TBA Textiles Pty Ltd
ABN: 30 161 422 359
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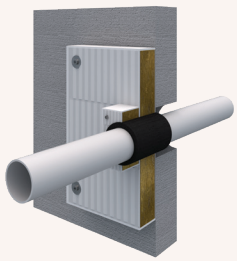
# Systems Update
# Single-Sided Solutions

## 253717 RIR 1.1

Access is a crucial consideration for contractors in firestopping. Installing a compliant firestop system typically requires access to both sides of a wall. However, in many retrofit scenarios, this is not always feasible. For example, in apartment buildings, a common wall between a unit and a corridor may be inaccessible from within the unit if that side houses a kitchen or other restricted area.

At FIREFLY, we prioritise real-world challenges and strive to develop practical solutions. With this in mind, we tested several common firestopping systems installed from one side of the wall only. We are pleased to share these test results, which we believe will provide valuable guidance and benefits to installers throughout the industry.

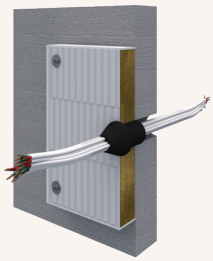
Details as follows.



Up to 1 x DN50 uPVC pipe

**Products**
FIREFLYBatt
FIREFLY HP

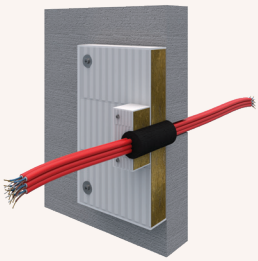
**FRL from both sides**
**V1** | -/60/60 + -/90/90 + -/120/120



Up to 6 x 2C+E 2.5 mm² TPS cables

**Products**
FIREFLYBatt
FIREFLY HP

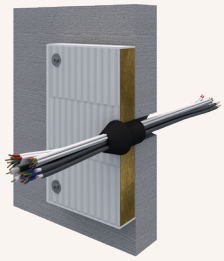
**FRL from both sides**
**V2** | -/60/60 + -/90/60 + -/120/60



Up to 6 x 1.5 mm² 2C fire alarm cables

**Products**
FIREFLYBatt
FIREFLY HP

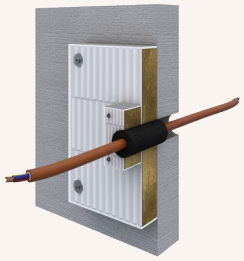
**FRL from both sides**
**V3** | -/60/60 + -/90/90 + -/120/120



Mixed cable bundle of up to: 2 x CAT5e cables + 2 x CAT6 cables + 2 x RG6 cables + 2 x 2F 9/125 Fibre optic cables + 2 x 2C+E 1.5 mm² TPS cables

**Products**
FIREFLYBatt
FIREFLY HP

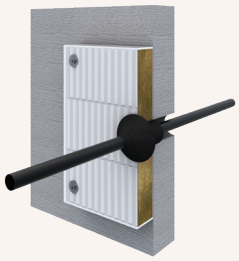
**FRL from both sides**
**V4** | -/60/60 + -/90/90 + -/120/120



Up to 1 x 16 mm² 4C+E power cable

**Products**
FIREFLYBatt
FIREFLY HP

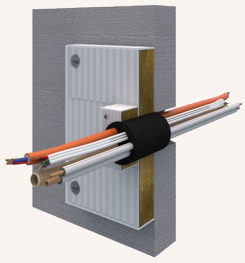
**FRL from both sides**
**V5** | -/60/60 + -/90/60 + -/120/60



Up to 1 x DN20 PE-Xa pipe

**Products**
FIREFLYBatt
FIREFLY HP

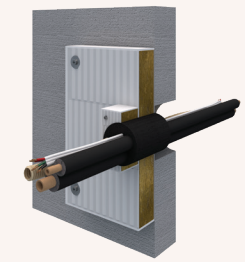
**FRL from both sides**
**V9** | -/60/60 + -/90/90 + -/120/120



Mixed Aircon bundle of up to: 1 x Ardent AS1571 3/8" + 3/4" pair coil copper pipes with 8 mm thick insulation + 1 x 2C+E 2.5 mm² TPS cables + 1 x 18 mm uPVC condensate hose + 1 x 14.5 mm OD (4C x 6 mm² + E x 2.5 mm²) power cable

**Products**
FIREFLYBatt
FIREFLY HP

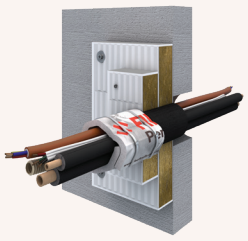
**FRL from both sides**
**V6** | -/60/60 + -/90/60 + -/120/60



Mixed Aircon bundle of up to: 1 x Ardent 3/8" + 5/8" pair coil copper pipes with minimum 19 mm NBR insulation + 2 x 2C+E 2.5 mm² TPS cables + 1 x 18 mm uPVC condensate hose

