



#### Approved for typical pipe configurations.



**Inclined pipes from 45 to 90 degrees**  
Approved for flexible walls, rigid walls and rigid floors. For PVC, PP, PE, ABS and 15 acoustic pipes up to 110 mm diameter with or without sound decoupling up to 9 mm thick.



**Pipe elbows**  
Approved for use on flexible walls, rigid walls and rigid floors. Suitable for 15 patented acoustic pipe types up to 110 mm diameter, with or without sound decoupling up to 9 mm thick.



**Pipes in corners/against the wall**  
Approved for rigid walls and rigid floors. For PVC, PP, PE, ABS and 15 acoustic pipes up to 110 mm diameter with or without sound decoupling up to 9 mm thick.

#### Easy installation.



Download the app:



<http://fsselector.hilti.com>

Watch the video:



[hilti.co.uk/cfs-cel](http://hilti.co.uk/cfs-cel)

**Hilti. Outperform. Outlast.**

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**HILTI**

Hilti CFS-C EL Firestop Collar Endless

**SIMPLE.  
FLEXIBLE.  
SAFE.**

The new Hilti CFS-C EL firestop collar endless is a flexible solution designed and approved for a wide range of pipe firestopping applications. It has been tested and approved for use not only with a broad range of pipe types in different diameters but also for complex configurations commonly found in every firestop project. The contents of one box are sufficient for 12 pipes 50 mm in diameter or 6 pipes 110 mm in diameter.



Hilti CFS-C EL Firestop Collar Endless

**THE NEW FIRESTOP SOLUTION  
FOR PLASTIC PIPES.**

Hilti. Outperform. Outlast.

**Hilti CFS-C EL firestop collar endless.**  
The new firestop solution for plastic pipes.

#### Broad approval range.



**Approved for use with:**  
Pipe diameters 32-160 mm including PVC, PP, PP-R, PE, ABS and 15 PP acoustic triple-layer pipes with and without sound decoupling up to 9 mm thick.



**Approved for use on:**  
Flexible and rigid walls (from 100 mm)  
Rigid floors (from 150 mm)  
Shaft walls (from 50 mm)  
Coated board systems (from 100 mm)



**Approved fastening systems**  
Hooks grouted into mortar (only in rigid base materials)  
HUS-P6 and HUS-H6 Screw anchors  
HTB Toggler bolts  
HHD Cavity anchors  
Threaded rods

#### Suitable for all configurations.



**Shaft walls**  
CFS-C EL firestop collar endless can be installed even where access is only from one side.



**Zero distances**  
CFS-C EL firestop collar endless can be used to firestop systems adjacent to other plastic or metal pipes.



**Pipe couplers**  
CFS-C EL firestop collar endless can also be used to firestop pipe couplings for acoustic pipes.

# Annular gap fillers

Shaft wall		Gypsum	CFS-S ACR	CFS-FIL
	Straight pipes			■
		Gypsum	CFS-S ACR	CFS-FIL
Drywall	Straight pipes	■	■	
	87 degree elbow	■	■	
	2x45 degree elbow	■	■	
	Inclined	■	■	
	Coupler			■
	Zero distance to CFS-B	■	■	
	Zero distance to MW	■	■	
	CFS-C EL in CFS-CT B	■	■	
		Mortar	CFS-S ACR	CFS-FIL
Rigid walls / floors	Straight pipes	■	■	
	87 degree elbow	■	■	
	2x45 degree elbow	■	■	
	Inclined	■	■	
	Coupler			■
	Zero distance to CFS-B	■	■	
	Zero distance to MW	■	■	
	Zero distance to CFS-C EL	■	■	
	CFS-C EL in CFS-CT B	■	■	
	Pipes on walls / in corners	■	■	
Use of leftovers	■	■		
Hooks in mortar	■			

# Number of hooks + length of the collar

Pipe group	Number of hooks	Pipe diameter (mm)	Insulation thickness				
			0 mm	4 mm	9 mm	13 mm	25 mm
			CFS-C EL (mm)	CFS-C EL (mm)	CFS-C EL (mm)	CFS-C EL (mm)	CFS-C EL (mm)
Diameter ≤ 110 mm Pipe group 1 - single collar	2 short	16	130	130	155	180	260
		32	150	175	205	230	310
		40	175	200	230	260	335
	3 short	50	205	230	265		
		56	225	250	285		
63		250	275	305			
75		285	310	340			
125 mm ≤ Ø ≤ 160 mm Pipe group 2 - two collars	2 short	90	335	360	390		
		110	395	420	450		
	4 long	125	445	470	500		
		135	475	500	530		
		140	490	515	545		
		160	555	580	610		

The length of the collar is valid only for orthogonal pipe penetrations (for other applications refer to ETA 14/0085).

