

HILTI CFS-C P Collar Firestop User Manual

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HILTI CFS-C P Collar Firestop



Firestopping for flammable pipes up to 250 mm in diameter with European Technical Approval.



Applications

- Sealing flammable pipes from 32 mm to 250 mm in diameter in penetrations through fire compartment walls and floors
- Pipe materials: PVC-C, PVC-U, PE, PE-HD, PE-X, PE-S2, PP, PP-R, ABS, Al-composite
- Suitable for use in openings in concrete, aerated concrete, masonry, drywall and in combination with coated board
- Different backfilling and sealing materials are covered

Advantages

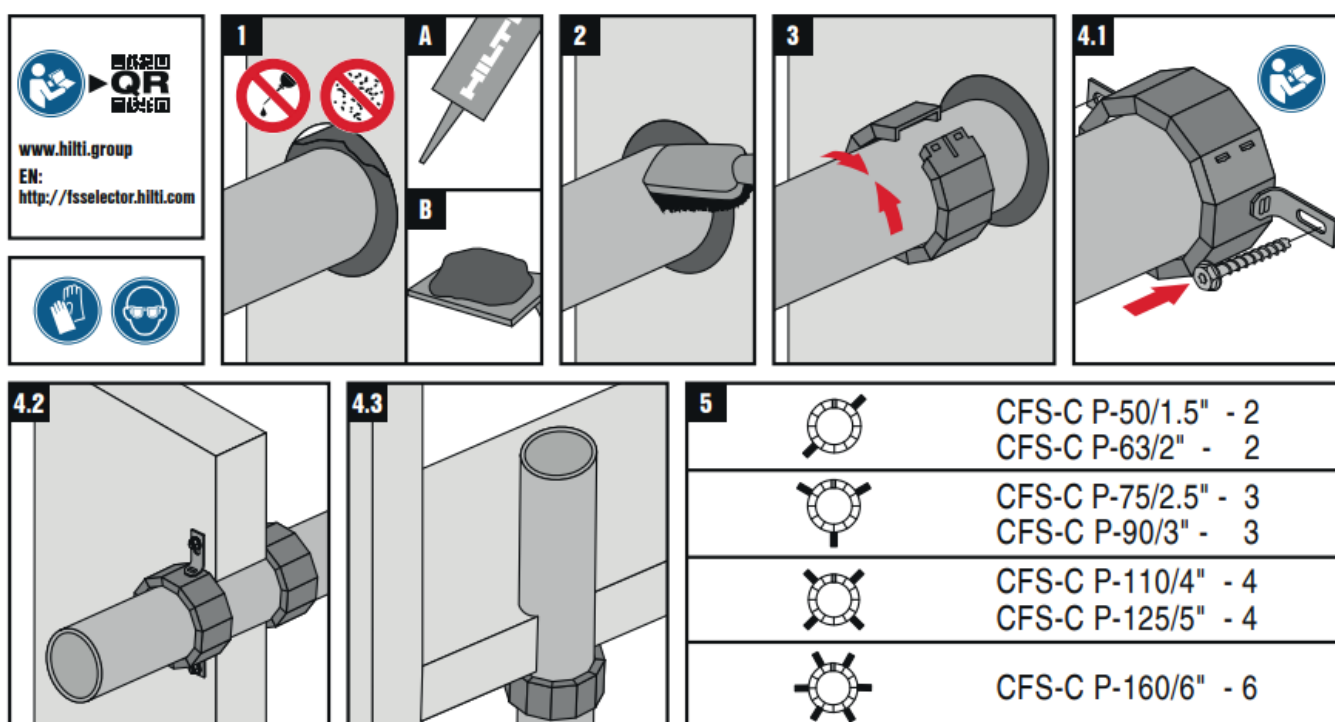
- Quick and easy closure without use of a tool
- Adjustable position tabs for simple fastening
- Sound decoupling strip based on PE (foam) can be used
- Low profile for tight installations

Technical Data

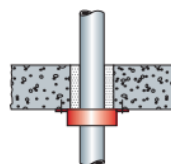
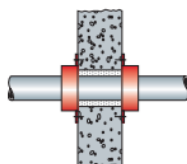
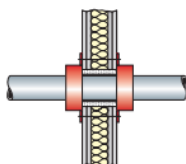
- Base materials Concrete, Masonry, Drywall
- Minimum wall thickness 100 mm
- Minimum floor thickness 150 mm
- Storage and transportation temperature – range –5° C to 50° C
- Application temperature range –5° C to 50° C
- Temperature resistance range –20° C to 100° C
- Closure of annual gap Gypsum plaster, cementitious mortar, Hilti Firestop Acrylic Sealant CFS-S ACR

