Firestop collar endless CFS-C EL

Applications

- Approved for use with PVC, PP, PE and a wide array of standard acoustic pipes
- Configurations tested include pipe elbows, inclined pipes, pipes with limited clearance to the wall
- Acoustic pipes tested with insulation and sound decoupling
- Zero distance required to CFS-B firestop bandage, CFS-C EL firestop endless collar and Conlit
- Suitable for use on shaft walls, coated board, drywall, aerated concrete, masonry and concrete

Advantages

- Endless solution: one product for all applications
- Problem solver for non-standard applications
- Easy installation
- Flexible solution for waste water, roof drainage and pneumatic pipes
- Well-suited to complex pipe configurations

Technical data

Base materials	Drywall, Aerated concrete, Concrete, Masonry
Pipe diameter - range	16 - 160 mm
Application temperature range	-5 - 50 °C
Temperature resistance range	-30 - 80 °C
Reaction to fire class (EN 13501-1)	E
Dimensions (LxWxH)	2580 x 52 x 17 mm
Shelf life[1)]	Not relevant
LEED VOC	11 g/l
Mold and mildew performance	Class 0 (EN ISO 846)

[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

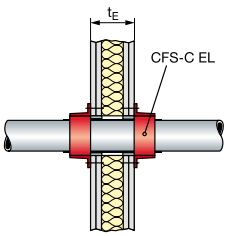
Scan this code to find out more:
hilti.co.uk/cfs-cel

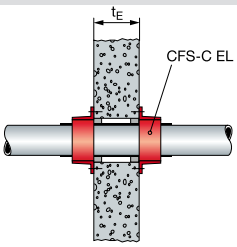
Ordering designation	Height	Package contents	Sales pack quantity	Item number
CFS-C EL	17 mm	1x Firestop bandage CFS-C EL, 18x Closure plate CFS-C EL, 22x Hook CFS-C EL short	1 pc	**2075120**

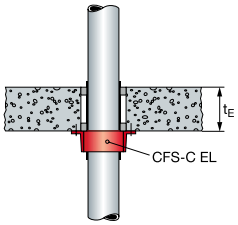
Accessories CFS-C EL

Order description	Package contents	Item number
Closure plate CFS-C EL	18x Closure plates	**2075121**
Hook CFS-C EL short	22x Short hooks	**2075122**
Hook CFS-C EL long	2x Long hooks	**2075123**

General information





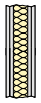


Partition	Flexible wall	Rigid wall	Rigid floor
Base material thickness (t_E)	≥ 100 mm	≥ 100 mm	≥ 150 mm
Annular gap	0 - 15 mm	0 - 40 mm	
Fixing to wall	HTB-S, HHD-S	HUS-H, HUS-P	
Gap filler	CFS-S ACR*	CFS-S ACR* +Mineral wool backfilling for annular gap > 15 mm	
Penetration	Plastic pipes (PE, PP, PVC, ABS...)		

*Use CFS-S ACR as gap filler, unless otherwise noted. See ETA for full details for the correct application.

Main approved applications

Excerpt of ETA document. Check the exact field of application for each pipe (type, diameter and pipe wall thickness) in the ETA 14/0085 document.

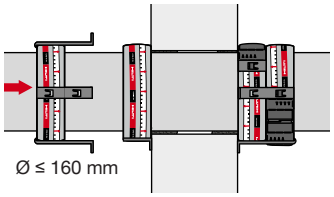


Application	Pipe material	Pipe Ø mm	Flexible wall	Rigid wall	Rigid floor
Waste water	PVC (EN 1452-1, EN 1329-1, EN 1453-1, EN 1566-1)	32 to 110	EI 120 U/U		
	PE (EN 1519-1, EN 12666-1, EN 2201-2) Geberit db20		EI 120 U/U		
	PP (EN 1451-1), DIN 8077/78		EI 120 U/C to EI 120 U/U		EI 90 U/U to EI 120 UU
	Mineralised PP acoustic pipes**		EI 120 U/U		
Letter shots	PVC-U (DIN 6660)		EI 90 U/U		EI 120 U/U
Industrial	PE (EN 15494, EN 12201-2, DIN 8074/75) Wavin W		EI 90 U/C to EI 120 U/U		EI 120 U/U
Various	ABS (EN 1455-1, EN 15493) and SAN+PVC (EN 1565-1)		EI 60 U/U to EI 90 U/U		EI 120 U/U

**Non-regulated pipes : Coes PhoNoFire®, Coes blue power, Geberit Silent PP, Ke Kelit Phonex AS, Marely Silent, Maincor Mainpower, Ostendorf-Gruppe, Skolan db, Pipelife Master 3, Poloplast Polokal NG, Poloplast Polokal 3S, Raupiano Plus, Valsir Triplus, Wavin SiTech, Wavin AS.

