

# FIREFLYMortar Systems Update

## FIREFLYMortar Report FAS230181 RIR1.2A

The updated FIREFLYMortar report is now available to passive fire professionals throughout Australia and New Zealand. This comprehensive update features an expanded range of passive fire systems, providing solutions for various trades, and includes services such as cable trays, conduits, cables, copper and steel pipes, lagged pipes, mixed bundles, fire dampers and more.

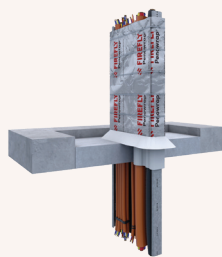
With the addition of new systems, this report offers greater versatility and adaptability for a wide range of applications, especially in hard to access areas with numerous services making installation difficult. FIREFLYMortar is also a viable solution where a solid/trafficable fire seal solution is required. Explore how the latest updates in FAS230181 RIR 1.2A can enhance your fire protection solutions.

### Cable trays | D1 cables

Close-to-edge D1 cable configurations are now offered through FIREFLYMortar, with or without cable trays. For services against fire-rated walls, 3-sided wraps are available to ensure comprehensive fire protection.

These systems showcase true versatility, with options to use FIREFLYMortar or FIREFLYMasticHP and FIREFLY Penowrap lengths adjusted accordingly. With an impressive FRL of -/120/120, these solutions are ideal for diverse applications across different building types.

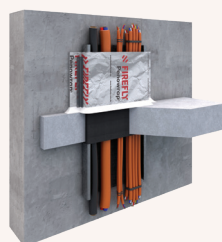
H23 | -/120/120



H25 | -/120/120



H27 | -/120/120



## Cable trays - D2 cables

D2 cable bundles, with or without cable tray, can now be effectively protected using FIREFLYMasticHP. Close-to-edge installations are possible by applying a 50 mm fillet of FIREFLYMastic.

To achieve insulation FIREFLY Penowrap is required on the top side for a 300 mm distance. When installed against a fire-rated wall, FIREFLY Penowrap must be lapped and secured with 25 mm x 25 mm angles for optimal performance.



## Conduits with cables

PVC conduits, single or occurring in bundles of up to 3, can now be protected through FIREFLYMortar by using only FIREFLYMasticHP to achieve an FRL of -/120/120. These solutions offer options of having TPS, Cat5e, Cat6 and RG6 cables within the conduits. Very useful solutions when these penetrations occur in floors within data and telecom rooms and elsewhere.



## Cat5e & fibre optic cables

Two high-performance systems are now available for protecting Cat5e cable bundles (up to 14 cables) and fibre optic bundles (up to 110 cables) using FIREFLYMasticHP.

For fibre optic bundles, applying a fillet of FIREFLYMasticHP ensures a remarkable FRL of -/240/240, delivering robust fire protection for critical services. A welcome addition to the FIREFLYMortar report.



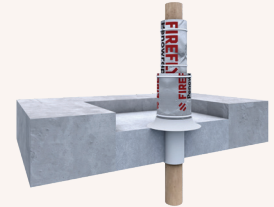
## Copper and steel pipes

Steel pipes up to 115 mm OD can now be treated in FIREFLYMortar using FIREFLYMastic. FIREFLY Penowrap is wrapped for varied lengths of 300 mm and 600 mm, depending on required FRL. The solution is also available for copper pipes up to 50 mm OD. A second layer of FIREFLY Penowrap and fillets keeps these heat magnets in check.

H32 | -/90/90



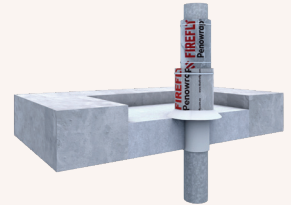
H33 | -/120/120



H34 | -/120/120



H35 | -/120/120



## Various lagged pipes

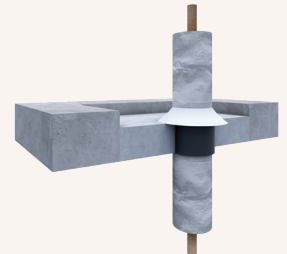
Copper and steel pipes lagged with insulation materials such as foil-coated rockwool, PIR foam, and nitrile rubber can now be effectively firestopped in FIREFLYMortar substrate.

FIREFLYStrap ensures integrity and insulation for up to 120 minutes, providing a reliable solution for a range of applications. A 50 mm x 50 mm fillet of FIREFLYMastic on PIR foam lagged pipe (H37) ensures the insulation is maintained for 120 minutes.