Nominal pipe diameter	Number of hooks and fasteners	Order designation	Sales quantity	Item number
50 mm	2	Firestop Collar CFS-C P 50 / 1.5"	1 pc	435406
63 mm	2	Firestop Collar CFS-C P 63 / 2"	1 pc	435407
75 mm	3	Firestop Collar CFS-C P 75 / 2.5"	1 pc	435408
90 mm	3	Firestop Collar CFS-C P 90 / 3"	1 pc	435409
110 mm	4	Firestop Collar CFS-C P 110 / 4"	1 pc	435410
125 mm	4	Firestop Collar CFS-C P 125 / 5"	1 pc	435411
160 mm	6	Firestop Collar CFS-C P 160 / 6"	1 pc	435412
180 mm	8	Firestop Collar CFS-C P 180 / 7"	1 pc	435413
200 mm	8	Firestop Collar CFS-C P 200 / 8"	1 pc	435414
225 mm	10	Firestop Collar CFS-C P 225 / 9"	1 pc	435415
250 mm	12	Firestop Collar CFS-C P 250 / 10"	1 pc	435416

INSTRUCTION FOR USE: CFS-C P






GENERAL INFORMATION



Partition	Flexible Wall	Rigid Wall	Rigid Floor
Base material thickness (t _E) density	≥ 100 mm	≥ 100 mm ≥ 450 kg/m ³	≥ 150 mm ≥ 2400 kg/m ³
Minimum seal depth	25 mm CFS-S ACR	15 mm CFS-S ACR	10 mm CFS-S ACR
Fixing to wall	M8 threaded rods + nuts	HUS, DBZ, HAS Ø ≥ 6 mm for collar up to 110 mm, Ø ≥ 10 mm larger collars	
Gap filler	CFS-S ACR, gypsum, cementitious mortar		CFS-S ACR with backfilling, gypsum, cementitious mortar
Penetrant	PVC-C, PVC-U, PE, PE-HD, PE-X, PE-S2, PP, PP-R, ABS, Al-composite		

Note: The opening diameter should not be larger than the collar outside diameter to allow a safe fixing of the collar to wall/floor

MAIN APPROVED APPLICATIONS

Applications	Pipe material	Pipe Ø (mm)	Flexible & rigid wall ≥ 100 mm	Rigid wall ≥ 150 mm	Rigid floor
Waste water 	PVC-U (EN ISO 1452, EN 1329-1, EN 1453-1) and PVC-C (EN 1566-1)	50–160	EI 120 U/U		EI 120U/U
		180–250	-	EI 180 U/U	
	PE PE (EN 1519, EN 12666-1), ABS and PE-HD	50–160	EI 120 U/U		EI 120 U/U
		200–250	-	EI 120 U/U	
		32–110	EI 120 U/U		EI 90U/U
	PP (EN 1451-1, DIN EN 12056)*	125–160	-		
		200–250	-	EI 120 C/U	
Industry 	PVC-U (EN ISO 15493, DIN 8061/8062)	50–160	EI 120 U/U		EI 120 U/U
		180–250	-	EI 180 U/U	
	PE (EN ISO 15494, DIN 8074/8075)	50–160	EI 120 U/U		EI 120 U/U
		180–200	-	EI 120 U/U	
		200–250	-	EI 180 U/U	EI 120 U/C
		50	EI 90 U/U		
		63	EI 60 U/U		EI 180 U/U
	PP (DIN 8077/8078)	75–110	EI 120 U/U		
		110–125	-		
	Potable water 		50	EI 90 U/U	
		63	EI 60 U/U		
PP (EN ISO 15874, DIN 8077/8078)		75–110	EI 120 U/U		EI 180 U/U
		110–125	-		
PE (EN 12201-2)		50–160	EI 120 U/U		EI 120 U/U
		200–250	-	EI 120 U/U	

e.g. Magnaplast (R): Skolan dB (R), Phonex AS (R); Pipelife (R): Master 3 (R); POLOPLAST (R): Polo Kal NG (R); POLOPLAST (R): Polo Kal 3 S (R); Rehau (R), Raupiano Plus (R), Wavin (R); AS (R)/KeKelit (R); Phonex AS (R); Wavin (R); SciTech (R). Close (R); Blue Power (R), Cloes (R); PhoNoFire (R), Valsire (R); Triplus (R), Valsire (R); Silere (R), Geberit (R); Silent PP (R) Excerpt of ETA document. Check the exact field of application (pipe types and diameters, pipe types, diameters and wall thickness, insulations types) in the ETA 10/0404 document.

