

ALLPROOF
INDUSTRIES

PASSIVE FIRE PROTECTION

BUILDING PRODUCT
INFORMATION SHEET



PLUMBING & ELECTRICAL PENETRATION
FIRE STOPPING PRODUCTS

**BUILDING
PERFORMANCE**

CLASS 1

V1.0 | 27/10/2023

PASSIVE FIRE PROTECTION

Plumbing & Electrical penetration fire stopping products.

Product description and intended use:

Passive fire protection (PFP) products offered from Allproof are designed to contain a fire in the compartment of origin by sealing a service penetration, thus limiting the spread of fire and smoke for a limited period. PFP products incorporate intumescent which reacts to heat by expanding in volume with significant pressure to seal penetrations in the substrate as the service melts/combusts. The intumescent char formed is a poor conductor of heat, retarding heat transfer and retaining the integrity and insulation of service penetrations through otherwise fire-resistance rated walls, floors, or ceilings.

Product identifier:

Codes containing the below identifiers, codes additionally include size and finish identifying elements.

Passive Fire Protection Products	
ALLFC	FW
CIFC	FB
CIFC L	FBINT
CIFW	FireCaulk
DIFC	MAS

Place of manufacture:

Products are designed and manufactured in New Zealand using some imported componentry from overseas outsourced production. The design and intellectual property of these products, unless stated otherwise, belong to Allproof Industries NZ Ltd. who is therefore considered the manufacturer.

Allproof Industries NZ Ltd.

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Relevant Building Code Clauses:

NZBC C/AS2	Protection from fire
NZBC B2	Durability
NZBC F2	Hazardous Building Materials
AS 1530.4:2014	Methods for fire tests on building materials, components and structures - Fire resistance test of elements of construction
AS 4072.1:2005	Components for the protection of openings in fire-resistant separating elements - Service penetrations and control joints

Statement on how the building product is expected to contribute to compliance:

NZBC C/AS2 C3.1, C3.2 and C3.3: Allproof PFP products are designed to limit the spread of fire between property from its origin by sealing service penetrations in the separating elements of fire cells. The Technical Literature gives the fire resistance ratings (FRRs) for the Allproof Passive Fire Protection Products that can be achieved to provide the FRR's as determined by NZBC Acceptable Solutions C/AS1, C/AS2 and NZBC Verification Method C/VM2.

NZBC C/AS2 4.4 Fire Stopping: Allproof PFP products have been tested in accordance with Appendix C C5.1 for fire stopping. Detailed information on the tested prototypes is available in Allproof's PFP literature to assist with the correct product selection and install details. When installed as per documentation Allproof PFP products will provide an FRR consistent with the published results and therefore, if selected correctly, no less than the separating element.

NZBC B2: Allproof Passive Fire Protection Products meet code compliance with the NZBC Clause B2.3.1 (b), 15 years.

NZBC F2.3.1 Allproof Passive Fire Protection Products does not present a health hazard to people.

Limitations of use of the building product:

As per requirements set out in NZBC C/AS2 Clause 4.4 Allproof fire stopping products installation "shall be identical to those of the prototype used in tests to establish their FRR".

Allproof passive fire systems are required to be used in closed, internal spaces, protected from excessive moisture, solvents, oxidising agents, acids and alkalis. They should not be exposed to UV light in service.

Separation or protection must be provided to Allproof Passive Fire Protection Products from heat sources such as fireplaces, heating appliances and chimneys. Part 7 of NZBC Acceptable Solution C/AS1 and C/AS2, and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

Design requirements that would support the use of the building product:

All service penetrations to fire cells and fire separation systems are required to comply with all the designed fire integrity of the specified Allproof Industries systems.

As per requirements set out in NZBC C/AS2 Clause 4.4 Allproof fire stopping products installation "shall be identical to those of the prototype used in tests to establish their FRR". Other building and design elements need to be selected with this in mind.

Ensure an appropriate separation of other systems from the PFP product is followed such as keeping pipe lagging 50mm away from fire stopping device.

Ensure products are protected from the elements such as moisture and corrosive substances (i.e. chemicals, sea spray) before and once installed throughout the entire construction.

To satisfy the requirements of NZBC C6 Structural Stability, designers must ensure that fire rated elements are supported by building elements having at least the same FRR as the fire rated element they are supporting.

Installation requirements:

Refer to all Allproof installation drawings and guides on [allproof.com](https://www.allproof.com).

Product not to be modified in any way that will compromise performance.

Label all fire rated service penetrations to AS 4072.1. Each passive fire protection installation to have a permanently fixed tag or label with reference information containing the following information:

- *Manufacturer's name*
- *Name and address of installer*
- *Date of installation*
- *System installed*
- *FRR*
- *Location of penetration on site*
- *Sign off by installer*

To ensure correct identification and avoid likelihood of damage Allproof Passive Fire Protection Products must be stored in a clean and dry location in their original packaging prior to installation.

Maintenance requirements:

Allproof Passive Fire Protection Products will not normally require maintenance. However, if damage occurs to the installation, repairs or replacement of the product must be carried out to ensure the integrity of the fire rated system.

Following the buildings maintenance schedule inspect fire rated systems incorporating Allproof Passive Fire Protection Products. If deterioration of the system is identified, then repair or replacement must be undertaken to ensure that the required FRR is maintained.

Is the building product/building product line subject to warning or ban under section 26?:

No