

SYMONITE REYNOBOND® FR EXTERNAL CLADDING SYSTEM



PURPOSE

The Symonite Reynobond® FR External Cladding System (the system) is intended for use as an external wall cladding system.

SYMONITE REYNOBOND® FR CLADDING SYSTEM EXPLAINED

The system comprises the Reynobond® FR panel fixed using the Symonite WAB Extrusion Fixing System over a drained and ventilated cavity.

Reynobond® FR is a composite material consisting of two 0.5 mm pre-coated aluminium sheets bonded onto both sides of a mineral core.

The system when installed as part of a specified external wall assembly, has been fully tested to:

- › NFPA 285 (spread of fire), and

- › E2/VM1 & AS/NZS 4284:2008 (external moisture).

The tested external wall assembly comprised:

- › timber framing or non-structural timber infill walls;
- › a non-combustible insulation;
- › a non-combustible 6mm, rigid air barrier;
- › flashing tape that meets the criteria of AC 148 or AC 148:2001;
- › plasterboard internal lining.



For further assistance please contact:

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www.symonite.co.nz



SCOPE AND LIMITATIONS OF USE

| SCOPE | LIMITATIONS |
|---|---|
| Location In all wind zones up to and including extra high as defined in NZS 3604:2011, or a maximum design differential ultimate limit state (ULS) of 3.6kPa. Any proximity to relevant boundary. In all corrosion zones as defined in NZS 3604:2011. | › Where the wind zone exceeds a design wind ULS of 2.5kPa then the wall assembly is to be in accordance with the assembly that was tested to AS/NZS 4284:2008. › Where wall is to be within 1m of the relevant boundary then the external wall assembly is to be in accordance with the assembly that was tested to NFPA285. › The system cannot be used where adverse microclimatic conditions apply as set out in paragraph 4.2.4 of NZS 3604:2011. |
| Building In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work. Any building height. | › Up to a maximum wind design ULS 3.6kPa. › For an existing building where the building height is greater than 10m or the design wind ULS is greater than 2.5kPa the primary structure must be assessed by a chartered professional engineer. |
| Up to and including importance level 4 as defined in clause A3 NZ Building Code. On buildings of any proximity to a relevant boundary. | › Where the importance level is 2 or greater and the building height is greater than 10 m and where upper floors contain sleeping uses or other property the external wall must be constructed to the NFPA 285 tested assembly. › Where closer than 1m to a relevant boundary, the external wall must be constructed to the NFPA 285 test assembly. |

CONDITIONS OF USE

Where reliance on the NFPA285 or AS/NZS 4284 test results is required, the external wall assembly elements must meet the same performance requirements as for the test assembly.

No substitutions for the Symonite Reynobond® FR External Cladding and WAB extrusion fixing system are permitted.



USEFUL INFORMATION

For information on the design, specification, installation, and maintenance of the system, and for our warranty, refer to www.symonite.co.nz. Test reports are available on request.

VERSION:

PERFORMANCE CLAIMS

When installed in accordance with all Symonite requirements, the Symonite Reynobond® FR External Cladding System will comply with or contribute to compliance with the following performance claims:

| NZ Building Code clauses | BASIS OF COMPLIANCE | |
|--|--|---|
| | Compliance statement ¹ | Demonstrated by |
| B1 Structure B1.3.1, B1.3.2 B1.3.3 (a, f, h, j, q) B1.3.4 | ALTERNATIVE SOLUTION BRANZ Appraisal No. 528 [2017] | <ul style="list-style-type: none"> › BRANZ completed a technical assessment of Reynobond® FR panels when issuing their appraisal. Refer paras 10.1 - 10.5 and paras 15.1 - 17.7. › BRANZ is IANZ accredited. |
| B2 Durability B2.3.1 (a) B2.3.2 (b) | ALTERNATIVE SOLUTION BRANZ Appraisal No. 528 [2017] | <ul style="list-style-type: none"> › BRANZ completed a technical assessment of Reynobond® FR panels when issuing their appraisal. Refer paras 10.1 - 10.5 and paras 15.1 - 17.7. › BRANZ is IANZ accredited. |
| C3 Fire affecting areas beyond the fire source C3.5 C3.7(b & c) | ACCEPTABLE SOLUTION C/AS2-C/AS6, para 5.8.2. NFPA285 test criteria passed. | <ul style="list-style-type: none"> › Paragraph 5.8.2 states: requirements of paragraph 5.8.1 do not apply if the entire wall assembly has been tested in accordance with NFPA285 and has passed the test criteria. › INTERTEK (Pennsylvania) carried out the NFPA285 test. › Intertek is accredited by the International Accreditation Service (IAS). |
| E2 External Moisture E2.3.2, E2.3.5, E2.3.7 (a, b, c) | VERIFICATION METHOD E2/VM1 & AS/NZS 4284:2008 | <ul style="list-style-type: none"> › Façade Lab carried out the testing as reported in: › Report No.14/06B, dated July 2014, and › Report No.14/06A, dated July 2014. › BRANZ reviewed the test reports and relied upon them when issuing their appraisal. Refer paras 13.1 - 13.7 and paras 15.1 - 17.7. › Façade Lab is IANZ accredited. |
| F2 Hazardous Building Materials F2.3.1 | ALTERNATIVE SOLUTION BRANZ Appraisal No. 528 [2017] | <ul style="list-style-type: none"> › BRANZ completed the technical assessment when issuing their appraisal. Refer paras 15.1 - 17.7. › BRANZ is IANZ accredited. |

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

The following information was relied upon to prepare this pass™

- › BRANZ Appraisal No. 528 [2017] *Symonite Cladding System*
- › Façade Lab Test Report No. 14/06 [July 2014] *E2/VM1*
- › