Allproof Low Profile Fire Collar
Plastic Pipe through a Plasterboard Wall
2 x 13mm or 2 x 16mm Fire Board
See pg 2 for details

BRANZ Appraisal 1008
Technical Manual - Plumbing Pg 23
AS1530.4-2014   AS4072.1-2005

BRANZ

System ID# FC742

Products	Allproof Low-Profile Fire Collar
Application	Fire stopping of plastic pipe in double layer plasterboard wall
Construction	Minimum wall thickness 116mm with double layer 13mm or 16mm board each side

Fire Classification:

See pages 2 for details of pipe types, sizes and FRR ratings for:

PEX up to 25mm
PVC up to 100mm
PEX/AL/PEX up to 20mm

All systems FRR -/120/120

See also FC737 and FC738 single layer systems which may all be used on double layer walls, covering the following pipes;

PVC up to 150mm diam
PVC with socket up to 100mm diam
HDPE up to 110mm diam Ploybute up to 28mm diam
PEX up to 25mm diam
Ruapiano PP-MD up to 100mm diam
D Blue PP-MD up to 110mm diam PP-R up to 110mm diam
PEX/AL/PEX up to 20mm diam
PEX/AL/PE up to 20mm diam
PE-RT/AL/PE-RT up to 40mm diam PB up to 20mm diam

INSTALLATION INSTRUCTIONS:

1. Ensure substrate around the service is flat and free from obstructions.
2. Seal the annular space between the plasterboard and the pipe with Allproof MAS310 fire sealant to the depth of the plasterboard.
3. Open pipe collar and position around the service.
4. Slide tab through slot in pipe collar and fold back 180° to secure.
5. Secure collar using 10G laminating or chipboard screws (see Pg 2) fixed directly into the plasterboard. Do not use fixings which rely on plastic or nylon components for grip.

2x13/16MM PLASTER BOARD — FIRE RATED SEALANT — PIPE COLLAR — PLASTIC PIPE — PIPE COLLAR — 10G X 38MM LAMINATING/ CHIPBOARD SCREWS
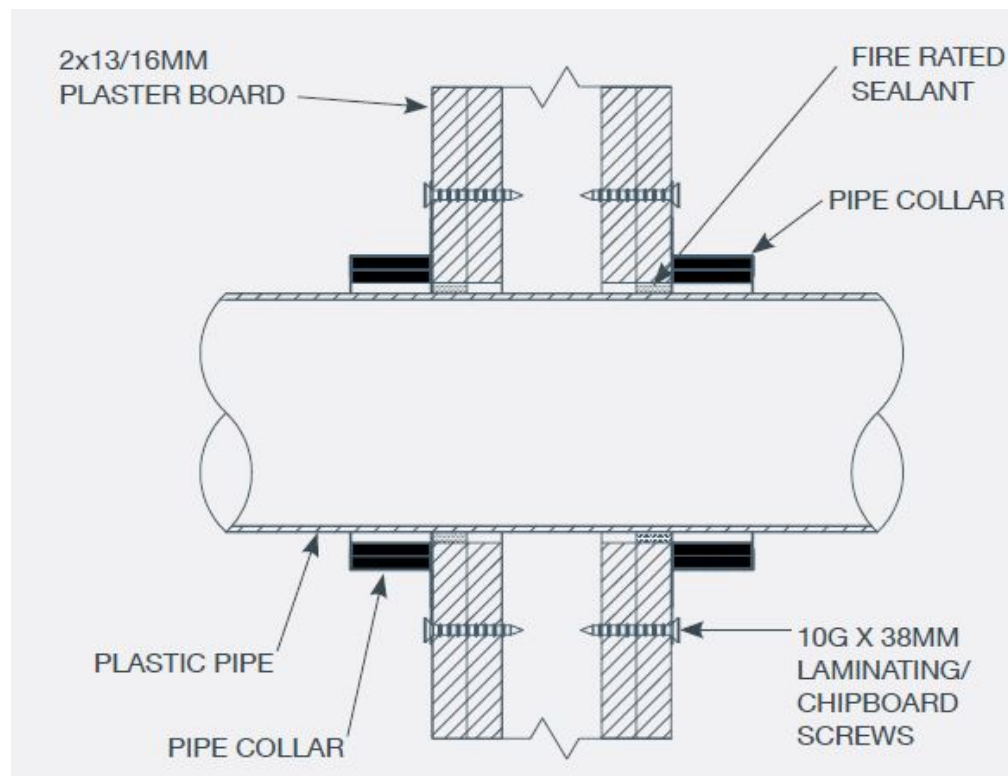
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ALLPROOF
INDUSTRIES

Allproof Industries Ltd
17 Bay Park Place
Beach Haven, AK 0626

Sheet size: A4	Drawn date & no: 28/5/25
Scale: NTS	Drawn by: G.P

2 X 13MM PLASTERBOARD WALL TEST RESULTS:

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	PLASTERBOARD WALL FRL*	REPORT NUMBER
PEX PIPE					
16	2.6	ALLFC25	19	-/120/120	44185300.1
20	2.9	ALLFC25	25	-/120/120	44185300.1
25	3.7	ALLFC25	28	-/120/120	44185300.1

Tested using a 64mm wide steel stud with a single layer of 2 x 13mm fire rated plasterboard on each side of the frame. A total wall thickness of 116mm. Fire collars are fixed using 2 x 10G x 38mm laminating or chipboard screws directly into plasterboard - not fixed into framing or studs in wall. Fire rated sealant is applied in the space between the pipe and plasterboard on both the exposed and unexposed face.

2 X 16MM PLASTERBOARD WALL TEST RESULTS:

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	PLASTERBOARD WALL FRL*	REPORT NUMBER
PVC PLASTIC PIPE					
40	2.0	ALLFC40	47	-/120/120	5680
50	2.2	ALLFC50	57	-/120/120	5680
65	2.7	ALLFC65	72	-/120/120	5680
80	2.9	ALLFC80	87	-/120/120	5680
100	3.2	ALLFC100	112	-/120/120	5680
PEX PIPE					
16	2.6	ALLFC25	19	-/120/120	5680
OTHER PLASTIC PIPE					
20 PEX/AL/PEX	3.1	ALLFC25	25	-/120/120	5680

Tested using a 64mm wide steel stud with a single layer of 2 x 16mm fire rated plasterboard on each side of the frame. A total wall thickness of 128mm. Fire collars are fixed using 10G x 40mm laminating or chipboard screws directly into plasterboard - not fixed into framing or studs in wall. Fire rated sealant is applied in the space between the pipe and plasterboard on both the exposed and unexposed face.

2 X 13/16MM PLASTERBOARD INSTALLATION DETAILS: