

Sealmaster[®] of Cambridge

Sealmaster FireCollar

Technical Data



 UL INTERNATIONAL (UK) LTD Woreath House, Building C, The Outway, Old Portsmouth Road, Guildford GU3 1LR, United Kingdom. designated according to Article 20 of the Regulation (EU) No 305/2011 and member of ETA (European Organisation for Technical Assessment, www.eta.eu)	Member of www.eta.eu
European Technical Assessment	
ETA 14/0240 of 24/07/2014	
Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: UL International (UK) Ltd	
Trade name of the construction product	FireCollar
	(FireCollar 55 / FireCollar 82 / FireCollar 110 / FireCollar 125 / FireCollar 150)
Product family to which the construction product belongs	Fire Stopping and Sealing Product: • Penetration Seals
Manufacturer	Sealmaster Brewery Road Pampisford Cambridge England CB22 3HG
Manufacturing plant(s)	A/006
This European Technical Assessment contains	9 pages including 1 Annex which forms an integral part of this assessment.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	ETAG 026-2, edition 2011, used as European Assessment Document (EAD).
<small>Translations of this European Technical Assessment to other languages shall fully correspond to the original issued document and should be identified as such. Communication of this European Technical Assessment, including its transmission by electronic means, shall be in full. However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.</small>	
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EC CERTIFICATE	
Notified Body No. 0843 CPR Notified Body, UL International (UK) Ltd, Woreath House, The Outway, Old Portsmouth Road, Guildford, Surrey, GU3 1LR, United Kingdom	
Certificate of constancy of performance 0843-CPR-0195	
In compliance with the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:	
FireCollar Penetration Seal Classified for use in flexible & solid walls and solid floors	
A pipe (socket device used to form penetration seals where combustible pipes penetrate walls and floors. The FireCollar is supplied with rhinoceros liner complete with powder coated metal shell, to be stamped around the service and screw fixed back to the supporting element. The FireCollar has two half shells with side together fixing.	
produced by and produced in the manufacturing plant	
Sealmaster Brewery Road Pampisford Cambridge England CB22 3HG	
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the ETA:	
ETA 14/0240	
under system AVCP 1 for the performance set out in this certificate are applied and that	
FireCollar fulfils all the prescribed requirements for these performances.	
This certificate was first issued on 16th September 2014 and will remain valid as long as the ETA remains valid and the manufacturing conditions in the plant or the factory production control shall not be modified significantly, unless suspended or withdrawn by the product certification body.	
Certificate issue date: 16th September 2014	 Karl Hasland Quality Engineering Manager UL International (UK) Ltd
<small>UL International (UK) Limited Woreath House, The Outway, Old Portsmouth Road, Guildford, Surrey, GU3 1LR, United Kingdom</small>	

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Sealmaster Brewery Road Pampisford Cambridge England CB22 3HG	
14	
0843-CPR-0195	
ETA-14/0240	
ETAG N° 026 Part 2	
Penetration Seal 'FireCollar'	
Use category Z ₂	
see ETA 14/0299 for other relevant characteristics	



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.

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	FCL055CE	2.0-3.7mm	uPVC	120 mins
	82mm	FCL082CE	3.0-3.5mm		
	110mm	FCL110CE	2.2-8.1mm		
	125mm	FCL125CE	3.7-9.2mm		
	160mm	FCL160CE	3.2-11.8mm		
Concrete/Masonry Walls - min. 100 mm thick - min. density 650 kg/m³	55mm	FCL055CE	2.0-3.7mm	uPVC	120 mins
	82mm	FCL082CE	3.0-3.5mm		
	110mm	FCL110CE	2.2-8.1mm		
	125mm	FCL125CE	3.7-9.2mm		
	160mm	FCL160CE	3.2-11.8mm		
Concrete Floors - min. 150 mm thick - min. density 650 kg/m³ - 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

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