**Products**
FIREFLYBatt
FIREFLY HP

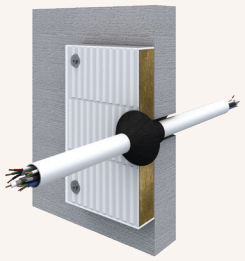
**FRL from both sides**
**V7** | -/60/60 + -/90/90 + -/120/120



Mixed Aircon bundle of up to: 1 x Ardent 3/8" + 5/8" pair coil copper pipes with minimum 19 mm NBR insulation + 2 x 2C+E 2.5 mm² TPS cables + 1 x 18 mm uPVC condensate hose + 1 x 14.5 mm OD (4C x 6 mm² + E x 2.5 mm2) power cable

**Products**
FIREFLYBatt
FIREFLY HP
FIREFLY Penowrap

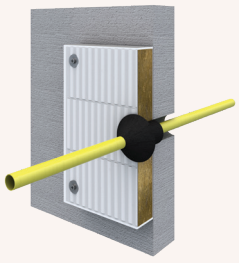
**FRL from both sides**
**V8** | -/60/60 + -/90/60 + -/120/60



1 x 32 mm uPVC conduit with up to: 1 x CAT5e cables + 1 x CAT6 cables + 1 x RG6 cables + 1 x 2F 9/125 Fibre optic cables + 1 x 2C+E 1.5 mm² TPS cables

**Products**
FIREFLYBatt, FIREFLY HP

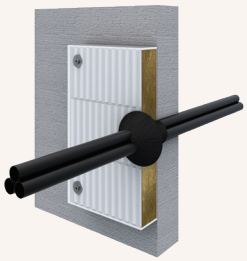
**FRL from both sides**
**V10** | -/60/60 + -/90/90 + -/120/120



Up to 1 x DN25 PE-Xa /Al/PE pipe

**Products**
FIREFLYBatt
FIREFLY HP

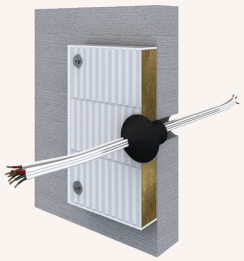
**FRL from both sides**
**V11** | -/60/60 + -/90/60 + -/120/60



Up to 3 x DN20 PE-Xa pipe

**Products**
FIREFLYBatt
FIREFLY HP

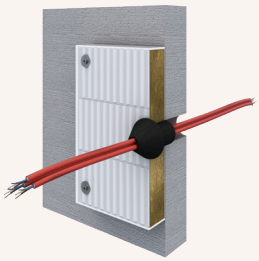
**FRL from both sides**
**V12** | -/60/60 + -/90/90 + -/120/120



Up to 3 x 2C+E 2.5 mm² TPS cables

**Products**
FIREFLYBatt
FIREFLY HP

**FRL from both sides**
**V13** | -/60/60 + -/90/90 + -/120/90



Up to 3 x 1.5 mm² 2C fire alarm cables

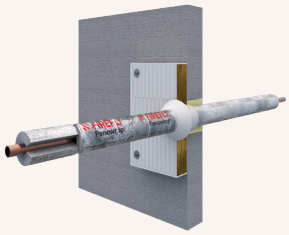
**Products**
FIREFLYBatt
FIREFLY HP

**FRL from both sides**
**V14** | -/60/60 + -/90/90 + -/120/120

Up to 1 x NB40 steel sprinkler pipe

**Products**
FIREFLYBatt
FIREFLYMastic
FIREFLY Penowrap

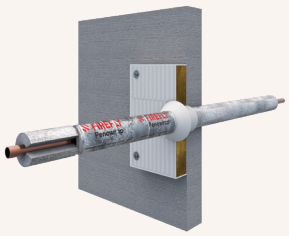
**FRL from both sides**
**V15** | -/60/60 + -/90/60 + -/120/60



1 × 19 mm diameter copper pipe with 1.02 mm wall thickness lagged in 25 mm thick EPS lagging

**Products**
FIREFLYMortar, FIREFLYBatt
FIREFLYMastic,
FIREFLY Penowrap

**FRL from both sides**
**V16** | -/60/60 + -/90/90 + -/120/120



1 × 19 mm diameter copper pipe with 1.02 mm wall thickness lagged in 25 mm thick EPS

**Products**
FIREFLYBatt
FIREFLY Mastic
FIREFLY Penowrap

**FRL from both sides**
**V17** | -/60/60 + -/90/90 + -/120/90

Approved wall systems include:

- Masonry, solid concrete, solid concrete block, AAC panel, AAC brick, AFS Logicwall, AFS Rediwall, and Dincel wall systems (with minimum established FRLs of -/120/120, -/90/90, or -/60/60)
- Speedpanel wall systems (with minimum established FRLs of -/90/90 and -/60/60)

These systems rely on FIREFLYBatt to provide the primary fire protection, with FIREFLYMastic, FIREFLY HP, and FIREFLY Penowrap delivering localised protection where required. Where necessary, aperture sizes within the substrate can be adjusted to compliant dimensions using FIREFLY Mortar.

Contact your FIREFLY Account Manager or our customer service team at sales@tbafirefly.com.au to obtain a copy of this report.