

OCTOBER 2016

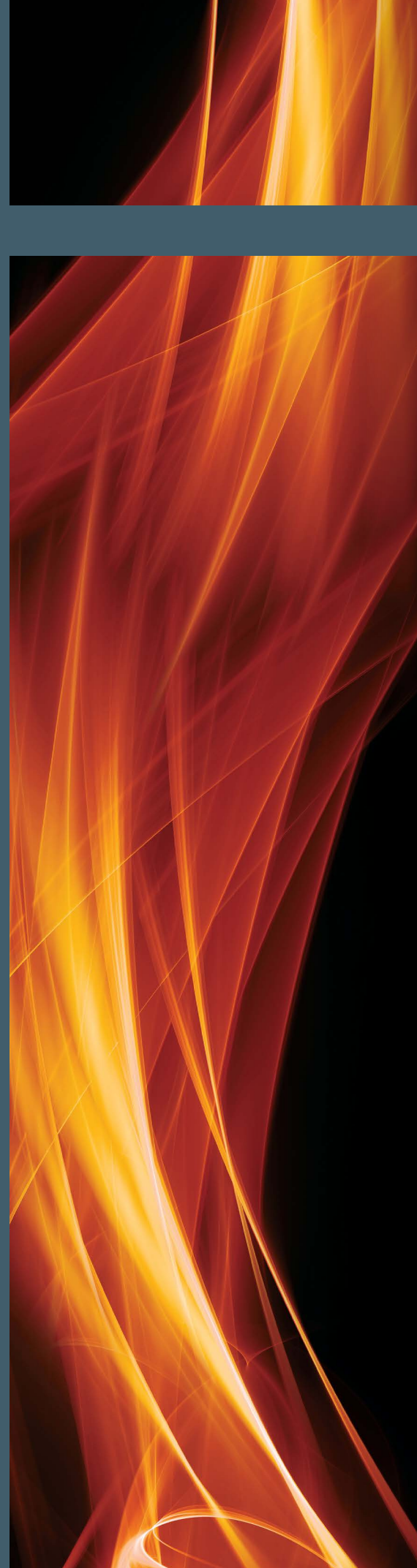
PASSIVE FIRE PROTECTION PRODUCTS

ALLPROOF
INDUSTRIES

www.allproof.com

CONTENTS

FIRE TESTING	1
ADVANCED INTUMESCENT	2
ALLPROOF INTUMESCENT TECHNOLOGY:	2
LOW PROFILE PIPE COLLARS	3
CONCRETE SLAB TEST RESULTS:	4
FLOOR WASTE TEST RESULTS:	5
19MM PLASTERBOARD WALL TEST RESULTS:	6
13MM PLASTERBOARD WALL TEST RESULTS:	7
2 X 16MM PLASTERBOARD WALL TEST RESULTS:	8
2 X 13MM PLASTERBOARD WALL TEST RESULTS:	8
PIPE COLLAR DIMENSIONS	9
INSTALLATION INSTRUCTIONS:	9
PIPE WRAPS	10
INSTALLATION INSTRUCTIONS:	10
PIPE WRAP TEST RESULTS:	11
FIRE PLATES	12
INSTALLATION INSTRUCTIONS:	12
CONCRETE FLOOR TEST RESULTS:	12
CAST-IN COLLARS	13
INSTALLATION INSTRUCTIONS:	13
CAST IN COLLAR TEST RESULTS:	14
LOW CAST-IN STACK COLLARS	15
INSTALLATION INSTRUCTIONS:	15
LOW CAST-IN COLLAR TEST RESULTS:	15
DROP IN FIRE COLLARS	16
INSTALLATION INSTRUCTIONS:	17
DROP IN FIRE COLLAR TEST RESULTS:	17
FIRE BANDS	18
INSTALLATION INSTRUCTIONS:	18
PLASTERBOARD WALL TEST RESULTS:	19



WHAT IS THE BEST SOLUTION FOR ME?

Installation

Floor

Wall

Pre Pour



Post Pour



Concrete



Plasterboard



This document features current test results at time of print.
Contact Allproof for further information and the latest test results.

FIRE TESTING

Allproof industries has an extensive testing programme with independent IANZ accredited fire testing laboratories and is consistently working with Industry to provide exceptional products that can help overcome issues regularly faced on site.

The passive fire protection products offered from Allproof are designed to contain a fire in the compartment of origin, thus limiting the spread of fire and smoke for a limited period of time. The fire ratings and installation details are illustrated in this document.

All products are tested to AS1530.4 - 2005 and AS4072.1 - 2005.

The passive fire protection products designed to protect service penetrations are tested using an open/closed format. That is, the pipe is capped on the fire side during the test and is open on the non fire side. When fire testing plastic pipes, 2m of pipe projects out of the supporting construction (wall or floor) and is deemed to be representative of general pipe systems - soil, waste and vent, water supply and reticulation.



ADVANCED INTUMESCENT

At the core of the Allproof passive fire protection product range is the advanced intumescent technology. This enables Allproof to offer products with performance and design advantages for engineers and installers of passive fire protection products. Allproof's intumescent material expands when exposed to heat and as its volume increases with significant expansion pressure, it produces a stable char. The intumescent char formed is a poor conductor of heat, retarding heat transfer and retaining the integrity and insulation of service penetrations through otherwise fire-resistance rated walls or floors.

ALLPROOF INTUMESCENT TECHNOLOGY:

- Flexible rubber-like composition allows easy handling
- Graphite based
- Moisture resistant
- Silver/grey in colour
- Excellent expansion pressure and volume
- Material stable after expansion



Activated Allproof Intumescent during fire testing in a plasterboard wall.

LOW PROFILE PIPE COLLARS

The low profile pipe collars are designed to be installed in concrete, brick or masonry fire rated walls and floors, and fire rated plasterboard walls. The Allproof pipe collars consist of intumescent material encased in a steel surround with fixing tabs. The advanced intumescent technology allows Allproof to achieve a very low profile height of only 27mm for the 25-80mm pipe collars.

When fire occurs the intumescent material expands against the steel surround as the flammable plastic pipe running through the collar melts and burns away. The steel casing acts as an excellent heat sync ensuring fast activation of the intumescent, forming a stable fire resistant plug, maintaining both fire integrity and insulation.

Pipe collars are designed to be exposed in a wall or floor application (i.e. face fixed). The collars should always be fixed to the underneath of the concrete floor. In wall situations one collar should be used on each exposed side of the fire rated wall.



