,7 $\leq$ 1	mm. U/C.	Fire resistance class: El 60	Installation see detail, figure: 5
Installation			Detail, figure 5
C: Unventilated pipe systems e.g. cold or hot water pipes.	Clean the and dust Small ope always se before FII must be u sealant du Larger op must be s Board or FIRESAFE When app use dryw board or * FIRESAF in flush w	pipe for grease and moi in the opening. enings between pipes an aled for smoke and fire of RESAFE FIRE COLLAR is in used for openings up to se epth of 25 mm. enings > 15 mm betwee sealed with 2 x 50 mm th 100 mm thickness of FIR FIRE COLLAR is installed plying FIRESAFE FIRE COL all anchors that expand of other special screws for FIRE COLLAR must alw	with FIRESAFE FT Acrylic, installed. FIRESAFE FT Acrylic 5 15 mm wide with using a n pipes and construction ickness of FIRESAFE FT ESAFE GPG MORTAR, before LLAR to gypsum board wall, on the back of gypsum gypsum board. rays be installed accurately, is. It is also possible to use
Table 6:     Rigid wall ≥ 100			
FIRESAFE FIRE COLLAR, adapted fo	r PE plastic pi	pe on line	
Plastic pipe type, diameter: PE $\leq \emptyset$ 110 mm, pipe wall thickness: $\leq$ 3,4 mm. U/ 3 plastic pipes $\emptyset$ 110 mm on line with FIRESAFE FIRE COLLAR $\leq \emptyset$ 160 mm.	С.	Fire resistance class:	Installation see detail, figure:
- Firene Fifes / / /		EI 90	6
Installation			Detail, figure 6
	Installation in core drilled holes with FIRESAFE FT A         Clean the pipe for grease and moisture. Remove any and dust in the opening.         Small openings between pipes and construction must always sealed for smoke and fire with FIRESAFE FT A         before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT A         before FIRESAFE FIRE COLLAR is installed. FIRESAFE IT         must be used for openings up to ≤ 15 mm wide with sealant depth of 25 mm.         Larger openings > 15 mm between pipes and construmust be sealed with 2 x 50 mm thickness of FIRESAFE Board or 100 mm thickness of FIRESAFE GPG MORT/FIRESAFE FIRE COLLAR is installed.         For plastic pipes on line side by side use min. width FIRESAFE FIRE COLLAR.         Figure 6 shows 3 pieces of plastic pipe Ø110 mm with pieces FIRESAFE FIRE COLLAR Ø160 mm, joined toge both sides of the wall.         When applying FIRESAFE FIRE COLLAR must always be installed act in flush with the wall on both sides.		sture. Remove any debris d construction must be with FIRESAFE FT Acrylic, istalled. FIRESAFE FT Acrylic 5 15 mm wide with using a n pipes and construction ickness of FIRESAFE FT ESAFE GPG MORTAR, befor de use min. width 60 mm of pipe Ø110 mm with 1,5 50 mm, joined together on LLAR to concrete wall use st

