

UniWrap®

Continuous Fire Rated Pipe Wrap

Universal intumescent pipe wrap for protecting combustible penetrations from fire and smoke



Technical Data Sheet

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KEY BENEFITS

- Universal length for versatility and ease of installation
- Contains innovative high temp mesh for directional expansion
- Can be used on plastic/PVC pipes as well as insulated or lagged metal pipes
- High performance through high expansion rate
- Halogen free, contains no asbestos, ceramic, mineral fibres and is environmentally friendly
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components
- Tested on uPVC, PP, MDPE + PE up to 200mm diameter

INTRODUCTION



UniWrap® is an intumescent composition based on elastomeric thermoplastic polymers, binders and designed to provide high volume expansion and pressure seal. The product is fire tested to multiple international standards giving a fire resistance of up to 4 hours, including EN1366-3 to -/120/120.

The pipes tested include:

- PVC
- Polypropylene
- MDPE
- HDPE
- HPPE
- ABS

up to a size of 200mm diameter through concrete / blockwork floors and walls.

PROPERTIES

- Tested in Plasterboard, Block Wall, Concrete and Masonry.
- Tested in Walls and Floors.
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components.
- Contributes to Green Building.
- Shelf life of 5 years.
- Suitable for wall and floor installation.
- The product is based on a thermoplastic composite and is therefore non-toxic.
- Halogen free, contains no asbestos, ceramic, mineral fibres and is environmentally friendly.
- Not affected by fungus, vermin or rodents.
- Remains flexible between -40°C to +130°C, long life and is easy to use.

SPECIFICATION

Pipe Diameter	28mm, 32mm, 55mm, 63mm, 75mm, 82mm, 90mm, 110mm, 125mm, 160mm or 200mm
Width (Nominal)	40mm
Thickness (Nominal)	2mm per layer, up to 10mm thickness using multiple layers – see installation sheet for more detail
Density	1.3 kg/m ³
Volume Expansion at 300°C	25 times
Fire Resistance	2 hours

INSTALLATION

Installation details and technical support are available from Boss Fire & Safety Technical Team or on our website www.bossfire.com.au.

1. Ensure the aperture for the pipe size has adequate annular gap for the number of layers of UniWrap® to be installed, as per the installation table. Insert the pipe into the aperture.



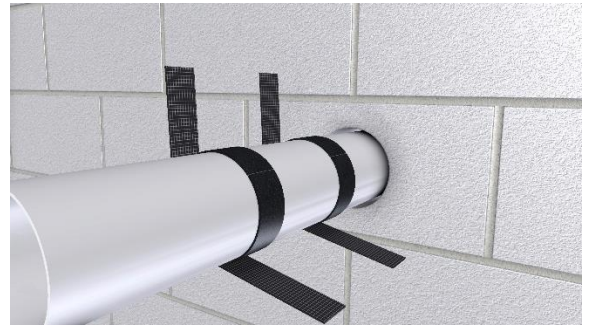
2. Using the measurements on the side of UniWrap® box, cut the UniWrap® to the correct length to wrap fully around the pipe.



3. Wrap the UniWrap® around the pipe, securing to itself via the double sided tape. For a simpler installation ensure the double sided tape does not stick the UniWrap® to the pipe itself.



4. Place additional layer(s) of wrap around the pipe if required, depending on your pipe size.



5. Secure again with adhesive tape.



6. Push the UniWrap® into the annular gap between the wall opening and the pipe. Adjust the position of the wrap so that the edge is flush with the wall or floor surface.