OTHER APPROVED APPLICATIONS

Wide range of branded plastic pipes through walls and floors approved



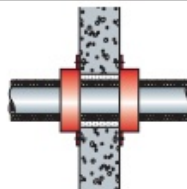
See ETA 10/0404 for list of approved pipes (+GF+, Aquatherm, Geberit, KeKelit, Magnaplast, Pipelife, POLOPLAST, Rehau, Wavin)

Pre-insulated pipes through walls and floors. PE-HD pipes (+GF+ Cool-Fit) with ABS/PUR insulation



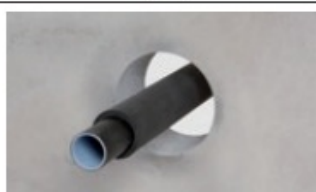
See ETA 10/0404 for list of approved pipe sizes from +GF+ Pipings Systems

Plastic and Composite pipes with Armaflex AF insulation through walls and floors



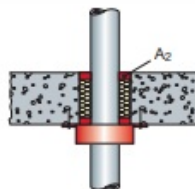
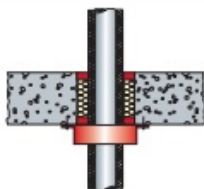
See ETA 10/0404 for list of approved pipes and configurations. PE, PP, branded (Aquatherm Wavin Friatec Rehau +GF+ Geberit Ke Kelit...)

Composite pipe (PE-Xb/Al/ PE-HD e.g. Geberit Mepla) approved through rigid floor and wall



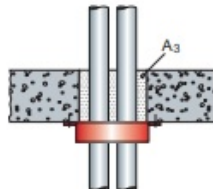
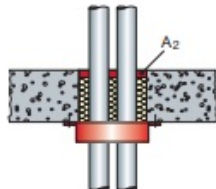
See ETA 10/0404 for list of approved pipes and configurations. Ø 40, 50, 63 and 75mm

Approved configurations with 550 kg/m³ rigid floors. Insulated and non-insulated pipes.



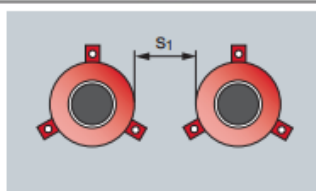
See ETA 10/0404 for list of approved pipes. Pre-insulated plastic pipes, PVC-U, PE, PP and various branded pipes

2 pipes in single collar configurations through rigid floors



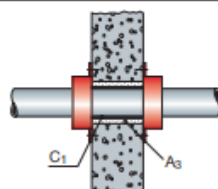
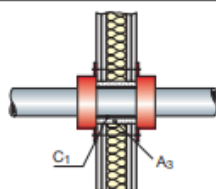
See ETA 10/0404 for list of approved pipes and configurations. PE EN 15494 or DIN 8074/5 2 x Ø 20mm

Zero distance between collars $S_1 = 0$



See ETA 10/0404 for details of approved pipes and configurations

Sound decoupling strip (C1) to be used with Gypsum or Mortar as gap filler (A3) to improve acoustic performances.



PE foam sound decoupling strips. Maximum allowed thickness ranges from 5 mm to 9 mm depending on the configuration. See ETA 10/0404 for more details

CHARACTERISTICS OF FIRESTOP COLLAR CFS-C P

Characteristics	Assessment of characteristics	Norm, standard, test
Health and the environment Air permeability (tightness) Water permeability	Airtightness can be achieved up to 250 Pa when annular gap is sealed with a sealant e.g. Hilti Firestop Acrylic Sealant CFS-S ACR (10 mm thick) or Hilti Firestop Mastic Filler CFS-FIL (10 mm thickness). Watertight to 1 m head of water up to 3 days for Hilti Firestop Acrylic Sealant CFS-S ACR.	EN 1026 ETAG 026-2
Dangerous substances	CFS-C P does not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulations (EC) no 1272/2008 as well as EOTA TR 034, edition March 2012 above the acceptable limits.	Material safety data sheet
Protection against noise (Airborne sound insulation)	The following airborne sound insulation for a single penetration of plastic pipe firestopped with Hilti Firestop Collar CFS-C P can be achieved when the annular gap is sealed. With Hilti Firestop Acrylic Sealant CFS-S ACR with mineral wool back filling: Flexible wall $R_w = 53 \text{ dB}$ $D_{n,w} = 60 \text{ dB}$ Rigid wall $R_w = 51 \text{ dB}$ $D_{n,w} = 58 \text{ dB}$ With cementitious mortar: Rigid wall $R_w = 52 \text{ dB}$ $D_{n,w} = 59 \text{ dB}$	EN ISO 140-3 EN ISO 20140-10 EN ISO 717-1
Durability and serviceability	Category Z ₂ (suitable for penetration seals intended for use in dry indoor conditions excluding temperatures below 0° C).	ETAG 026-2
Reaction to fire	Class E	EN 13501-1

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Documents / Resources

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