

AGNI-Sleeve[®]

PRODUCT DESCRIPTION

AGNI-Sleeve is a fire-stop product consisting of flexible fire-resistant matting with a layer of high-pressure exerting intumescent material bonded to it. It is designed to be installed through fire-rated walls, floors, and ceilings, creating a fire-resistant passage for services.

In the event of a fire, the intumescent layer of AGNI-Sleeve expands to many times its original thickness. This expanded material exerts intense inward pressure, forming a dense insulating char plug.

This property of AGNI-Sleeve enables the expanding char to seal any gaps created by melted cable insulation or plastic pipes, effectively blocking the passage of hot toxic gases and flames. r plastic pipes, effectively blocking the passage of hot toxic gases and flames.

PRODUCT CHARACTERISTICS

1. Tested to AS1530.4-2014 to comply with AS4072.1- 2005 in NATA/IANZ accredited laboratories.
2. FRL/FRR is up to 240 for integrity and insulation.
3. Its innovative, flexible property makes the installation process easier for scenarios with limited space and hard-to-reach openings.
4. Tested and certified for the following substrates: plasterboard, concrete, Speedpanel and CLT.
5. Can be used in conjunction with AGNI-Board and AGNI-Seal.
6. Tested and certified for AGNI-Plumbing application covering services ranging from 20mm to 100mm uPVC, PVC-C, PB, PE, PPR, PEX, PEX-AL-PEX, and insulated copper pipes.
7. Tested and certified for AGNI-Electrical applications covering the following services: conduits, power and data cables, and AC bundles.
8. Easy to install.
9. Environmentally friendly product.
10. Unlimited storage time under proper storage conditions.
11. Non-toxic, halogen-free, contains no asbestos and causes no known effects on plastic pipes.

APPLICATION

AGNI-Sleeve[®] is designed to:

- Fire-stop service penetrations in fire-rated walls, floors & ceilings.



- Create robust, flexible, easy-to-install fire protection for complex service penetration configurations where it is not possible to install conventional fire collars
- Provide a fire-stopping seal around electrical service penetrations like cable trays, cable bundles and conduits.
- Provide a fire-stopping for floor services that are especially challenging for protection: for instance, floor wastes & sockets accessible only from one side.
- Provide a fire-stopping solution for large-diameter combustible pipes installed without separation.

TECHNICAL DATA

Width	Up to 1000 mm
Length	380 mm up to 2500 mm (longer lengths are available on request)
Thickness	3.5 mm
Density	3.5 Kg/m ²
Expansion time	less than 7 minutes
Fire resistance rating (FRR/FRL)	Up to 4 hours
Colour	Black/grey
Storage	Unlimited if stored at t in between 50°C - 50°C

The AGNI-Sleeve[®] Application Range.

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
<ul style="list-style-type: none"> • Min. 1 x layer of 13mm plasterboard on each side • Concrete walls • Solid or hollow masonry walls 	PVC-U pipes				
	DN100mm PVC-U pipe	-/60/60	AGNI-Seal, AGNI-Straps	AP-076	PF24069
	PEX pipes				
	DN40mm PEX pipe	-/60/60	AGNI-Seal, AGNI-Straps	AP-082	PF24078
	PEX-AL-PEX pipes				
	DN32mm PEX-AL-PEX	-/60/60	AGNI-Seal, AGNI-Straps	AP-101	PF24082
	Kelox pipes				
	Insulated Kelox pipe	-/60/45	AGNI-Seal	AP-102	PF24082
<ul style="list-style-type: none"> • Min. 2 x layers of 13mm plasterboard on each side & 64mm steel stud • Min 116 concrete walls • Min 116 solid or hollow masonry walls 	Copper pipes with lagging				
	DN15mm copper pipe with 38mm lagging	-/120/120	AGNI-Black	AP-214	PF25008
	DN50mm copper pipe with 13mm lagging	-/120/120	AGNI-Black	AP-214	PF25008
	DN50mm copper pipe with 32mm lagging	-/120/120	AGNI-Black	AP-214	PF25008
	DN32mm copper pipe with 32mm lagging + DN15mm copper pipe with 25mm lagging + DN50mm copper pipe with 25mm thick insulation	-/120/120	AGNI-Black	AP-217	PF25008
	DN32mm copper pipe with 32mm lagging + DN15mm copper pipe with 25mm thick insulation	-/120/120	AGNI-Black	AP-216	PF25008