CFS-C EL				32 ≤ Ø ≤ 110																	Ø 125-160							
Application	Pipe material	Pipe standard	Base material	Straight pipes	Straight pipes with Armaflex insulation	Pipes in mortar	Use of leftovers	Inclined from 45 to 90 degrees	Inclined from 45 to 90 degrees with Armaflex insulation	87 degree elbow	2x45 degree elbow	Pipe couplers	Pipe junction/manifold	Pipe on wall	Pipe in corner	Zero distance between CFS-C EL	Zero distance to MW	Zero distance to CFS-B	Multiple pipes	CFS-C EL in CFS-CT B	Shaft walls	Straight pipes	Hooks in mortar	Use of leftovers	Zero distance between CFS-C EL	Pipe couplers		
				U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U	U/U
Waste water	PE	EN 1519-1 EN 12666-1 EN 12201-2	Flexible wall	120 U/U				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U	90 U/U						
			Rigid wall	120 U/U	120 U/U	120 U/U	120 U/U	90 U/U	120 U/U							120 U/U	120 U/U	90 U/U	90 U/U	90 U/U	120 U/U	90 U/U		120 U/U	120 U/U	90 U/U	120 U/U	
			Rigid floor	120 U/U	120 U/U	120 U/U	120 U/U	90 U/U	90 U/U						120 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U	120 U/U	90 U/U		120 U/U	120 U/U	120 U/U	120 U/U	120 U/U
	PE Geberit silent DB	-	Flexible wall	120 U/U				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U	90 U/U						
			Rigid wall	120 U/U		120 U/U	120 U/U	90 U/U				120 U/U	30 U/U			120 U/U	120 U/U	90 U/U	90 U/U	90 U/U		90 U/U		120 U/U	120 U/U	90 U/U	120 U/U	
			Rigid floor	120 U/U		120 U/U	120 U/U	90 U/U				120 U/U	120 U/U	120 U/U	120 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		120 U/U	120 U/U	120 U/U	120 U/U	120 U/U
	PP	EN 1451-1 DIN 8077/78	Flexible wall	120 U/U 120 U/C				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U							
			Rigid wall	120 U/U 120 U/C		120 U/U	120 U/U	90 U/U								120 U/U	120 U/U	90 U/U	90 U/U	90 U/U		90 U/U		120 U/U 30 U/U 120 U/C	120 U/U	90 U/U	120 U/U	
			Rigid floor	120 U/U 90 U/U 120 U/C		120 U/U	120 U/U	90 U/U							120 U/U 90 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		120 U/U	120 U/U	120 U/U	120 U/U	120 U/U
	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	-	Flexible wall	90 U/U				90 U/U			90 U/U	60 U/U	120 U/U 60 U/U				90 U/U	90 U/U	90 U/U		90 U/U	90 U/U						
			Rigid wall	120 U/U		120 U/U	120 U/U	90 U/U				90 U/U	120 U/U	120 U/U	120 U/U	120 U/U	120 U/U	90 U/U	90 U/U	90 U/U		90 U/U		120 U/U	120 U/U	90 U/U	90 U/U	
			Rigid floor	120 U/U		120 U/U	120 U/U	90 U/U				120 U/U	120 U/U	120 U/U	120 U/U	120 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		120 U/U	120 U/U	120 U/U	120 U/U
PVC	EN 1452-1 EN 1329-1 EN 1453-1 EN 1566-1 EN ISO 15493	Flexible wall	120 U/U				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U	90 U/U							
		Rigid wall	120 U/U		120 U/U	120 U/U	90 U/U								120 U/U	120 U/U	90 U/U	90 U/U	90 U/U		90 U/U		120 U/U	120 U/U	90 U/U	120 U/U		
		Rigid floor	120 U/U		120 U/U	120 U/U	90 U/U							120 U/U 90 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		90 U/U	120 U/U 120 U/C			90 U/U	
Pneumatic dispatch	PVC	DIN 6660	Flexible wall	90 U/U				90 U/U																				
			Rigid wall	90 U/U				90 U/U																	90 U/U			
			Rigid floor	120 U/U				120 U/U																	120 U/U			
Industry	ABS SAN+PVC	EN 15494 EN 12201-2 DIN 8074/75	Flexible wall	120 U/C 90 U/C				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U	90 U/U						
			Rigid wall	120 U/C		120 U/U	120 U/U	90 U/U								120 U/U	120 U/U	90 U/U	90 U/U	90 U/U		90 U/U		120 U/U	120 U/U	90 U/U	120 U/U	
			Rigid floor	120 U/U		120 U/U	120 U/U	90 U/U							120 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		90 U/U	120 U/U 120 U/C			120 U/U 90 U/U
Various	ABS SAN+PVC	EN 1455-1 EN ISO 15403 EN 1565-1	Flexible wall	90 U/U 60 U/U				90 U/U									90 U/U	90 U/U	90 U/U		90 U/U	90 U/U			120 U/U			
			Rigid wall	90 U/U 60 U/U				90 U/U										90 U/U	90 U/U	90 U/U		90 U/U		90 U/U	120 U/U 120 U/C	120 U/U	90 U/U	
			Rigid floor	120 U/U		120 U/U	120 U/U	90 U/U							120 U/U 30 U/U	120 U/U	90 U/U	120 U/U	120 U/U	90 U/U		90 U/U		120 U/U	120 U/U	120 U/U	120 U/U	120 U/U
Potable water / heating	PE-X (Rehau Rautitan flex, Hewing PE-HDXc)	EN 15875	Flexible wall		120 U/C																							
			Rigid wall		120 U/C																					120 U/C		
			Rigid floor		120 U/C																						120 U/C	
Potable water	PP-R (Auqatherm green pipe)	EN 15874	Flexible wall		120 U/C																							
			Rigid wall		120 U/C																						120 U/C	
			Rigid floor		120 U/C																						120 U/C	

Annular gap filled with CFS-FIL. Pipe end configuration during fire test (inside furnace / outside furnace): U/C = uncapped / capped; U/U = uncapped / uncapped

MW = mineral wool AF = elastomeric thermal insulation