FIREPRO

CI/SfB

B309 DATASHEET – Nov 14

FIRE PROTECTIVE BUILDING PRODUCTS

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

FIREPRO B309 Pipe Fire Wraps For Metal Pipes

PATENT APPLICATIONS NZ50506, AU42574-00

Nominal Pipe ID (mm)	Walls: 2 hour FRL	Walls: 3 hour FRL	Walls: 4 hour FRL	Floors: 2 hour FRL	Floors: 3 hour FRL	Floors: 4 hour FRL
25	B309V B309D B309S	B309V B309D B309S	B309V B309D B309S	B309V	B309V	B309V
32						
40						
50		B309V B309D	B309V B309D			
65		B309V B309D	B309V B309DII			
80						
100						

ADVANTAGES

- **ü** Simple to apply.
- **ü** Inexpensive.
- **ü** Readily identifiable red colour.
- **ü** No metal band required in solid walls/floors.

DESCRIPTION

The B309 series of pipe wraps maintain the fire resistance of walls and floors whilst allowing for movement of metal pipes through temperature change, vibration, displacement, seismic and other movement. B309 wraps maintain the integrity of the floor or wall. They are designed to be used in conjunction with B302 heat guards and B303 or B304 pipe bands.

B309 fire wraps are protective sleeves containing flexible cushioning material and intumescent material. The intumescent swells in a fire to form a fire resistant barrier filling the gap between the pipe and the wall or floor it penetrates.

B309 wraps are designed for use on metal pipes commonly used in building construction at ambient temperature. They are not designed for hot or chilled pipes; Firepro has other fire protective solutions for such pipes.

Four styles of B309 wraps are manufactured:

B309V fire wrap - for vibration and other movement. The gap between the outside of the pipe and the inside of the hole must not exceed 20mm.

B309D fire wrap - allows for pipe deflection and movement. The gap between the outside of the pipe and the inside of the hole must not exceed 30mm at maximum deflection.

B309DII fire wrap - special version of B309D fire wrap for four hour fire ratings on pipes 65mm nominal bore and larger.

B309S fire wrap - primarily designed for sprinkler pipes and for seismic movement requirements. Allows 25mm clearance for movement on pipe sizes up to 40mm nominal ID and 50mm clearance on larger pipes.

B302 heat guards are heat guards made from steel mesh. If the requirement for insulation is waived by appropriate authorities, the heat guards may be omitted.

B303 steel bands are used when the B309 wrap will penetrate hollow core construction or where it is necessary to confine the wrap within a defined hole size. See Table 2.

SPRINKLER PIPES

Australian Fire Standards require fire stopping of clearances around sprinkler pipes penetrating fire walls and floors. NZS Fire Safety Evacuation Regulations 1996 NZS4541 section 403.14.3 requires clearances around Sprinkler Pipes passing through walls and floors, except where no movement of the pipe could cause damage to the fire wall or floor during seismic movement. Pipes up to 40mm nominal diameter require 25mm clearance around all sides and larger pipes require 50mm clearance around all sides. B309S wraps are designed for these clearances.

COPPER PIPES

Copper pipes of nominal bore sizes 25mm to 100mm can be protected by B309 wraps for a maximum two hour FRL. The same B309 styles apply as for steel pipes.

FIRE TESTING

Firepro B309 metal pipe fire wraps are tested to BS476:20 and AS1530:4 for fire resistance integrity and insulation when used with B302 heat guards, and integrity only, if heat guards are not used.

HOW TO SPECIFY

"Apply Firepro B309V (or B309D or B309DII or B309S) fire wraps to metal pipes penetrating fire walls and floors. Use together with B303 or B304 steel bands. B302 heat guards are required/not required."

OTHER FIREPRO PRODUCTS

Firepro manufacture and distribute a full range of pipe penetration products. Bring us your fire rating problem - we probably have the answer.

Pipe Nominal Bore	Band Sizes for Hollow Core Walls/Floors		Drill Sizes for Solid Core Walls/Floors	
	B309V B309D B309DII	B309S	B309V B309D B309DII	B309S
25	B303-140C-73	B303-140C-83	73mm	83mm
32	B303-140C-83	B303-140C-87	83mm	92mm
40	B303-140C-87	B303-140C-100	88mm	98mm
50	B303-140C-100	B303-140C-170	100mm	170mm
65	B303-140C-116	B303-140C-186	116mm	186mm
80	B303-140C-132	B303-140C-199	132mm	199mm
100	B303-140C-154	B303-140C-224	154mm	224mm

Table 2 - B303 band sizes

HEALTH AND SAFETY

This product is sealed within a plastic covering which is not to be removed.

Treat as for all plastic encased products.

No special handling requirements are necessary.