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Table 7:Rigid wall ≥ 100			
FIRESAFE FIRE COLLAR, adapted for plastic pi	pe at angl	e relative to the wall	
Plastic pipe type, diameter: PE $\leq \emptyset$ 110 mm, pipe wall thickness: $\leq$ 4,2 mm. U/C.	lastic pipe type, diameter: PE $\leq \emptyset$ 110 mm, pipe wall thickness: $\leq$ 4,2 mm. U/C.		Installation see detail, figure:
		EI 120	7
Installation	Installation		Detail, figure 7
	Installa	ation in core drilled holes v	vith FIRESAFE FT Acrylic.
		he pipe for grease and moi st in the opening.	sture. Remove any debris
	always before must b	ppenings between pipes an sealed for smoke and fire v FIRESAFE FIRE COLLAR is ir e used for openings up to s t depth of 25 mm.	with FIRESAFE FT Acrylic, Istalled. FIRESAFE FT Acrylic
	must b Board d	openings > 15 mm betwee e sealed with 2 x 50 mm th or 100 mm thickness of FIR FE FIRE COLLAR is installed	ickness of FIRESAFE FT ESAFE GPG MORTAR, befor
		may be used a larger size of pe diameter with maximur	
		When applying FIRESAFE FIRE COLLAR to concrete wall, use steel expansion anchors for concrete.	
Max 45 $^\circ$ relative to the wall / Drawing shows pipes at 15 $^\circ$ relative to the wall		SAFE FIRE COLLAR must alw with the wall on both side	
C: Unventilated pipe systems e.g. cold or hot water pipes.			
Flexible and rigid w	all ≥ 100		
FIRESAFE FIRE COLLAR, adapted for plastic pipe in	small ope	nings or core drilled holes	
Plastic pipe type, diameter: PE Ø 125 mm, pipe wall thickness: 3,9 $\leq$ 11,7 mm. U,		Fire resistance class:	Installation see detail,
Plastic pipe type, diameter: PP Ø 125 mm, pipe wall thickness: $3,1 \le 7,1$ mm. U/O		<b>T</b> 1 60	figure:
Plastic pipe type, diameter: PVC Ø 125 mm, pipe wall thickness: $3,1 \le 11,7$ mm. Installation	U/C.	EI 60	8
			Detail, figure 8
	<ul> <li>Clean the pipe for grease and moisture. Remove any del and dust in the opening.</li> <li>Small openings between pipes and construction must be always sealed for smoke and fire with FIRESAFE FT Acryl before FIRESAFE FIRE COLLAR is installed. FIRESAFE FT A must be used for openings up to ≤ 15 mm wide with usin sealant depth of 25 mm.</li> <li>Larger openings &gt; 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, I FIRESAFE FIRE COLLAR is installed.</li> <li>When applying FIRESAFE FIRE COLLAR to gypsum board use drywall anchors that expand on the back of gypsum board.</li> <li>* FIRESAFE FIRE COLLAR must always be installed accuration flush with the wall on both sides.</li> </ul>		d construction must be with FIRESAFE FT Acrylic, istalled. FIRESAFE FT Acrylic 15 mm wide with using a n pipes and construction ickness of FIRESAFE FT ESAFE GPG MORTAR, befor LAR to gypsum board wall, on the back of gypsum

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

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**NSTALLATION INSTRUCTIONS** 

Table 9: Flexible an	d rigid wall ≥ 100		
FIRESAFE FIRE COLLAR, adapted for plas	stic pipe in small opening	s or core drilled holes	
Plastic pipe type, diameter: PE Ø 140 ≤ Ø 160 mm, pipe wall thickness Plastic pipe type, diameter: PP Ø 140 ≤ Ø 160 mm, pipe wall thickness Plastic pipe type, diameter: PVC Ø 140 ≤ Ø 160 mm, pipe wall thickne	s: 4,0 ≤ 14,6 mm. U/C.	Fire resistance class: El 60	Installation see detail, figure: 9
Inst	allation		Detail, figure 9
	Installation	in core drilled holes wi	th FIRESAFE FT Acrylic.
C: Unventilated pipe systems e.g. cold or hot water pipes.	and dust in Small open always sea before FIRt must be us sealant dep Larger ope must be se Board or 10 FIRESAFE F When appl use drywal board or of * FIRESAFE	the opening. ings between pipes and ed for smoke and fire wi SAFE FIRE COLLAR is ins- ed for openings up to $\leq 2$ bith of 25 mm. hings > 15 mm between aled with 2 x 50 mm thic 00 mm thickness of FIRES IRE COLLAR is installed. ying FIRESAFE FIRE COLL anchors that expand or her special screws for gy	ith FIRESAFE FT Acrylic, talled. FIRESAFE FT Acryli 15 mm wide with using a pipes and construction kness of FIRESAFE FT SAFE GPG MORTAR, befor AR to gypsum board wall, the back of gypsum ypsum board. ys be installed accurately,
	nd rigid wall ≥ 100		
FIRESAFE FIRE COLLAR, adapted for plas		s or core drilled holes	
Plastic pipe type, diameter: PE Ø 200 mm, pipe wall thickness: $6,2 \le 1$ Plastic pipe type, diameter: PP Ø 200 mm, pipe wall thickness: $4,9 \le 1$ Plastic pipe type, diameter: PVC Ø 200 mm, pipe wall thickness: $4,9 \le 1$	8,2 mm. U/C. 8,2 mm. U/C.	Fire resistance class:	Installation see detail, figure: 10
	allation		Detail, figure 10
	Clean the p and dust in Small open always sea before FIRE must be us sealant dep Larger ope must be se Board or 10 FIRESAFE F When appl use drywal board or of * FIRESAFE	<ul> <li>Installation in core drilled holes with FIRESAFE FT A</li> <li>Clean the pipe for grease and moisture. Remove and and dust in the opening.</li> <li>Small openings between pipes and construction mu always sealed for smoke and fire with FIRESAFE FT A</li> <li>before FIRESAFE FIRE COLLAR is installed. FIRESAFE must be used for openings up to ≤ 15 mm wide with sealant depth of 25 mm.</li> <li>Larger openings &gt; 15 mm between pipes and construction must be sealed with 2 x 50 mm thickness of FIRESAFE Board or 100 mm thickness of FIRESAFE GPG MORT FIRESAFE FIRE COLLAR is installed.</li> <li>When applying FIRESAFE FIRE COLLAR to gypsum board or other special screws for gypsum board.</li> <li>* FIRESAFE FIRE COLLAR must always be installed are in flush with the wall on both sides.</li> </ul>	

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



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**NSTALLATION INSTRUCTIONS** 

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 Ø 250 mm, pipe wall thickness:  $9,6 \le 22,7$  mm. U/C. Fire resistance class: Installation see Plastic pipe type, diameter: PP Ø 250 mm, pipe wall thickness:  $6,2 \le 22,7$  mm. U/C. detail, figure:: Plastic pipe type, diameter: PVC Ø 250 mm, pipe wall thickness:  $6,2 \le 16,1$  mm. U/C. EI 60 11 Installation Detail, figure 11 Installation in core drilled holes with FIRESAFE FT Acrylic. Clean the pipe for grease and moisture. Remove any debris and dust in the opening. Note Figure 11: 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. FIRESAFE FIRE COLLAR is attached to FIRESAFE FT Board with 4 screws type FireScrew. Length of FireScrew must be  $\geq$  40 mm. \* FIRESAFE FIRE COLLAR must always be installed FireScrew c/c ≥40mm accurately, in flush with the wall on both sides. It is also possible to use cast-in FIRESAFE FT Board. \* See also installation instructions for FIRESAFE FT Board.

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

Table 12:Rigid wall ≥ 150			
FIRESAFE FIRE COLLAR, adapted for plastic pi	pe in small open	ings or core drilled holes	
Plastic pipe type, diameter: PVC Ø 315 ≤ Ø 400 mm, pipe wall thickness: ≤ 3	12,5mm. C/C.	Fire resistance class:	Installation see detail, figure:
		EI 90	12
Installatio	on		Detail, figure 12
	Installat	ion in core drilled holes wi	th FIRESAFE FT Acrylic.
		e pipe for grease and moist in the opening.	ure. Remove any debris
	always s before F must be	enings between pipes and ealed for smoke and fire wi IRESAFE FIRE COLLAR is ins used for openings up to ≤ 3 lepth of 25 mm.	ith FIRESAFE FT Acrylic, talled. FIRESAFE FT Acrylic
	must be Board or	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, be FIRESAFE FIRE COLLAR is installed.	
umu		When applying FIRESAFE FIRE COLLAR to concrete wall us expansion anchors for concrete.	
	* FIRESA	FE FIRE COLLAR must alwa	ys be installed accurately,

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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

#### DOMUMEMTASJONS 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 El-requirements, non-standardized solutions or complex project-specific requirements; Email: firmapost@firesafe.no.



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