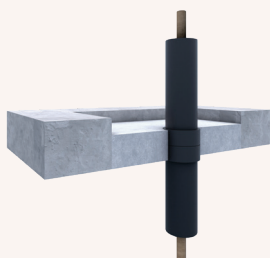
H36 | -/120/120



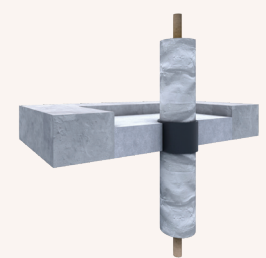
H37 | -/120/120



H38 | -/120/120



H39 | -/120/120

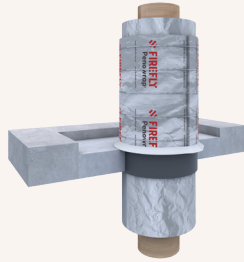


## Rockwool lagged copper and steel pipes

This latest FIREFLYMortar report now includes solutions for rockwool lagged copper and steel pipes protected with FIREFLYStrap. This system provides primary protection with FIREFLYStrap, while secondary protection is achieved through FIREFLY Penowrap combined with FIREFLYMastic fillets.

These configurations deliver impressive FRLs of -/180/180 and -/240/240, ensuring robust fire resistance for chilled water pipework applications.

H40 | -/180/180



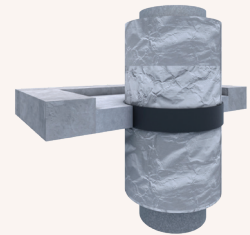
H41 | -/240/240



H42 | -/180/180



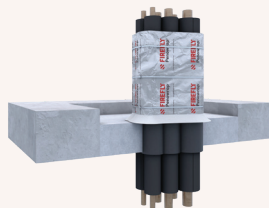
H43 | -/120/120



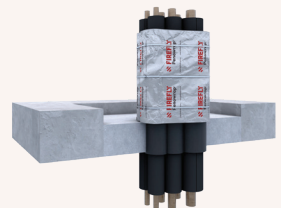
## Nitrile lagged Copper pipes

Bundles of nitrile lagged copper pipes can be fire stopped within FIREFLYMortar using a system of FIREFLYMasticHP and FIREFLY Penowrap to provide FRLs of -/90/90 and -/120/120. Pipe sizes range between 16 mm and 35 mm with insulation thickness of 25 mm or 19 mm. This solves the problem of having to separate pipes into smaller bundles.

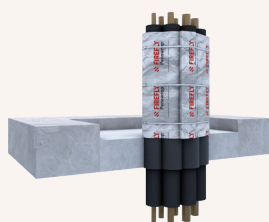
H44 | -/120/120



H45 | -/90/90

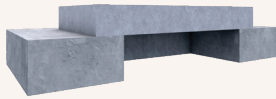
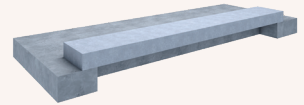


H46 | -/120/120

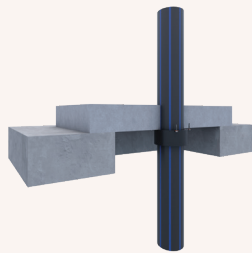


## Blank seals and service penetrations

We have delivered! In response to frequent requests, we now offer 100 mm thick FIREFLYMortar installed in apertures and linear gaps on the top side with an overlap of 100 mm. Make sure to use proper shuttering and damming for the FIREFLYMortar when it is wet, and on curing these systems will provide a solid 120 minutes of integrity and insulation. These blank seals can also incorporate services through them such as the HDPE pipe protected by FIREFLY FRF 100 fire collar as shown below, and a maximum FRL of  $-/120/120$  can be achieved.

**H49** |  $-/120/120$ 

**H50** |  $-/120/120$ 


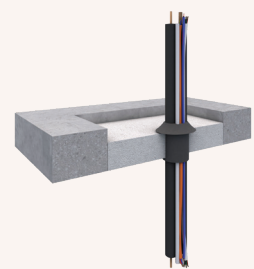
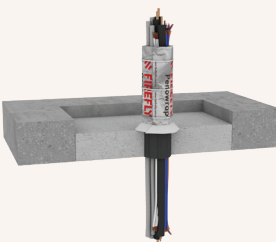
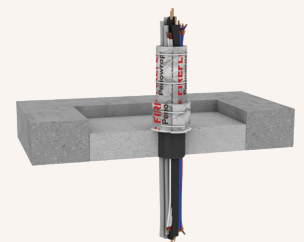
Service penetration  
 through  
 FIREFLYMortar on  
 top side of slab.



## Mixed service bundles

Nitrile rubber pair coils, Cat6 and TPS cables, 6 mm<sup>2</sup> (three core and earth) cables and condensate pipes are services in the HVAC bundles now available in this report. Protected with FIREFLYMasticHP for exceptional integrity and combined with FIREFLY Penowrap, these bundles achieve a range of FRLs suitable for diverse building classes.