Do not place over nose or mouth. Do not ingest.

Disposal: Dispose of in accordance with local regulations.

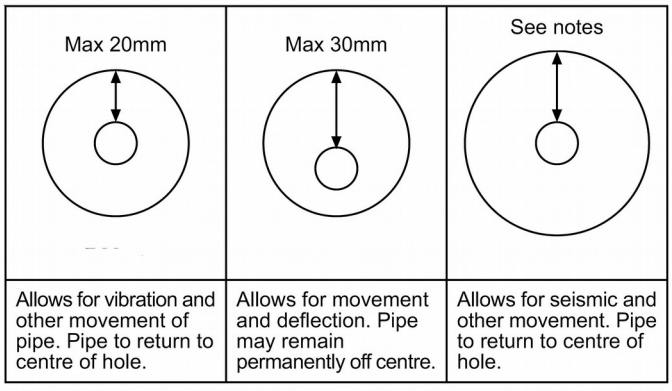


Diagram 1 - Pipe positioning within hole
Centre circle represents Pipe.
Outer circle represents hole in Wall or Floor.

INSTALLATION, B309V

1. Pipe must be centred in hole. Maximum gap between the outer surface of the pipe and the inside surface of the hole or B303 band is 20mm.

2. Do not remove outer plastic sleeve.

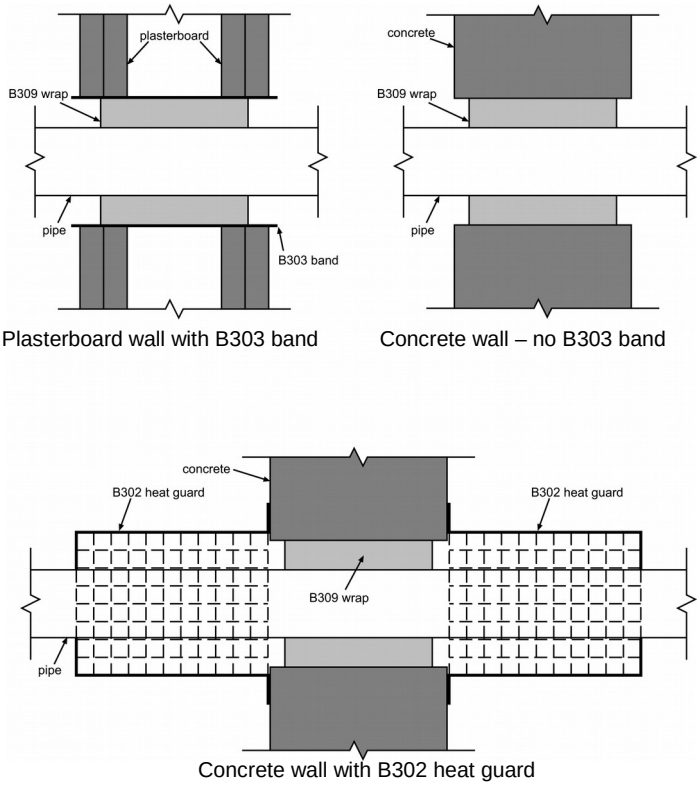
3. Place wrap firmly around uninsulated pipe with printed side of wrap facing outwards. Remove backing tape from adhesive strip and seal.

4. Slide into required position in wall or floor.

5. If wrap is in hollow core construction apply B303 band of appropriate size. (See Table 2.) The B303 band should be sealed into place using Firepro M707 fire and acoustic sealant.

6. Fill any gaps with Firepro M707 fire and acoustic sealant, including any gap between the B303 band and the wall or floor.

7. Install B302 heat guards as required.



Plasterboard wall with B303 band

Concrete wall – no B303 band

Concrete wall with B302 heat guard

Diagram 2 - Installation cross-section

INSTALLATION, B309D and B309DII

Install as B309V except steps 1 and 5 should be amended as follows.

1. Pipe may be off-centre in hole as long as the B309D wrap in installed in a maximum gap of 30mm between the outer surface of the pipe and the inside surface of the hole or B303 band.

5. A B303 band will normally be required unless the diameter of the cored hole is the outside diameter of the pipe plus 40mm. The B303 band should be sealed into place with Firepro M707 fire and acoustic sealant.

INSTALLATION, B309S

Install as B309V except step 1 should be amended as follows.

1. Pipe should be centred in hole. The gap between the outer surface of the pipe and the inside surface of the hole or B303 band to be 25mm for pipes of nominal ID 40mm or smaller. Larger pipes require 50mm between the outer surface of the pipe and the inner surface of the hole or B303 band.

B302 HEAT GUARDS

B302 heat guards have been fire tested to AS1530:4 in floors for up to 2 hours. Further tests are pending. See B302 Data Sheet for details.