The AGNI-Sleeve[®] Application Range

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
	DN20mm copper pipe with 9mm lagging	-/120/120	AGNI-Black	AP-214	PF25008
<ul style="list-style-type: none"> • Min. 2 x layers of 13mm plasterboard on each side & 64mm steel stud • Min 116 concrete walls • Min 116 solid or hollow masonry walls 	PEX pipes				
	DN16mm PEX pipe with 38mm lagging	-/120/120	AGNI-Black	AP-215	PF25008
	DN20mm PEX pipe with 9mm lagging	-/120/120	AGNI-Black	AP-215	PF25008
	DN32mm PEX pipe with 32mm lagging	-/120/120	AGNI-Black	AP-215	PF25008
	AC Bundles				
	2× Pair coils with PE insulation + 2× TPS cables	-/120/120	AGNI-Seal AGNI-Straps	AE-034	PF24020
	2× Pair coils wit FR insulation + 2× TPS cables	-/60/45	AGNI-Seal	AP-102	PF24082
<ul style="list-style-type: none"> • Min. 100mm concrete floor / ceiling 	PVC-U pipes				
	DN32 PVC-U pipe	-/120/120	AGNI-Seal	AP-138	PF24122
	DN50 PVC-U pipe	-/120/120	AGNI-Seal	AP-138	PF24122
	DN65 PVC-U pipe	-/120/120	AGNI-Seal	AP-138	PF24122
	DN80 PVC-U pipe	-/120/120	AGNI-Seal	AP-138	PF24122
	DN100 PVC-U pipe	-/120/120	AGNI-Seal	AP-138	PF24122
	DN150mm PVC-U pipe	-/90/90	AGNI-Seal	AP-138	PF24122

The AGNI-Sleeve[®] Application Range

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
• Min. 100mm concrete floor / ceiling	PPR-R pipes				
	DN32mm PP-R pipe	-/120/120	AGNI-Seal	AP-139	PF24122
	DN90mm PP-R pipe	-/120/120	AGNI-Seal	AP-139	PF24122
• Min 120mm concrete floor/ceiling	PVC-U pipes				
	DN32 PVC-U pipe	-/120/120	AGNI-Seal AGNI-Clips	AP-067	PF24070
	DN50 PVC-U pipe	-/120/120	AGNI-Seal AGNI-Clips	AP-215	PF24070
	DN100 PVC-U pipe	-/120/120	AGNI-Seal AGNI-Clips	AP-215	PF24070
	PP-R pipes				
	DN40 PP-R pipe	-/120/120	AGNI-Seal AGNI-Clips	AP-068	PF24070
DN90 PP-R pipe	-/120/120	AGNI-Seal AGNI-Clips	AP-068	PF24070	
• Min 190mm Concrete Floor / Ceiling	PPR-R pipes				
	DN125mm PP-R pipe	-/360/360	AGNI-Seal	AP-111	PF24096
	PVC-U pipes				
	DN32mm PVC-U pipe	-/360/360	AGNI-Seal	AP-109	PF24096
	DN50mm PVC-U pipe	-/360/360	AGNI-Seal	AP-109	PF24096