**H47** |  $-/120/120$ 

**H51** |  $-/180/180$ 

**H55** |  $-/90/90$ 

**H56** |  $-/120/120$ 


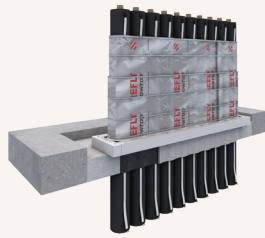
## Up to ten nitrile lagged copper pipes

Exclusively tested for the HVAC industry, achieve an FRL of -/120/120 with our versatile system protecting up to 10 nitrile-insulated copper pipes and flat TPS cables arranged linearly.

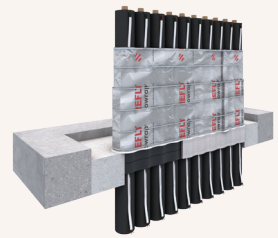
The primary protection of FIREFLYStrap and FIREFLYMasticHP is enhanced by FIREFLYBatt collar and FIREFLY Penowrap. FIREFLYBatt collar can be omitted when installed through a 150 mm thick FIREFLYMortar substrate.

An additional configuration is available for services installed against a fire-rated wall which requires FIREFLY Penowrap to be lapped against the wall.

H52 | -/120/120



H53 | -/120/120



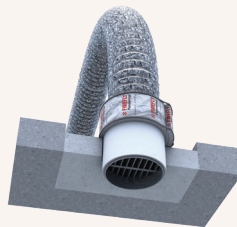
H54 | -/120/120



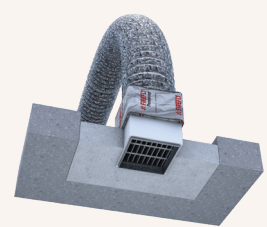
## Intumescent Fire Dampers

In good news for users of Kilargo and Lorient intumescent fire dampers, circular and square dampers can now be installed through FIREFLYMortar. The combination of FIREFLYMastic around the service and FIREFLY Penowrap on top side, up to 150 mm provides a high FRL of -180/180 in FIREFLYMortar.

H57 | -/180/180



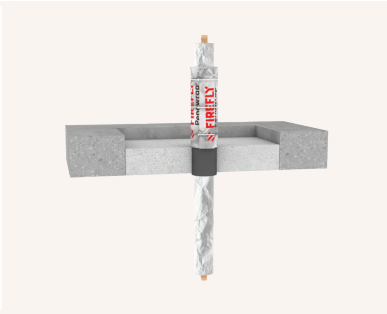
H58 | -/180/180



## Thermobreak and Thermotec lagged pipes

Solutions that contribute to the energy efficiency of a building. Thermobreak and Thermotec insulation lagged pipes can now be fire stopped in FIREFLYMortar. Solutions are available for FRLs of -/90/90 and -/120/120 using only FIREFLYMortar and FIREFLY Penowrap.

H59 | -/90/90



H60 | -/90/90



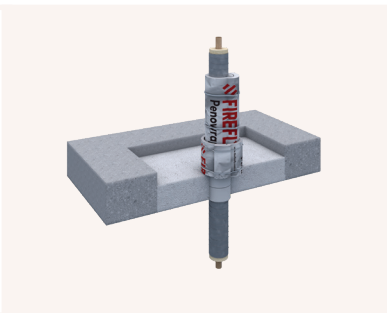
H61 | -/120/120



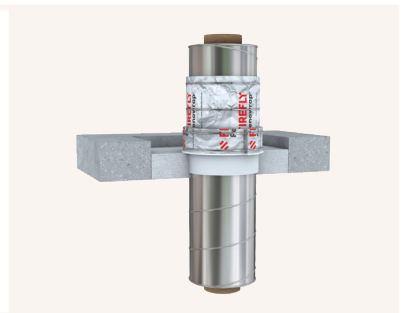
## Pre-insulated copper pipes with steel casing

Pre-insulated copper pipes with steel outer casing can now be installed through FIREFLYMortar, with FIREFLYMastic on the steel casing and FIREFLY Penowrap doubled up at the bottom. This solution provides a solid FRL of -/120/120 for these challenging pipes often encountered in pump rooms and risers of multi-storey buildings.

H62 | -/120/120



H63 | -/120/120



Refer to the following pages for a complete list of new fire stopping systems through FIREFLYMortar released in this update.

