

Class 2

Building Product Information Sheet

Version 1

December 2023

Product Name

Rediwall

Product description and its intended use

AFS Rediwall is a permanent formwork system for internal and external loadbearing and non-loadbearing reinforced concrete walls with structural, fire, weatherproofing and acoustic performance characteristics.

AFS Rediwall comprises:

- Interlocking PVC panel extrusions as permanent formwork, and associated PVC accessories.
- Fibre cement sheet or PVC end closures.
- Reinforcing steel.
- Concrete fill.

AFS Rediwall types are as follows, the numerical values representing the thickness of the wall in millimetres:

1. RW110C Single Reinforcement
 2. RW156C Single Reinforcement
 3. RW200C Single or Double Reinforcement
 4. RW256S Double Reinforcement
 5. RW275S Double Reinforcement
 6. RW300S Double Reinforcement
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Legal and trading name of manufacturer

AFS Systems Pty Ltd

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Legal and trading name of importer

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Relevant Building Code Clauses

B1 Structure – B1.3.1, B1.3.2, B1.3.3 (b, c, f, i, j, m), B1.3.4

B2 Durability – B2.3.1 (a), B2.3.2 (a, b)

C3 Fire affecting areas beyond the fire source – C3.4 (a), C3.6

C6 Structural stability – C6.2

F2 Hazardous building materials – F2.3.1

G6 Airborne and impact sound – G6.3.1

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

B1 - Rediwall is an engineered system, with specifications provided by a certified structural engineer. Please refer to the Rediwall Design Guide for further information including design tables and limitations.

B2 - Once constructed, Rediwall does not contribute to the structural capacity of the wall which acts as a normal concrete structure. When used and constructed in accordance with the design guide instructions, the Rediwall system complies with B2.

C3 - Once core filled with concrete, Rediwall achieves a fire rating of at least 240/240/180.

C6 - Once core filled with concrete, Rediwall achieves a fire rating of at least 240/240/180.

F2 – Rediwall consists of PVC and fibre cement components which are inert substances.

G6 - Only the 200mm thick panels and above meet or exceed 55STC acoustic ratings for intertenancy walls. Additional strapping and lining can be used to increase the acoustic rating if needed.

Limitations on the use of the product

Rediwall is not a waterproof system, although it has been tested and passed for water pressure up to 6m of head pressure. This means in some applications Rediwall can be used as a retaining wall without the need for a waterproofing membrane. However, in habitable spaces we always require a peel and stick membrane. A heat applied membrane cannot be used with Rediwall.

The longest panel length that can be produced in the factory is 6.0m. If the wall height required is longer than this, please use our H-joiner component to extend the wall height.

Not all components are available for all wall thicknesses. Please contact us to discuss this in further detail if required.

Over-cladding of Rediwall has the following limitations:

- a. Brick veneer shall be structurally supported independently to Rediwall, ie. Not suspended off Rediwall or built off shelf angles fixed to Rediwall.
- b. Brick veneer ties shall comply with the requirements of NZBC
- c. Mechanical fixings shall not penetrate all the way through Rediwall
- d. Direct-stick and mechanically fixed cladding systems that are suspended off Rediwall shall not exceed 32 kg/m²

Additional work will be required to Rediwall to comply with thermal resistance requirements. This can be achieved through exterior or interior thermal insulation.

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

Please refer to our extensive design guides for information on this. These guides include information on interior and exterior design, engineering design tables, and other trade coordination.

Installation Requirements

Please refer to our installation guide for information on this. This guide includes information on erection of Rediwall panels, installation of Rediwall accessories, reinforcing placement, and concrete placement.

Maintenance Requirements

We have no maintenance requirements for Rediwall.

Is the building product subject to warning or ban under section 26 of the Building Act 2004?

No