



16<sup>th</sup> October 2018

To Whom it may Concern

**Protecta FR Collars fitted Over-size**

Polyseam Ltd confirms that Protecta FR Collars have been tested\* over-sized with smaller pipes inside. 50mm pipe in a 160mm collar at an angle of 45°, allowing for pipes at angles from 90 degrees to 45 degrees from the plane of the floor/wall.

Protecta FR Collars are oversized to allow for the natural gradient of pipework for flow purposes and inconsistencies of pipe installation.

Polyseam Ltd confirms that Protecta FR Collars may be used over-size with the following qualifications:

1. Max fire integrity and thermal insulation rating of 120mins (i.e. any 180min or 240min systems must be reduced to a max 120mins).
2. Max angle of pipe 45°
3. Max collar size 160mm.

In gypsum walls, gaps between the pipe and the construction below 8mm must have a bead of Protecta FR Acrylic to cover the opening, and for gaps 8mm or above, the seal must be plugged with FR Acrylic to the full depth of the gypsum boards, making up the tested fire resistant wall. For example, an annular gap in a tested wall construction composed of a single 13mm thick board and timber studs, would need to be filled to 13mm depth, the total depth of the board.

In masonry/concrete walls, gaps between the pipe and the construction below 8mm must have a bead of Protecta FR Acrylic to cover the opening, and for gaps 8mm or above, the seal must be plugged with 20mm deep FR Acrylic on 20mm deep backing of stone wool (minimum density 33kg/m3).

In floors, gaps between the pipe and the construction below 10mm must have 20mm deep stone wool to plug the opening, and for gaps 10mm or above, the seal must be plugged with 10mm deep FR Acrylic on 40mm deep backing of stone wool (minimum density 33kg/m3).

Polyseam Ltd confirms that, subject to the above restrictions, all fire integrity and thermal insulation ratings for Protecta FR Collar systems will be maintained should an over-sized collar of any dimension be required to accommodate angled pipes.

Signed

\*Tested by UL International (UK) Ltd under EN1366 - Test# A.2.2.1, ETA 18/0854  
Assessed to AS1530.4 by Warringtonfire Australia - Report# 51478400.B.2

Duncan Alabaster

Technical Manager

T: +44 (0) 1484 421036  
F: +44 (0) 1484 500445  
E: post.uk@polyseam.com  
www.polyseam.com

Polyseam Ltd.  
15 St Andrews Road  
Huddersfield  
West Yorkshire  
HD1 6SB, UK.

**Intelligent Chemistry.**

Registered in England No: 2839491

with compliments



# Polyseam®

T: +44 (0) 1484 421036  
F: +44 (0) 1484 500445  
E: [post.uk@polyseam.com](mailto:post.uk@polyseam.com)  
[www.polyseam.com](http://www.polyseam.com)

Polyseam Ltd.  
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