







Sealmaster FireCollar

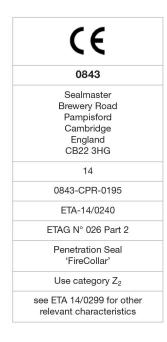
Technical Data













Technical Data Sealmaster FireCollar

Product Description

Sealmaster FireCollars provide a robust, versatile and economic fire seal to provide fire resistance in compartment walls (including gypsum stud walls) and floors where openings in these construction elements are formed to accommodate plastic service pipes. In a fire attack situation, the intumescent lining within the collar expands to form a robust char barrier which prevents the passage of flames and hot gases through voids created by the melting plastic pipe and in addition restricts temperature rise on the non-fire side of the wall or floor.

Sealmaster FireCollars are made from corrosion resistant powder coated steel and lined with a water resistant polymer based intumescent material. Sealmaster FireCollars are supplied in 5 standard sizes, but have been tested 'oversize' on smaller diameter plastic pipes thereby reducing the need to use more costly non-standard sizes. Sealmaster FireCollars are particularly suitable when pipes are fitted in tight corners. The full scope of use is dependent on certification - please refer to Fire Performance.

Physical Properties

Composition:	Powder coated steel shell with intumescent liner		
Intumescent activation temperature:	Approximately 180° C		
Intumescent expansion pressure:	193.5 kPa mean peak pressure for 1.82mm thick material in a 8.27mm gap		
Intumescent expansion volume ratio:	11.45 mean ratio at 2.84 kPa		
Service temperature:	-15°C - +75°C		

Sealmaster FireCollars contain no hazardous materials and are asbestos free. This data sheet should be read in conjunction with the MSDS for this product. Installation instructions are available upon request.

Dimensional Data

Size To Suit Pipe OD		Height	Shell O/D*
55mm	32-55mm	50mm	72mm
82mm	56-82mm	50mm	103mm
110mm	83-110mm	50mm	135mm
125mm	111-125mm	60mm	160mm
160mm	126-160mm	60mm	203mm

^{*} approx. dimension

Fire Performance

Scope of use of CE marked collars in accordance with ETAG 026-2.

Refer to ETA 14/0240 for further details – available from Sealmaster.

Construction	Collar Size	Product Code	Pipe Wall Thickness	Pipe Material	Integrity & Insulation
Steel/Timber Stud Drywalls - min. 100 mm thick - both faces min. 2N° 12.5 mm boards	55mm 82mm 110mm 125mm 160mm	FCL055CE FCL082CE FCL110CE FCL125CE FCL160CE	2.0-3.7mm 3.0-3.5mm 2.2-8.1mm 3.7-9.2mm 3.2-11.8mm	uPVC	120 mins
Concrete/Masonry Walls - min. 100 mm thick - min. density 650 kg/m³	55mm 82mm 110mm 125mm 160mm	FCL055CE FCL082CE FCL110CE FCL125CE FCL160CE	2.0-3.7mm 3.0-3.5mm 2.2-8.1mm 3.7-9.2mm 3.2-11.8mm	uPVC	120 mins
Concrete Floors - min. 150 mm thick - min. density 650 kg/m ³ - surface mounted	55mm	FCL055CE	2.5-3.7mm	uPVC	240 mins
	82mm	FCL082CE	3.0-3.5mm		180 mins
	110mm	FCL110CE	3.8mm	PP	240 mins
			2.2-8.1mm 5.3mm	uPVC Composite	180 mins
	125mm	FCL125CE	3.7-9.2mm	uPVC	120 mins
	160mm	FCL160CE	10mm	PE	60 mins
			3.2-11.8mm	uPVC	180 mins