**FAS190235 RIR 1.26A | New Systems**

ID	Service	Local FIREFLY protection	FRL
H23	D1 power cables with or without cable tray	FIREFLYMastic+FIREFLYPenowrap	-/120/120
H24	D2 comms cables with or without cable tray	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H25	D1 power cables with or without cable tray	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H26	D2 comms cables with or without cable tray	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H27	D1 power cables with or without cable tray	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H28	PVC conduit with TPS cables	FIREFLYMasticHP	-/120/120
H29	Bundle of 3 PVC conduits with mixed cables	FIREFLYMasticHP	-/120/120
H30	Bundle of up to 14, CAT5e cables	FIREFLYMasticHP	-/240/240
H31	Bundle of up to 110, Fibre optic cables	FIREFLYMasticHP+ FIREFLYMastic	-/240/240
H32	Steel pipe up to 48.7mm OD	FIREFLYMastic+FIREFLYPenowrap	-/90/90
H33	Copper pipe up to 50.8mm OD	FIREFLYMastic+FIREFLYPenowrap	-/120/120
H34	Steel pipe up to 114.9mm OD	FIREFLYMastic+FIREFLYPenowrap	-/120/120
H35	Steel pipe up to 76mm OD	FIREFLYMastic+FIREFLYPenowrap	-/120/120
H36	Foil coated rockwool lagged copper and steel pipes	FIREFLYStrap	-/120/120
H37	Foil coated PIR foam lagged copper and steel pipes	FIREFLYStrap+FIREFLYMastic	-/120/120
H38	Nitrile lagged copper and steel pipe	FIREFLYStrap	-/120/120
H39	Foil coated rockwool lagged copper and steel pipes	FIREFLYStrap	-/120/120
H40	Up to 200mm OD copper pipe with rockwool lagging	FIREFLYStrap+FIREFLYMastic	-/180/180
H41	Up to 350mm OD steel pipe with rockwool lagging	FIREFLYStrap+FIREFLYMastic	-/240/240
H42	Up to 350mm OD steel pipe with rockwool lagging	FIREFLYStrap+FIREFLYMastic	-/180/180
H43	Up to 350mm OD steel pipe with rockwool lagging	FIREFLYStrap	-/120/120
H44	Bundle of 6 Nitrile lagged copper pipes	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H45	Bundle of 6 Nitrile lagged copper pipes	FIREFLYMasticHP+FIREFLYPenowrap	-/90/90
H46	Bundle of 6 Nitrile lagged copper pipes	FIREFLYMasticHP+FIREFLYPenowrap	-/120/120
H47	HVAC bundle	FIREFLYMasticHP	-/120/120
H48	DN100 uPVC pipe	FIREFLY FRF100	-/120/120
H49	Aperture seal	-	-/120/120



ID	Service	Local FIREFLY protection	FRL
H50	Linear gap seal	-	-/120/120
H51	HVAC bundle	FIREFLYMasticHP	-/180/180
H52	Up to 10 x DN32 Copper pipes with Nitrile lagging	FIREFLYStrap+FIREFLYPenowrap+FIREFLYMasticHP+FIREFLYMastic+FIREFLYBatt	-/120/120
H53	Up to 10 x DN32 Copper pipes with Nitrile lagging	FIREFLYStrap+FIREFLYPenowrap+FIREFLYMasticHP+FIREFLYMastic+	-/120/120
H54	Up to 10 x DN32 Copper pipes with Nitrile lagging	FIREFLYStrap+FIREFLYPenowrap+FIREFLYMasticHP+FIREFLYMastic+	-/120/120
H55	HVAC bundle	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/90/90
H56	HVAC bundle	FIREFLYMasticHP+FIREFLYMastic+FIREFLYPenowrap	-/120/120
H57	Circular Intumescent fire damper	FIREFLYMastic+FIREFLYPenowrap	-/180/180
H58	Square Intumescent fire damper	FIREFLYMastic+FIREFLYPenowrap	-/180/180
H59	DN25 copper pipe with Thermobreak Insulation	FIREFLYMasticHP+FIREFLYPenowrap	-/90/90
H60	DN25 copper pipe with Thermotec Insulation	FIREFLYMasticHP+FIREFLYPenowrap	-/90/90
H61	DN25 copper pipe with Thermotec Insulation	FIREFLYMasticHP+FIREFLYPenowrap	-/120/120
H62	Up to 100mm chilled water pipe	FIREFLYMastic+FIREFLYPenowrap	-/120/120
H63	Up to 150mm chilled water pipe	FIREFLYMastic+FIREFLYPenowrap	-/120/120

For further details regarding any of these systems sign up for FIREFLY PFP for desktop or mobile, via our website; or to obtain a copy of the complete report reach out to your FIREFLY Account Manager or contact our customer service team at [sales@tbafirefly.com.au](mailto:sales@tbafirefly.com.au)

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