The AGNI-Sleeve[®] Application Range

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
• Min 190mm Concrete Floor / Ceiling	DN50mm PVC-U pipe	-/360/360	AGNI-Seal	AP-109	PF24096
	DN80mm PVC-U pipe	-/360/360	AGNI-Seal	AP-109	PF24096
	DN100mm PVC-U pipe	-/360/360	AGNI-Seal	AP-109	PF24096
	DN80mm PVC-U waste pipe	-/360/360	none	AP-110	PF24096
• Comflor: Min 60mm trapezoidal decking with 70mm topping)	PP-R pipes				
	DN90mm PP-R pipe	-/120/120	AGNI-Board backing	AP-156	PF24123
	PVC-U pipes				
	DN32mm PVC-U pipe	-/120/120	AGNI-Board backing	AP-158	PF24123
	DN50mm PVC-U pipe	-/120/120	AGNI-Board backing	AP-158	PF24123
	DN80mm PVC-U pipe	-/120/120	AGNI-Board backing	AP-158	PF24123
	DN100mm PVC-U pipe	-/120/120	AGNI-Board backing	AP-158	PF24123
	DN 50mm flexible conduit with up to 6 x TPS cables	-/120/120	AGNI-Board backing	AE-159	PF24123
	• Comflor: Min. 80mm trapezoidal decking with 70mm topping	AC Bundle			
1 x PE pair coil + 1 x DN20mm condensate pipe + 1 TPS cable		-/120/90	AGNI-Seal	AE-123	PF24098
PVC-U pipes					
DN32mm PVC-U pipe		-/120/120	AGNI-Seal	AP-121	PF24098

The AGNI-Sleeve[®] Application Range

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
<ul style="list-style-type: none"> • Comflor: Min. 80mm trapezoidal decking with 70mm topping • Comflor: Min. 80mm trapezoidal decking with 70mm topping 	DN50mm PVC-U pipe	-/120/120	AGNI-Seal	AP-121	PF24098
	DN65mm PVC-U pipe	-/120/120	AGNI-Seal	AP-121	PF24098
	DN80mm PVC-U pipe	-/120/120	AGNI-Seal	AP-121	PF24098
	DN100mm PVC-U pipe	-/120/120	AGNI-Seal	AP-121	PF24098
	PP-R pipes				
	DN90mm PP-R pipe	-/120/120	AGNI-Seal	AP-124	PF24098
	PVC-U conduit pipes				
	DN50mm flexible conduit with 6 x TPS cables	-/120/120	AGNI-Seal	AP-122	PF24098
<ul style="list-style-type: none"> • Min 100mm CLT wall • Min 100mm CLT wall 	PEX pipes				
	DN16mm PEX pipe	-/60/60	AGNI-Seal	AP-096	PF24086
	DN25mm PEX pipe	-/60/60	AGNI-Seal	AP-096	PF24086
	PVC-U conduit pipes				
	DN 25mm flexible conduit with up to 3 x TPS cables	-/60/60	AGNI-Seal	AE-095	PF24086
	PVC-U pipes				
	DN 80mm PVC-U pipe	-/60/60	AGNI-Seal	AP-094	PF24086
	DN 80mm PVC-U pipe	-/60/60	AGNI-Seal	AP-096	PF24086

The AGNI-Sleeve[®] Application Range

SUBSTRATE	SERVICE (s)	FRL	OTHER AGNI-PRODUCTS	AGNI-SYSTEM #	COMPLIANCE REFERENCE
<ul style="list-style-type: none"> • 1 layer of 13mm & 1 layer of 16mm FR plasterboard ceiling • 1 layer of 13mm & 1 layer of 16mm FR plasterboard ceiling 	PVC-U pipes				
	DN25mm PVC-U pipe	-/60/60 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AP-196	PF25003
	PVC-U conduit pipes				
	DN25mm PVC-U conduit with up to 8xOptic cables	-/60/60 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AE-195	PF25003
	Copper/steel pipes				
	DN25mm copper pipe	-/60/30 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AP-194	PF25003
	DN50mm copper pipe	-/60/30 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AP-194	PF25003
	DN100mm copper pipe	-/60/45 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AP-194	PF25003
	DN60mm steel pipe	-/60/45 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AP-193	PF25003
	Electrical cables				
	4 x TPS cable	-/60/60 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AE-190	PF25003
	4 x Data cable	-/60/60 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AE-192	PF25003
	4 x Alarm cable	-/60/60 RISF 60min	AGNI-Seal AGNI-Straps AGNI-Shield	AE-191	PF25003