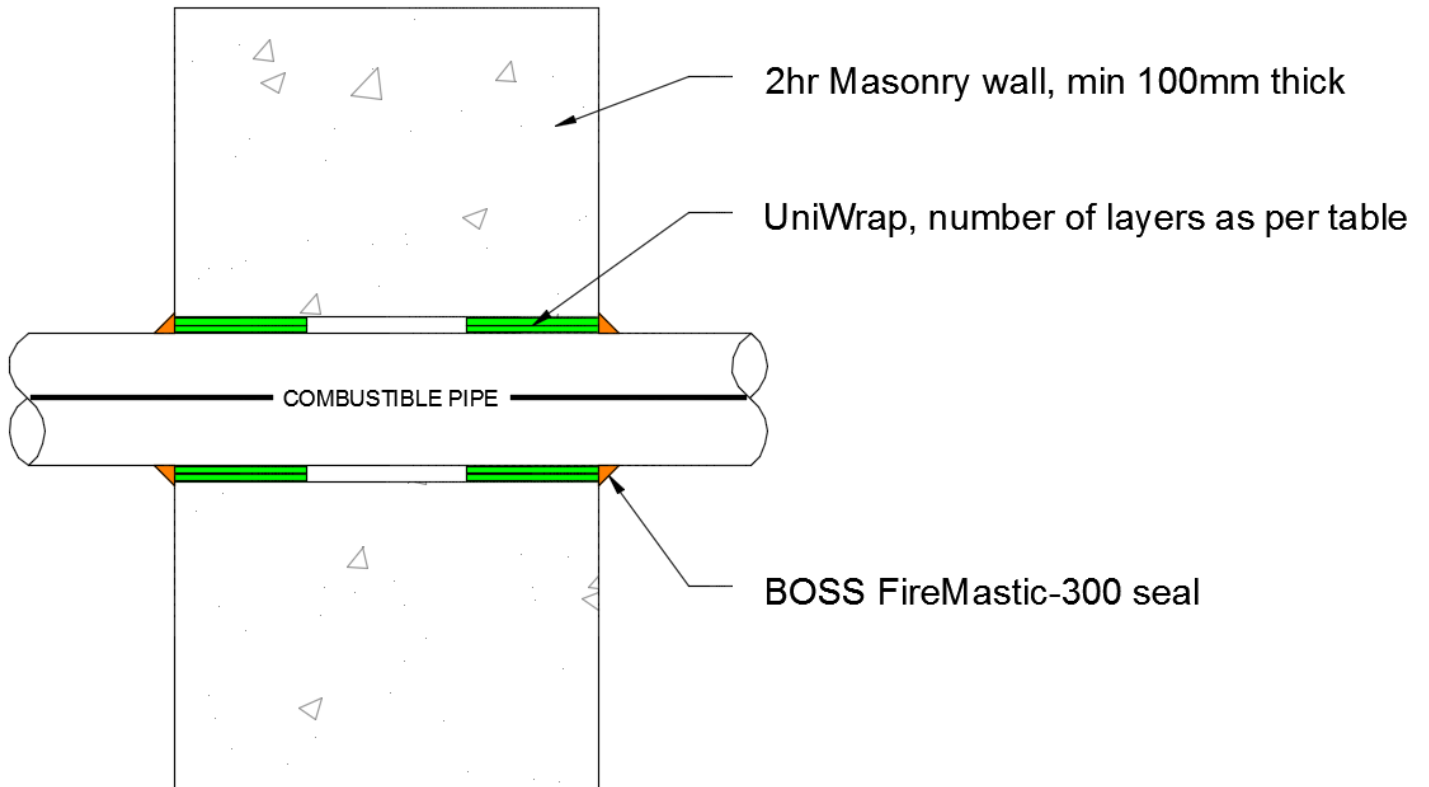
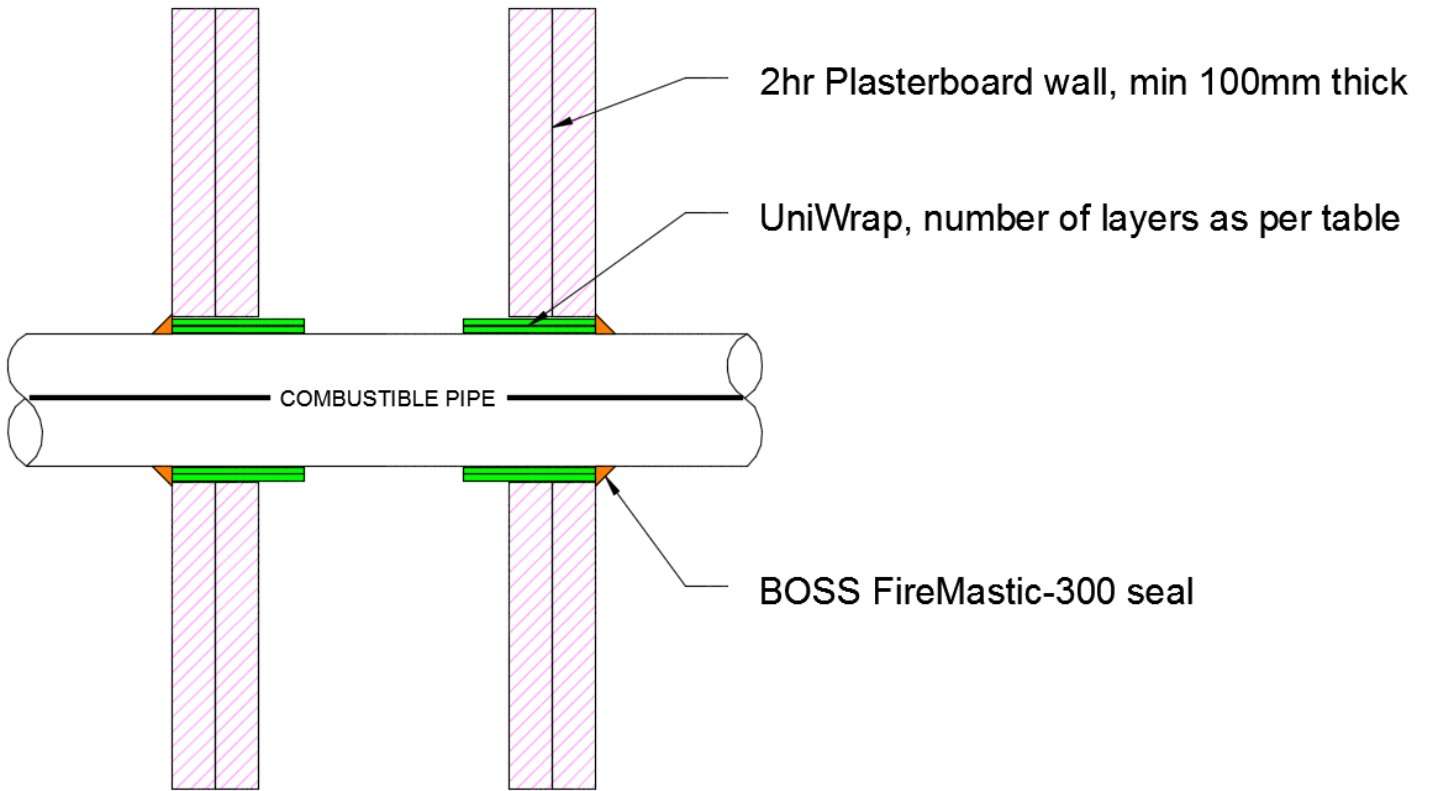