Other approved applications

Straight large pipes
For pipes 125 mm ≤ Ø ≤160 mm

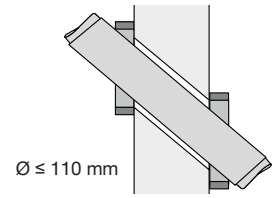


Watch instructional video

View ETA 14/0085 for details of approved pipes

Buy long hooks for 2nd Endless Collar (#2075123)

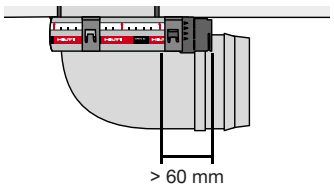
Inclined pipes
For pipes Ø ≤ 110 mm



Watch instructional video

View ETA 14/0085 for details of approved pipes

Elbow pipes
For pipes Ø ≤110 mm



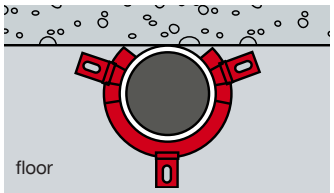
Watch instructional video

View ETA 14/0085 for details of approved pipes

Buy CFS-FIL sealant (#2052899)

Pipe on wall / pipe in corner
For pipes Ø ≤ 110 mm

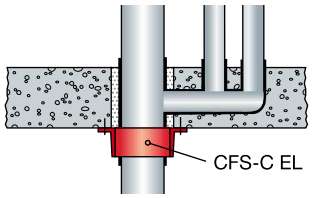
Pipes through floors, CFS-C EL to completely cover pipe perimeter.



View ETA 14/0085 for details of approved pipes

Pipe junctions in floor (manifold)
For pipes Ø ≤ 160 mm

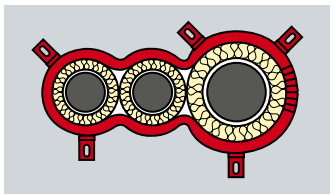
CFS-C EL only installed on main waste water pipe.

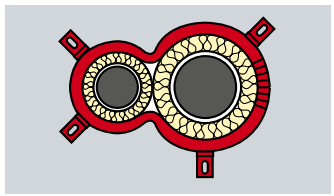


View ETA 14/0085 for details of approved pipes

Multiple pipes in one collar
For pipes 40 mm ≤ Ø ≤ 90 mm

Distance between hooks ≤ 150 mm.



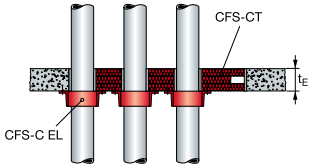


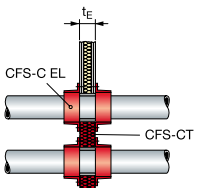
View ETA 14/0085 for details of approved pipes