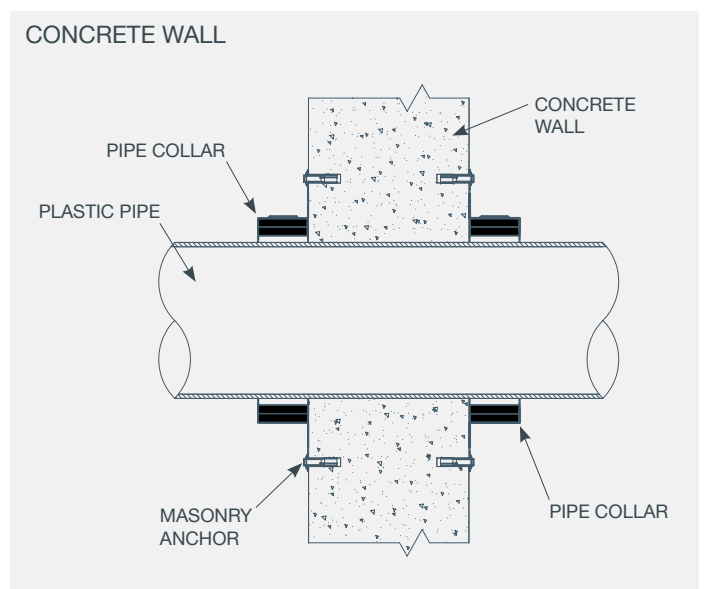
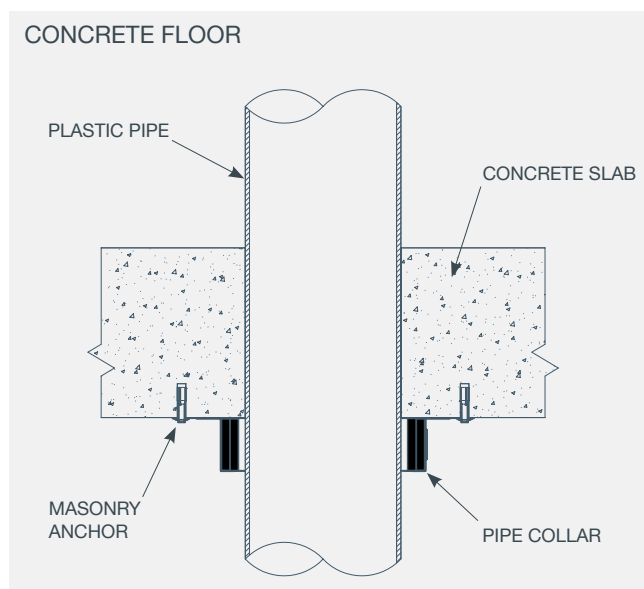
SUITABLE FOR FITTING TO:

- Concrete, masonry, brick walls
- Plasterboard walls
- Concrete floors
- Hollow core construction floors

FEATURES:

- Totally unaffected by water
- Unique low profile design (25-80mm)
- Tested on PVC socket connections for floor stack installations (40-100mm)
- Stainless or galvanized steel case
- Retro fitting - easy install slide tab
- For use on various plastic pipes

CONCRETE INSTALLATION DETAILS:



CONCRETE SLAB TEST RESULTS:

All testing on 150mm thick concrete floor/wall slab unless otherwise noted.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	FLOOR FRL	FTC#	WALL FRL	FTC#
PVC PLASTIC PIPE							
20	1.8	FC25	28	-/120/120*	650		
40	2.0	FC40	47	-/120/120	644	-/120/120	716
50	2.2	FC50	57	-/120/120	644	-/120/120	717
65	2.7	FC65	72	-/120/120	609	-/180/180	610
80	2.9	FC80	87	-/120/120	615	-/180/180	610
100	3.2	FC100	112	-/120/120	644	-/120/120	615
150	4.5	FC150	162	-/120/120	609	-/120/120	717
HDPE PLASTIC PIPE							
50	3.5	FC50	52	-/120/120	606	-/120/120	612
75	4.0	FC80	77	-/120/120	606	-/120/120	614
110	5.2	FC100	112	-/120/120	606	-/120/120	614
150	7.0	FC150	162	-/120/120	609		
PP-R PLASTIC PIPE (SDR 7.4)							
20	2.2	FC25	28	-/120/120*	650		
40	5.5	FC40	42	-/120/120	608	-/120/120	614
75	10.3	FC80	77	-/120/120	608		
110	15.1	FC100	112	-/90/90	608		
RAUPIANO PP-MD							
40	1.8	FC40	42	-/120/120*	639		
50	1.8	FC50	52	-/120/120*	639		
75	1.9	FC80	77	-/120/120*	639		
110	2.7	FC100	112	-/120/120*	639		
D BLUE PP-MD							
40	1.8	FC40	42	-/120/120*	726		
50	1.8	FC50	52	-/240/240*	692		
75	2.3	FC80	77	-/120/120	726		
110	3.4	FC100	112	-/240/240*	692		
OTHER PLASTIC PIPE							
16mm PEX	2.6	FC25	28	-/120/120*	650		
25mm PEX	3.7	FC25	28	-/120/120*	650		
16mm PB	1.7	FC25	28	-/120/120*	650		
28mm PB	2.8	FC25	32	-/120/120*	650		
25mm PEX/AL/PEX	2.8	FC25	28	-/120/120*	650		

* Tested on a 120mm thick concrete floor slab.

Fixing: Collars tested using M6x25 masonry anchors or M6x4.5 DBZ Wedge Anchors.

