

FIREPRO

CI/SfB

B109 DATASHEET – Dec 15

FIRE PROTECTIVE BUILDING PRODUCTS

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Product specifications
can change. Contact
us to ensure you have
our latest datasheet

FIREPRO B109 INSULATING INTUMESCENT PIPE SLEEVES

Ideal for Plaster Board, Concrete & Brick Walls

Firepro B109 Insulating Intumescent Pipe Sleeves maintain the fire-rating of walls penetrated by plastic or metal pipes. They are especially useful where insulation continues uninterrupted through fire-rated walls. The sleeves consist of an intumescent fire stopping and insulation pipe section placed around the pipe where it penetrates a fire rated wall.

The B109 sleeve can be quickly and simply fitted on to a pipe and slid into the penetration without the need of support. A steel band is not required in plaster board walls.

To retrofit the B109 pipe sleeve may be slit along its length, fitted around the pipe and the joint sealed with self-adhesive aluminium tape.

When a fire occurs the B109 sleeve expands to fill the space between the pipe and the penetration. It will crush plastic pipes and close off the pipe forming a solid core preventing the passage of fire and smoke.

B109 can be cut to the required length with a knife.

B109 are not designed as a floor waste collar or wrap.

FIRE TESTING TO AS 1530.4 Assessed to AS 4072,1-2005

For water supply pipes protected by B109 Fire Sleeves.

Plasterboard lined walls or rigid walls

100mm (min) thick wall - 132mm (min) thick wall

	FRL	FRL
PVC Pipe (not sandwich core)		
protected with 180mm long B109		
43mm dia pipe 1.8mm wall thickness	-/60/60	-/120/120
82mm dia pipe 3.2mm wall thickness	-/60/60	-/120/120
110mm dia pipe 1.5mm wall thickness	-/60/60	-/120/120
160mm dia pipe 3.2mm wall thickness	-/60/60	-/120/120
HDPE Pipe protected with 180mm B109		
40mm dia pipe 3.0mm wall thickness	-/60/60	-/120/120
90mm dia pipe 3.5mm wall thickness	-/60/60	-/120/120
110mm dia pipe 4.3mm wall thickness	-/60/60	-/120/120
160mm dia pipe 6.2mm wall thickness	-/60/60	-/120/120
Copper Pipe wrapped with 40mm Rockwool		
Protected with 150mm long B109		
15mm dia pipe 1.0mm wall thickness	-/60/60	-/120/120
159mm dia pipe 2.0mm wall thickness	-/60/60	-/120/120



NOTES

1. Plasterboard lined wall Specification

60 Minute Wall Applications: The wall shall be constructed from min. 1 layer of 13mm or 16mm fire grade plaster board each side that has been tested or otherwise assessed to achieve a 1 hr FRL.

120 Minute Wall Applications: The wall shall be constructed from min 2 layers of 13mm or 16mm thick fire grade plaster board each side that has been tested or otherwise assessed to achieve a 2 hr FRL.

2) Rigid Wall – Concrete, Masonry or AAC

For walls thinner than those stated above 13 or 16mm thick fire rated plasterboard strips at least 100mm wide are installed around the opening with the necessary number of layers to form frames of the same height on both sides of rigid walls to meet the minimum thickness.

3) Fire rated Sealant – Firepro M706 or M707 sealant.

Apply min 20mm deep on each side of any gap between the B109 Fire Sleeve and wall.

4) Insulation

Copper pipes are continuously wrapped with 40mm Rockwool insulation and aluminium tape used to seal the joint between the Rockwool and B109 Fire Sleeve on both faces.

5) Installation

Fitted between wall construction and pipe penetration, equally protruding from each face of wall partition.

NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. If used beyond the situations detailed on this datasheet we advise confirming their suitability before installation. All dimensions are nominal.

We reserve the right to make changes or to withdraw designs and products without notice.

B109 FIRE SLEEVES**FIRE TESTING TO BS 476.20- 22 FOR FLOORS & WALLS**

Applies for situations where BS476.20 -22 is used.

B109 insulating intumescent Pipe Sleeves are fire tested to BS476 Pts 20-22 1987 with both pipe ends capped to simulate a continuous run of pipe.

PIPES PENETRATING CONCRETE FLOORS

	Concrete floor 100mm thick	Concrete floor 140mm thick
PVC PIPES		
Up to 82mm dia pipe with B109 at 190mm long	-/60/60	-/120/120
110mm dia pipe with B109 at 190mm long	-/60/60	-/120/60
160mm dia pipe with B109 at 140mm long	-/60/60	-/90/90
POLYBUTYLENE		
12mm to 28mm dia pipe with B109 at 140mm long	-/60/60	-/120/120
COPPER		
12mm dia copper pipe with B109 at 132mm long	-/60/60	-/120/15
Up to 160mm dia copper pipe with B109 at 132mm long	-/60/15	-/120/15
STEEL		
Up to 22mm dia pipe with B109 at 132mm long	-/60/60	- /120/120
Up to 165mm dia pipe with B109 at 132mm long	-/60/15	-/120/15

PIPES PENETRATING WALLS

	Brick or concrete wall or 1 hr plasterboard wall	Brick or concrete wall or 2 hr plasterboard wall
PVC		
Up to 55mm Dia. Pipe with B190 - 160mm long	-/60/60	-/120/120
Up to 110mm Dia. Pipe with B190 - 182mm long	-/60/60	-/120/120
160mm Dia. Pipe with B190 - 182mm long	-/60/60	-/120/117
POLYBUTYLENE		
12mm Dia.pipe with B109 - 132mm	-/60/60	-/120/120
15mm Dia.pipe with B109 - 132mm lon	-/60/60	-/120/114
21mm Dia.pipe with B109 - 132mm long	-/60/60	-/120/120
28mm Dia.pipe with B109 - 132mm long	-/60/60	-/120/120
COPPER		
12mm Dia.copper pipe with B109 - 132mm long	-/60/60	-/120/120
Up to 160mm Dia.copper pipe with B109 - 132 long	-/60/15	-/120/15
STEEL		
Up to 22mm Dia.Pipe with B109 - 132mm long	-/60/60	-/120/120
Up to 165mm Dia.pipe with B109 - 132mm long	-/60/15	-/120/15

Sizes Available & Product Codes**Nominal Internal Diameter**

Firepro B109-21	21mm
Firepro B109-27	27mm
Firepro B109-34	34mm
Firepro B109-42	42mm
Firepro B109-48	48mm
Firepro B109-60	60mm
Firepro B109-76	76mm
Firepro B109-89	89mm
Firepro B109-114	114mm
Firepro B109-169	169mm

Variations in external diameter will occur in manufacture. Check sizes before installation.
Typically external diameter is 54mm over internal (if 27mm thick wall).

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