Zero distance to CFS-C EL, Conlit, CFS-B
For pipes Ø ≤ 110 mm

View ETA 14/0085 for details of approved pipes and configurations

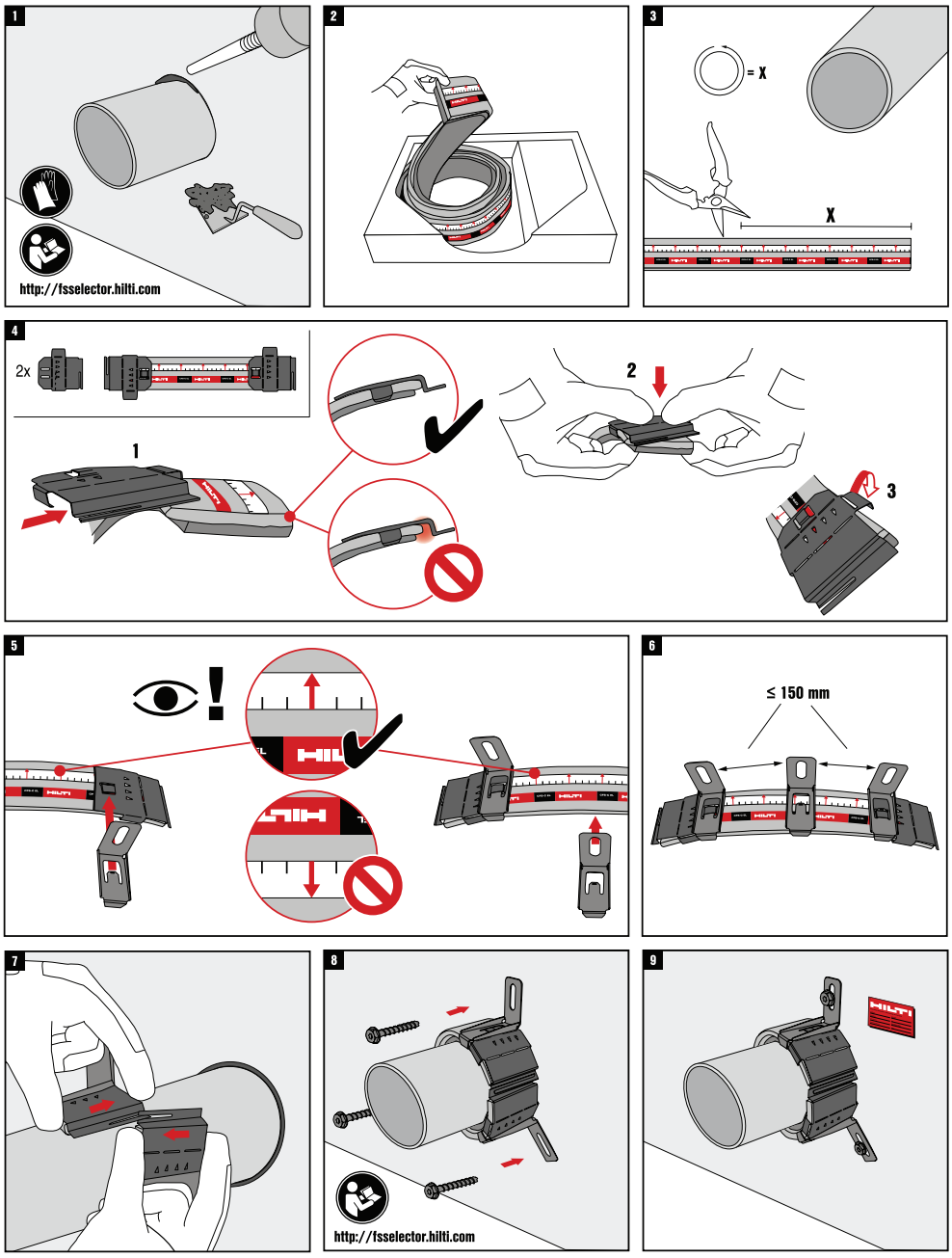
Coated boards
For pipes Ø ≤ 100 mm





View ETA 14/0085 for details of approved pipes through coated boards in floors and walls

General instruction for use



Recommended length and number of hooks (standard applications)

= X		Ø mm	- CFS C-EL mm	4 mm CFS C-EL mm	9 mm CFS C-EL mm	13 mm CFS C-EL mm	25 mm CFS C-EL mm
Ø ≤ 110 mm	2x	16	130	130	160	180	260
		32	150	180	210	230	310
		40	180	200	230	260	340
		50	210	230	270		
	3x	56	230	250	290		
		63	250	280	310		
		75	290	310	340		
		90	340	360	390		
		110	400	420	450		

Characteristics of CFS-C EL

Characteristics	Assessment of characteristics	Norm, standard, test
Health and the environment Air permeability (gas tightness) Water permeability	Air tightness / smoke tightness and water tightness for a single penetration of a plastic pipe firestopped with Hilti Firestop Collar Endless CFS-C EL can be achieved when the annulargap is sealed with Hilti Firestop Acrylic Sealant CFS-S ACR (10 mm thickness). q/A [m^3/(h x m^2)] at Δ p 50 Pa / Δ p 250 Pa Air: 1.9 x 10-6 / 9.7 x 10-6 Nitrogen: 1.1 x 10-6 / 5.5 x 10-6 CO2: 6.4 x 10-5 / 3.2 x 10-4 Methane: 4.3 x 10-5 / 2.1 x 10-4 Watertight to 1 m head of water or 9806 Pa.	EN 1026 ETAG 026-2
Dangerous substances	CFS-C EL is in compliance concerning the registration, evaluation, authorization and restriction of Chemicals (REACH). The product does not contain any constituents contained in the list of dangerous substances of the European Commission above the acceptable limits.	Material safety data sheet
Protection against noise Airborne sound insulation	$D_{n,e,w}$ (C; Ctr) = 64 (–3; –3) dB Hilti Firestop Acrylic Sealant CFS-S ACR: Flexible wall: R_w = 53 dB $D_{n,w}$ = 60 dB Rigid wall: R_w = 51 dB $D_{n,w}$ = 58 dB	IFT – Rosenheim ETAG 026-2 EN ISO 140-3 EN ISO 20140-10 EN ISO 717-1
Durability and serviceability	Category Y2 (suitable for penetration seals intended for use at temperatures between – 20 °C and + 70 °C) no exposure to rain or UV.	EOTA Technical Report TR024 ETAG 026-2
Reaction to fire	Class E	EN 13501-1