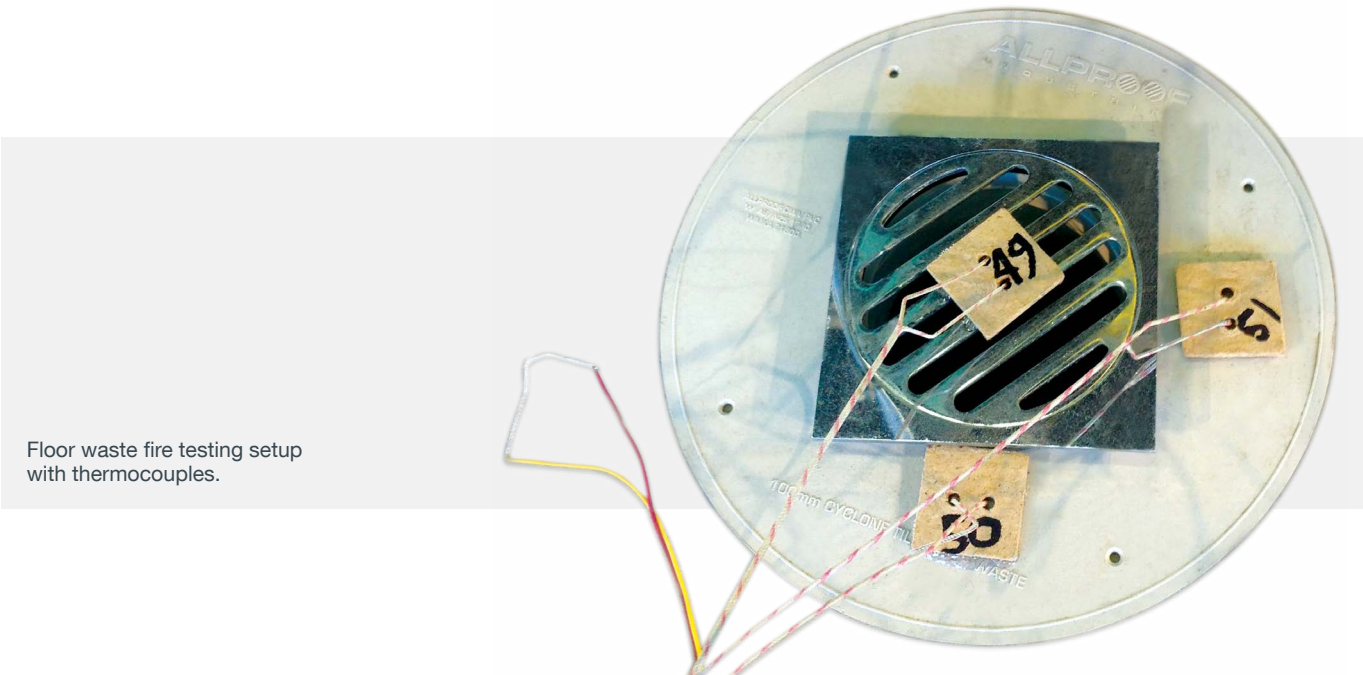
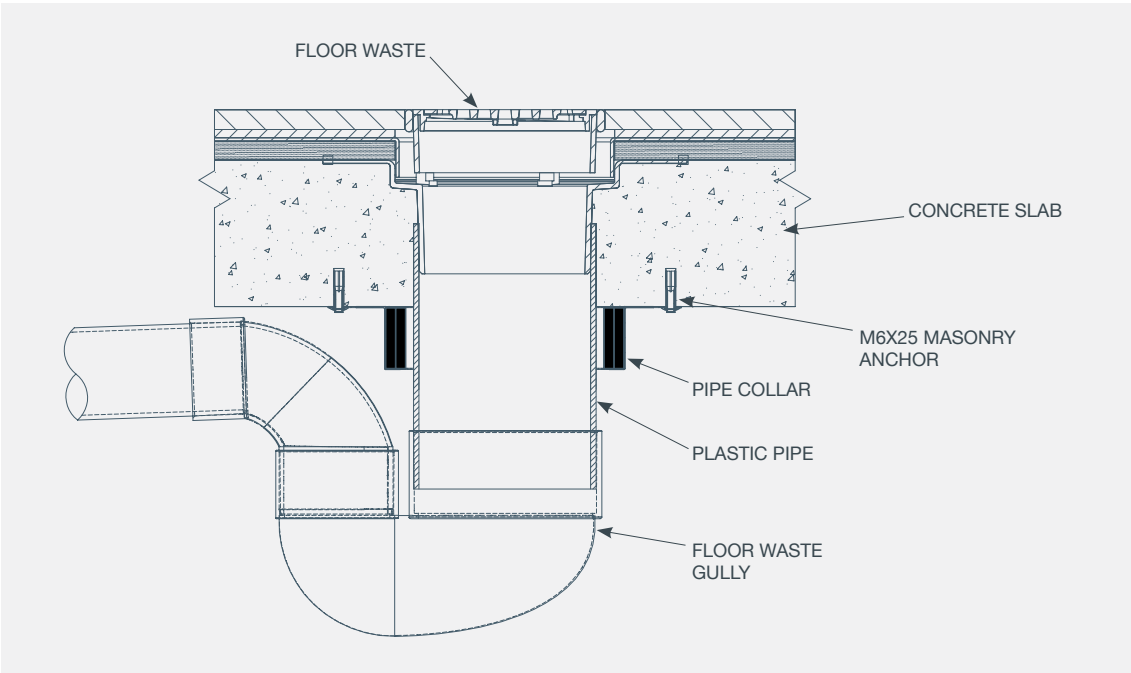
FLOOR WASTE TEST RESULTS:

All testing on 150mm thick concrete floor/wall slab unless otherwise noted.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	FLOOR FRL	FTC#
PVC PLASTIC PIPE					
40	2.0	FC40	47	-/120/120	608
50	2.2	FC50	57	-/120/120*	650
80	2.9	FC80	87	-/120/120	606
100	3.2	FC100	112	-/120/120*	650

* Tested on a 120mm thick concrete floor slab.

FLOOR WASTE INSTALLATION DETAILS:

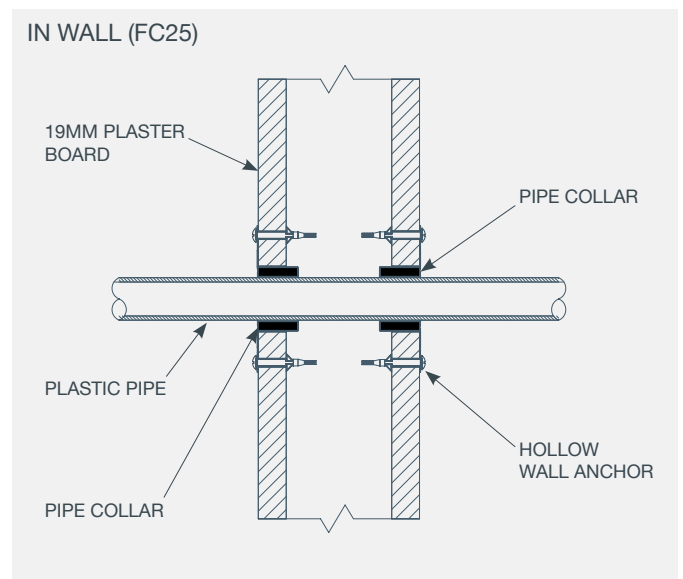
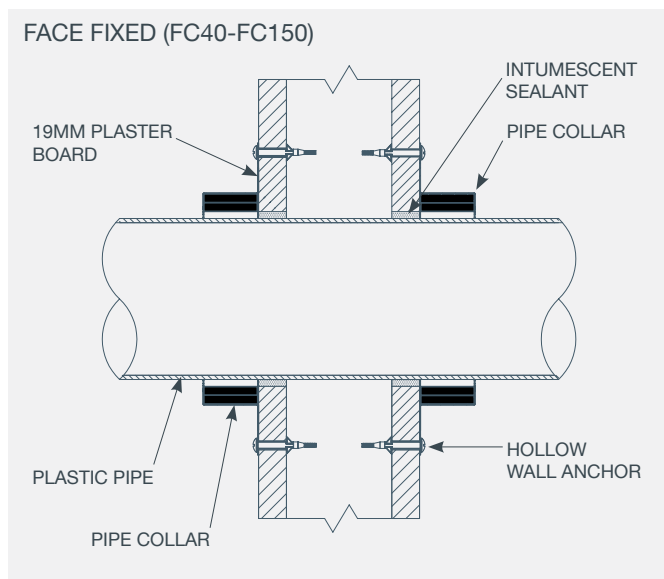


19MM PLASTERBOARD WALL TEST RESULTS:

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	PLASTERBOARD WALL FRL ***	FTC#
PVC PLASTIC PIPE					
40	2.0	FC40	47	-/120/90	607
50	2.2	FC50	57	-/120/90	615
65	2.7	FC65	72	-/120/90	611
80	2.9	FC80	87	-/120/90	607
100	3.2	FC100	112	-/120/90	612
150	4.5	FC150	162	-/90/60	621
HDPE PLASTIC PIPE					
50	3.5	FC50	52	-/120/120	612
75	4.4	FC80	77	-/120/90	611
110	5.2	FC100	112	-/120/90	612
PP-R PLASTIC PIPE (SDR 7.4)					
25	3.7	FC25	45	-/120/90	645
40	5.5	FC40	42	-/120/90	611
50	6.9	FC50	52	-/120/90	611
63	8.6	FC65	65	-/90/90	613
75	10.3	FC80	77	-/90/30	613
110	15.1	FC100	112	-/30/30	613
OTHER PLASTIC PIPE					
25mm PEX	3.7	FC25	45	-/120/90	645
22mm PBute	2.2	FC25	45	-/120/90	645

*** Tested using a 92mm wide steel stud with a single layer of 19mm fire rated plasterboard on each side of the frame. A total wall thickness of 130mm. Pipe collars are fixed using hollow wall anchors directly into plasterboard - not fixed into framing or studs in wall. 25mm pipe collars tested in the wall penetration not exposed outside of wall.

19MM PLASTERBOARD INSTALLATION DETAILS:



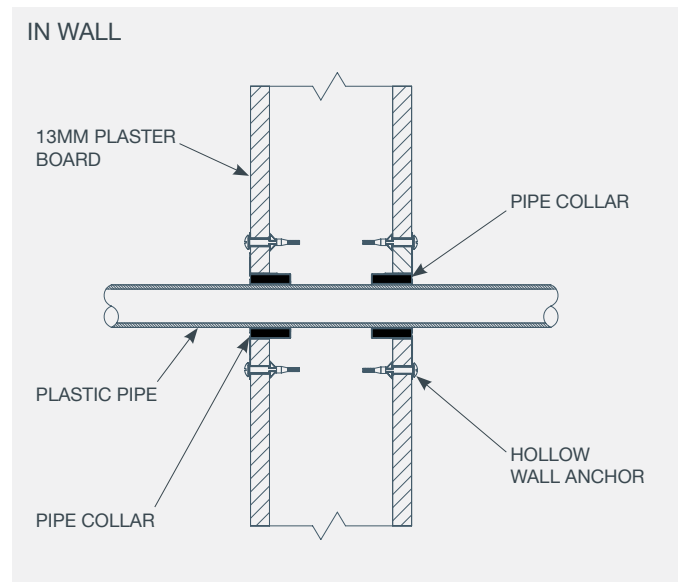
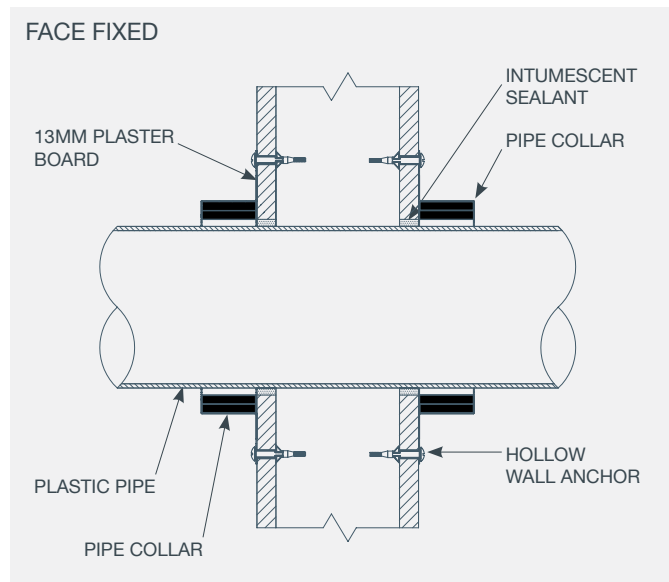
13MM PLASTERBOARD WALL TEST RESULTS:

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	PLASTERBOARD WALL FRL*	FTC#
PVC PLASTIC PIPE					
40	2.0	FC40	47	-/60/45	693
50	2.2	FC50	57	-/60/60	693
65	2.7	FC65	72	-/60/60	729
80	2.9	FC80	87	-/60/60	693
100	3.2	FC100	112	-/60/60	729
OTHER PLASTIC PIPE - FACE FIXED					
16mm PEX	2.6	FC25	19	-/60/45	729
20mm PEX	2.9	FC25	25	-/60/30	729
16mm PEX/AL/PEX	2.0	FC25	19	-/60/45	729
20mm PEX/AL/PEX	3.1	FC25	25	-/60/45	729
25mm PVC Conduit**		FC25	45	-/60/45	729
OTHER PLASTIC PIPE - IN WALL					
20mm PEX	2.9	FC25	45	-/60/45	693
25mm PP-R	3.7	FC25	45	-/60/45	693

* Tested using a 64mm wide steel stud with a single layer of 13mm fire rated plasterboard on each side of the frame. A total wall thickness of 90mm. Pipe collars are fixed using hollow wall anchors directly into plasterboard - not fixed into framing or studs in wall. Intumescent sealant is applied in the space between the pipe and plasterboard on both the exposed and unexposed face.

** 25mm PVC conduit filled with 3 power cables.

13MM PLASTERBOARD INSTALLATION DETAILS:



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*	FTC
PVC PLASTIC PIPE					
40	2.0	FC40	47	-/120/120	718
50	2.2	FC50	57	-/120/120	718
65	2.7	FC65	72	-/120/120	718
80	2.9	FC80	87	-/120/120	718
100	3.2	FC100	112	-/120/120	718
OTHER PLASTIC PIPE					
16mm PEX	2.6	FC25	19	-/120/120	718
20mm PEX/AL/PEX	3.1	FC25	25	-/120/120	718

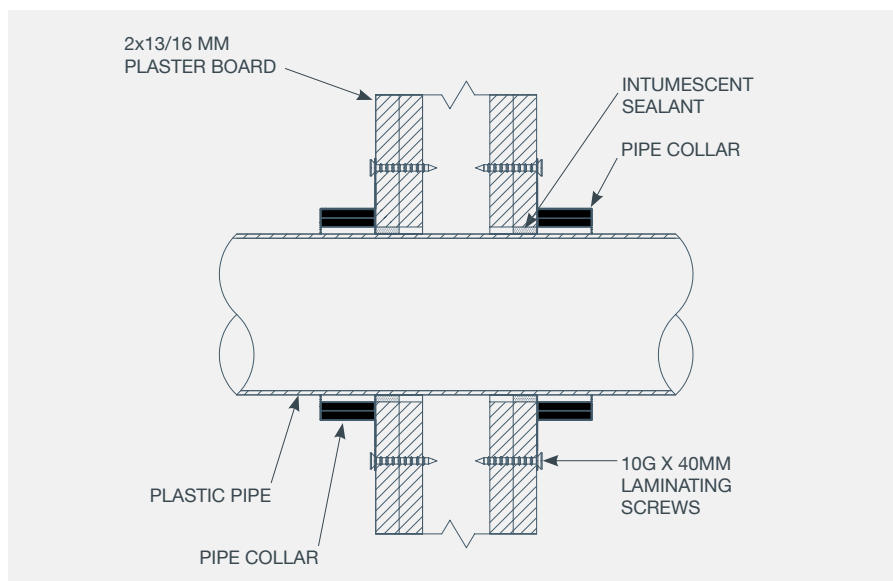
* Tested using a 64mm wide steel stud with a single layer of 2 x 16mm fire rated plasterboard on each side of the frame. A total wall thickness of 128mm. Pipe collars are fixed using 10G x 40mm laminating screws directly into plasterboard - not fixed into framing or studs in wall. Intumescent sealant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

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*	FTC
PVC PLASTIC PIPE					
16mm PEX	2.6	FC25	19	-/120/120	
20mm PEX	2.9	FC25	25	-/120/120	
25mm PEX	3.7	FC25	28	-/120/120	

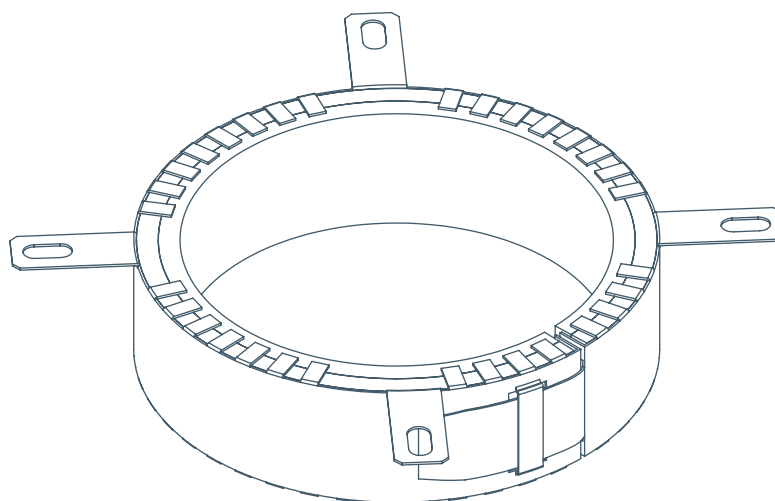
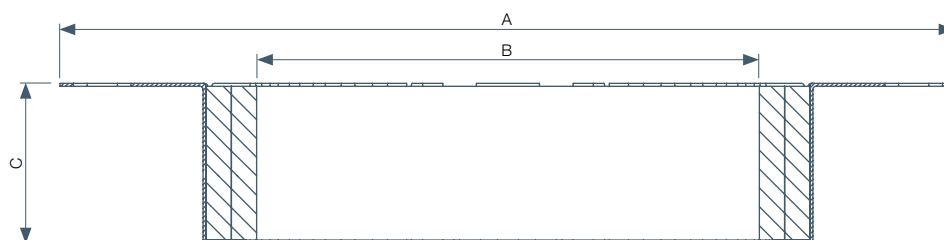
* Tested using a 64mm wide steel stud with a single layer of 2 x 13mm fire rated plasterboard on each side of the frame. A total wall thickness of 116mm. Pipe collars are fixed using 10G x 40mm laminating screws directly into plasterboard - not fixed into framing or studs in wall. Intumescent sealant is applied in the space between the pipe and plasterboard on both the exposed and unexposed face.

2 X 13/16MM PLASTERBOARD INSTALLATION DETAILS:



PIPE COLLAR DIMENSIONS

CODE	ALLFC25GALV	ALLFC40SS ALLFC40GALV	ALLFC50SS ALLFC50GALV	ALLFC65SS ALLFC65GALV	ALLFC80SS ALLFC80GALV	ALLFC100SS ALLFC100GALV	ALLFC150SS ALLFC150GALV
Nom. Pipe Diameter	25mm	40mm	50mm	65mm	80mm	100mm	150mm
Outside Diameter (A)	44mm	63mm	88mm	102mm	120mm	145mm	190mm
Inside Diameter (B)	31mm	50mm	63mm	77mm	95mm	120mm	165mm
Collar Height (C)	28mm	28mm	28mm	28mm	28mm	38mm	54mm
# of Fixing Tabs	2	2	3	3	3	4	6



INSTALLATION INSTRUCTIONS:

1. Ensure substrate around pipe is flat and free from obstructions.
2. Open pipe collar and position around pipe.
3. Slide tab through slot in pipe collar and fold back 180° to secure.
4. Secure pipe collar into concrete by using M6 masonry anchors or expanding metallic bolts. Install pipe collars into plasterboard using expanding hollow core wall anchors. Do not use fixings which rely on plastic or nylon components for grip.
5. Install only from underside on floor penetrations. Install pipe collar on both sides for wall penetrations.

PIPE WRAPS

Pipe wraps are designed to be installed in solid construction walls and floors and consist of a layer(s) of intumescent sealed in a polyethylene sleeve. The sleeve features a strip of double sided tape to enable easy installation.

When a fire occurs the intumescent seal is activated and expands into the penetration cavity as the burning plastic pipe melts. When the intumescent seal expands it forms a fire resistant plug in the penetration, preventing the spread of fire.

The pipe wrap is designed to have the ends of intumescent material meet around the circumference of the pipe. No overlap will exist, allowing pipe to be centrally located within a core hole. For pipe sizes up to 100mm, only one layer of intumescent material is required, ensuring core holes can be kept to a minimum size. Allproof pipe wraps have been tested on a variety of plastic pipes and are available in stock sizes from 40-150mm.



SUITABLE FOR FITTING WITHIN:

- Concrete, masonry and porous concrete wall constructions
- Concrete floor construction
- Plasterboard penetrations (with Fireband)

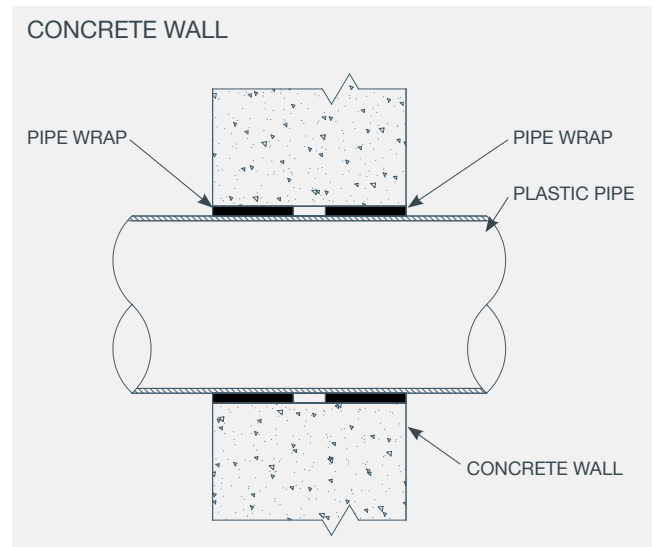
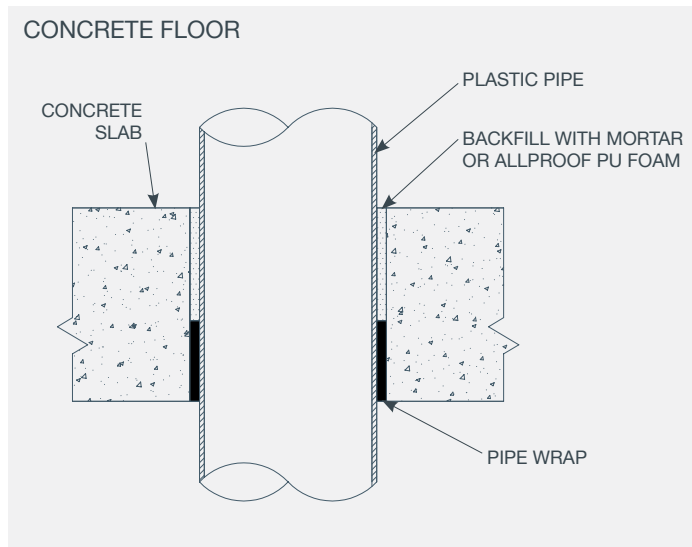
FEATURES:

- Water resistant
- Advanced intumescent technology allows smaller core holes
- Simple to use - easy to install
- For use on various plastic pipes
- Removable “pipe wrap installed” label for pipe work/wall

INSTALLATION INSTRUCTIONS:

1. Position fire wrap around circumference of pipe and remove backing from the self adhesive strip and join ends together.
2. Slide wrap into position ensuring wrap is located entirely within depth of the wall or floor. For floor applications, the wrap should be flush with the underside of the floor. For wall applications, two wraps are required - one from each side; each wrap should be flush with the outside wall.
3. If there is a space between the concrete and the outer side of the wrap and above the wrap, backfill the space with Allproof PU Foam or mortar.
4. The polyethylene sleeve can be removed and intumescent strip taped in place if the core hole is very tight.
5. For plasterboard wall applications, an Allproof Fireband must be used.

CONCRETE INSTALLATION DETAILS:



PIPE WRAP TEST RESULTS:

All testing on a 150mm thick concrete floor/wall slab unless otherwise noted.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT	PENETRATION	FLOOR FRL	FTC#	WALL FRL	FTC#
PVC PLASTIC PIPE							
40	2.0	FW40	62	-/120/120	644	-/120/120	717
50	2.2	FW50	72	-/120/120	615	-/120/120	615
65	2.7	FW65	82	-/180/180	642	-/120/120	716
80	2.9	FW80	102	-/120/120	615	-/180/180	610
100	3.2	FW100	127	-/120/120	642	-/180/120	610
150	4.5	FW150	192	-/90/90	608	-/120/120	614
HDPE PLASTIC PIPE							
50	3.5	FW50	67	-/120/120	609	-/120/120	614
75	4.0	FW65	92	-/120/120	609		
110	5.2	FW100	127	-/120/120	609		
150	6.6	FW150 +PR150**	192	-/180/180*	692		
PP-R PLASTIC PIPE (SDR 7.4)							
40	5.5	FW40	57	-/120/120	609	-/180/180	610
75	10.3	FW80	92	-/120/120	609	-/180/180	610
110	15.1	FW100	127	-/120/120	609	-/120/120	614
125	17.1	FW125	152			-/180/180+	610
RAUPIANO PP-MD							
40	1.8	FW40	57	-/120/120*	639		
50	1.8	FW50	67	-/120/120*	639		

*Tested on a 120mm thick concrete floor slab.

**0.9 Perforated ring fixed to underside of slab. Contact Allproof for details.

+ 75mm Wide Double Layer Pipe Wrap Used.

FIRE PLATES

The Fire Plate is designed for concrete floors where a large core hole has been drilled to accommodate the body of a shower waste which is larger than the pipe outlet size. This occurs commonly when acrylic shower trays are used with shower wastes that feature a vertical exit. The Fire Plate consists of a pair of galvanized steel plates that are fixed to the underside of a concrete floor slab. When they are fixed together, a cut out for 40mm pipe exists in the two halves. The core hole should be back filled with fire rated polyurethane foam and a 40mm pipe collar then fitted to the fire plate around the 40mm waste pipe.



SUITABLE FOR FITTING TO:

- Concrete floors
- Hollow core construction floors

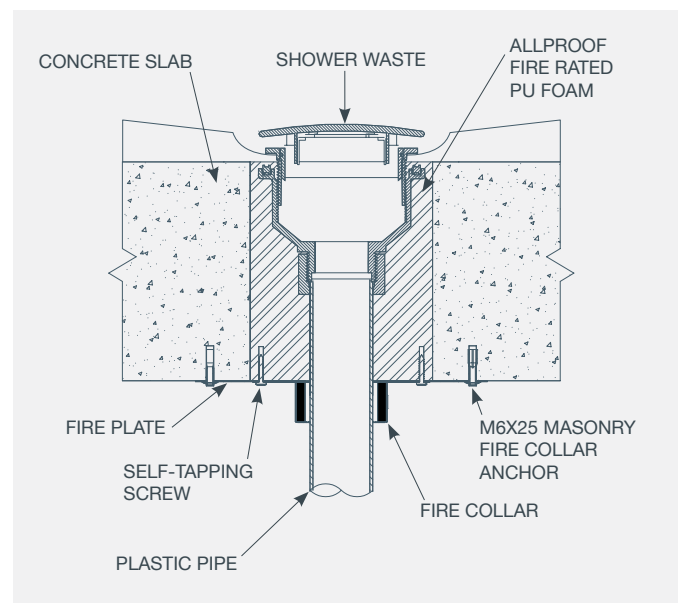
FEATURES:

- Galvanized steel plates
- Fire Plate used with Allproof 40mm Fire collar
- Retrofit plates and collars

INSTALLATION INSTRUCTIONS:

1. Installation should occur when acrylic tray and shower waste are installed. Ensure substrate around pipe is flat and free from obstructions.
2. Back fill core hole with Allproof fire rated foam from underside of slab. Start at the top of the penetration allowing time for the foam to expand towards bottom of the slab. Excess foam can be cut away with a knife or saw once it has cured.
3. Fix the two halves of the fire plate to the underside of slab around 40mm waste pipe. Secure into concrete through fixing points provided using M6 masonry anchors. Do not use fixings which rely on plastic or nylon components for grip.
4. Fix the 40mm pipe collar to the fire plate using self tapping metal screws. Slide pipe collar tab through slot and fold back 180° to secure.

INSTALLATION DETAILS:



CONCRETE FLOOR TEST RESULTS:

Ttest using a 150mm thick concrete floor slab with core hole backfilled with Allproof fire rated foam.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	FLOOR FRL*	FTC#
PVC PLASTIC PIPE					
40	2.0	FP40+FC40	125	-/120/120	608

CAST-IN COLLARS

Allproof Cast In Fire Collars are designed to reduce the labour content of passive fire rating plumbing pipe penetrations on concrete floors that are poured on site. Simply fix the base to the formwork on site and the plumbing pipe penetration is located complete with passive fire protection. This eliminates the need for core drilling of penetrations after the floor is poured and retro fitting a fire collar or wrap. Once the floor is poured and formwork stripped, simply cut off the top of the Cast In Collar and install pipe.

SUITABLE FOR FITTING WITHIN:

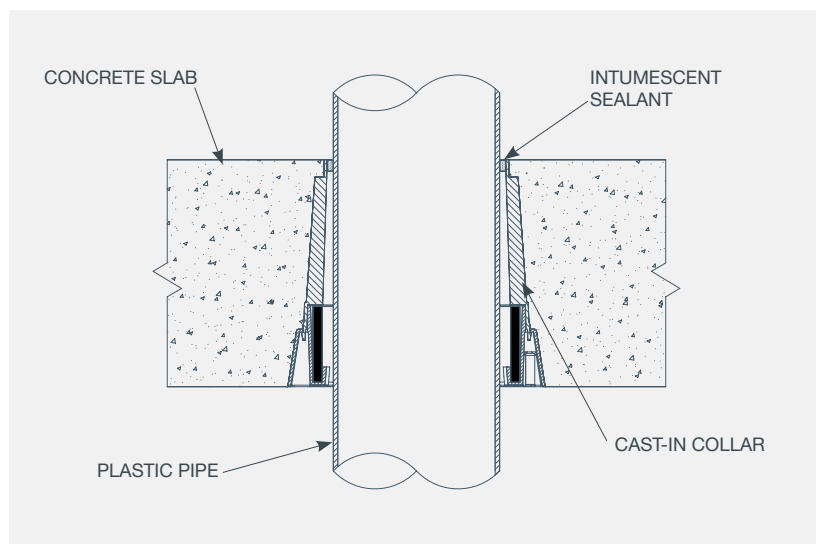
- Solid Masonry Floors

FEATURES:

- 250mm overall height
- Sturdy construction for casting in
- Multiple fixing positions
- Made from recycled PP



INSTALLATION DETAILS:



INSTALLATION INSTRUCTIONS:

1. Nail to formwork in correct location.
2. Pour concrete floor.
3. Remove formwork.
4. Cut plastic collar to desired height.
5. Install pipework.
6. Seal gap between pipe and collar on top side of floor with intumescent sealant.

CAST IN COLLAR TEST RESULTS:

All testing on 120mm thick concrete floor slab unless otherwise noted.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT	FLOOR FRL	FTC#
PVC PLASTIC PIPE				
40	2.0	ALLCIFC50S	-/180/180	692
50	2.2	ALLCIFC50S	-/240/180	692
65	2.7	ALLCIFC80S	-/240/180	692
80	2.9	ALLCIFC80S	-/240/180	692
100	3.2	ALLCIFC100S	-/120/120	698
HDPE PLASTIC PIPE				
40	3.0	ALLCIFC50S	-/240/180	692
100	5.2	ALLCIFC100S	-/120/120	698
PP-R PLASTIC PIPE (SDR 7.4)				
40	5.5	ALLCIFC50S	-/240/120	692
110	15.1	ALLCIFC100S	-/180/180	692
RAUPIANO PP-MD				
40	1.8	ALLCIFC50S	-/240/180	692
50	1.8	ALLCIFC50S	-/120/120	727
75	1.9	ALLCIFC80S	-/120/120	727
110	2.7	ALLCIFC100S	-/240/180	692
D-BLUE PP-MD				
40	1.8	ALLCIFC50S	-/120/120	726
50	1.8	ALLCIFC50S	-/240/180	692
75	2.3	ALLCIFC80S	-/120/120	726
90	2.8	ALLCIFC100S	-/120/120	726
110	3.4	ALLCIFC100S	-/240/180	692

LOW CAST-IN STACK COLLARS

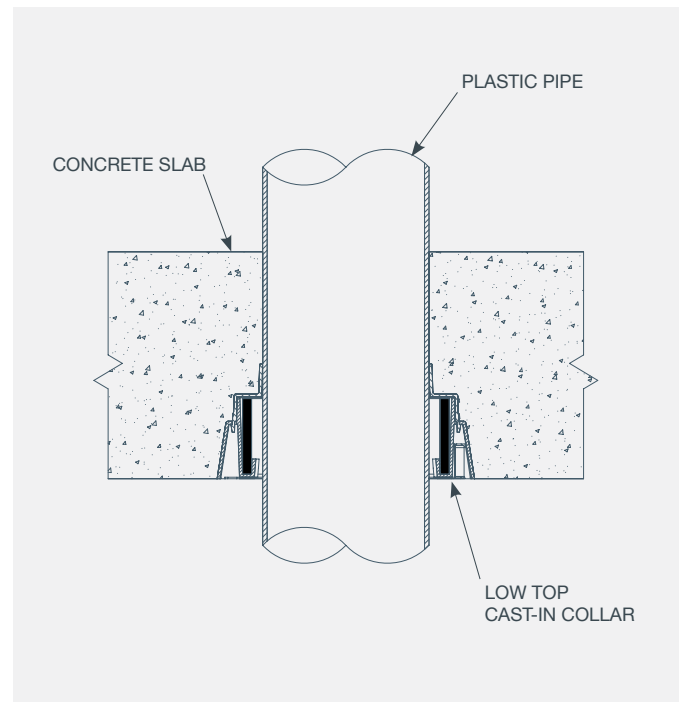
Allproof low cast-in stack collars are designed to suit 40-100mm PVC pipe penetrations. The low cast-in collar is installed in a similar manner to the standard cast-in collar. The main difference with the lowcast-in collar is that the pipe acts as the riser to the required height during the concrete pour. The pipe should be capped to prevent concrete entering the pipework during construction.



INSTALLATION INSTRUCTIONS:

1. Nail collar to formwork in correct location.
2. Install pipe and cap.
3. Pour concrete floor.
4. Remove formwork.
5. Cut pipe to desired height.

INSTALLATION DETAILS:



LOW CAST-IN COLLAR TEST RESULTS:

All testing on 120mm thick concrete floor slab unless otherwise noted.

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT	FLOOR FRL	FTC#
PVC PLASTIC PIPE				
40	2.0	ALLCIFC40S L	-/240/240	692
50	2.2	ALLCIFC50S L	-/240/180	692
65	2.7	ALLCIFC65S L	-/240/180	692
80	2.9	ALLCIFC80S L	-/240/180	692
100	3.2	ALLCIFC100S L	-/240/180	692
HDPE PLASTIC PIPE				
110	5.2	ALLCIFC100S L	-/240/180	692
RAUPIANO PP-MD				
110	2.7	ALLCIFC100S L	-/240/180	692
D-BLUE PP-MD				
110	3.4	ALLCIFC100S L	-/240/180	692

DROP IN FIRE COLLARS

Allproof Drop in fire collars provide a simple and effective passive fire rating option for thin concrete floors or trapezoidal steel tray concrete floors. These floors feature profile changes on the underside of the slab and make it difficult to fire rate with a conventional fire collar fixed to the underside of a floor slab.



SUITABLE FOR FITTING WITHIN:

- Thin concrete floors (minimum 70mm)
- Trapezoidal steel tray concrete floors

FEATURES:

- Installed and fixed from top side of slab
- Can be retrofit around pipe
- Made from Galvanised steel



DROP IN FIRE COLLAR TEST RESULTS:

Tested on a trapezoidal steel tray concrete floor with 70mm minimum thickness and 130mm maximum thickness.

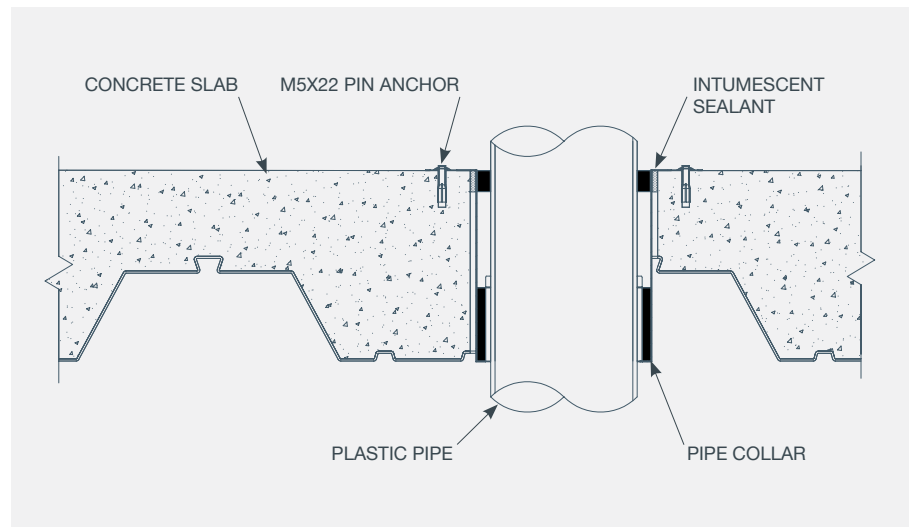
NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	FLOOR FRL*	FTC#
PVC PLASTIC PIPE					
40	2.0	DIFC40	72	-/90/60	728
50	2.2	DIFC50	82	-/90/90	728
65	2.7	DIFC65	102	-/90/90	728
80	2.9	DIFC80	112	-/90/90	728
100	3.2	DIFC100	142	-/90/60	728
150	4.5	DIFC150	192	-/90/90	728
PVC PIPE SOCKET CONNECTIONS					
40	4.0	DIFC40	72	-/90/60	728
100	6.4	DIFC100	142	-/90/90	728
HDPE					
150	7.0	DIFC150	192	-/90/90	728

INSTALLATION

INSTRUCTIONS:

1. Core drill hole to specified diameter to suit pipe size.
2. Install drop in fire collar fixing with two M5x22mm metal pin anchors.
3. Insert pipework through collar.
4. Seal gaps between concrete/ collar and collar/pipe with Allproof intumescent sealant.

INSTALLATION DETAILS:



FIRE BANDS

Designed for the fire protection of plasterboard walls penetrated by plastic pipes, Fire Bands are rolled galvanized steel sleeves with two slide tabs fixed through a corresponding slot and fold back tabs for fixing to the plasterboard. An Allproof pipe wrap is installed on each face of the plasterboard within the Fire Band. When a fire occurs the intumescent pipe wraps contained within the steel Fire Band activate, filling the band with a fire resistant seal.



SUITABLE FOR:

- Plasterboard wall penetrations

FEATURES:

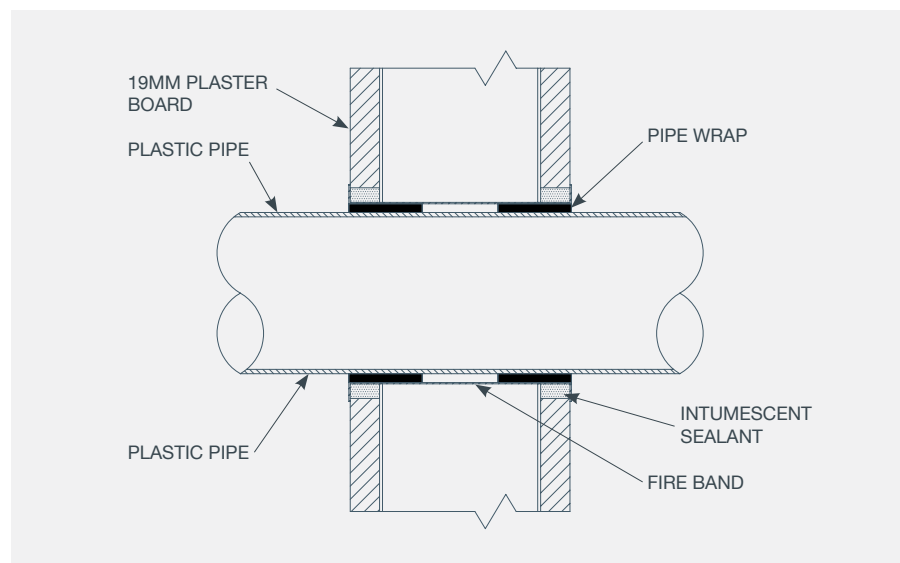
- Easy to use and install

INSTALLATION INSTRUCTIONS:

1. Open fire band around pipe, slide tabs through slot and fold back 180° to secure. Slide into plasterboard wall penetration.
2. Install an Allproof pipe wrap on each face of the plasterboard wall (two per fire band).
3. Seal gap between the Fire Band and the plasterboard of both wall faces with intumescent sealant.



INSTALLATION DETAILS:



PLASTERBOARD WALL TEST RESULTS:

NOMINAL PIPE SIZE (MM)	NOMINAL PIPE WALL THICKNESS (MM)	PRODUCT CODE	PENETRATION HOLE SIZE (MM)	PLASTERBOARD WALL FRL*	FTC#
PVC PLASTIC PIPE					
40	2.0	FB40+FW40	65	-/120/90	607
65	2.7	FB65+FW65	90	-/120/90	607
80	2.9	FB80+FW80	105	-/90/60	
100	3.2	FB100+FW100	130	-/90/90	
HDPE PLASTIC PIPE					
50	3.5	FB50+FW50	70	-/120/90	612
75	4.0	FB75+FW75	95	-/120/90	612
100	5.2	FB100+FW100	130	-/120/90	615
PP-R (SDR 7.4)					
40	5.5	FB40+FW40	60	-/120/120	613
63	8.6	FB65+FW65	83	-/120/90	613
110	15.1	FB100+FW100	130	-/120/90	613

*Tested using a 92mm wide steel stud with a single layer of 19mm plasterboard on each side of the frame. A total wall thickness of 130mm. Intumescent sealant is applied in the space between the fire band and plasterboard on both the exposed and unexposed face.



**EXCEPTIONAL
PRODUCTS THAT CAN
HELP OVERCOME
ISSUES REGULARLY
FACED ON SITE**



17 Bay Park Place
Beach Haven
PO Box 340-265
Birkenhead, Auckland
New Zealand

www.allproof.com