7. Seal over the top of the annular gap with FireMastic-300 Sealant to a depth of 5mm. Smooth the finish with a small trowel or by hand. FireMastic-300 can be cleaned up with water.



8. Maintain record of installation.

INSTALLATION DIAGRAM



INSTALLATION CONFIGURATION TABLE

UniWrap® Configuration 120 mins for Combustible Pipes		
Pipe Dia (mm)	No. of Wraps	Thickness (mm)
40	1	2
55	2	4
63	2	4
75	2	4
82	2	4
90	3	6
110	3	6
125	4	8
160	4	8
200	5	10

UniWrap® Combustible Pipe Compatibility		
PE	PVC	SAN+PVC
HDPE	uPVC	PP
MDPE	CPVC	ABS

UniWrap® Configuration 120 mins for Lagged Metallic Pipes		
Lagging Material	No. of Wraps	Thickness (mm)
Phenolic Foam	2	4
Elastomeric Foam	2	4
Glass Wool	2	4
Stone Wool	2	4

COMPLIANCE

UniWrap® is manufactured in the UK, meeting the highest quality standard in compliance to BS EN ISO 9001:2008. For fire test certification information contact Boss Fire Technical team on 1300 502 677.

STORAGE AND DISPOSAL

UniWrap® is not affected by outdoor environment. However, for long-term storage and ease of installation it is recommended that it should be stored indoors. No limit is given for the shelf life as the product will not deteriorate in storage.

ENVIRONMENT

- Low VOC (air quality)
- No Power Tools required for installation (no energy source required)
- Low Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- No water pollution
- Smoke and Air Tightness
- Noise Reduction
- Thermal Insulation
- Recycling of Packaging
- Avoidance of Air Filtration
- Does not emit halogenated by-products
- Contains no raw materials known to have an estrogenic effect
- The life cycle of UniWrap® is over 25 years

HEALTH AND SAFETY

To learn more about the safe handling of UniWrap®, see the Safety Data Sheet available at: www.bossfire.com.au.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Fire & Safety's attention relating to the fire resistance or performance of the product described,

BOSS Fire & Safety reserve the right to amend this report.

BOSS Fire & Safety strive to constantly improve and develop products so this information may change without notice.

FURTHER TECHNICAL INFORMATION

For additional technical information on the performance of UniWrap® or other BOSS products please contact our Technical Services team on:

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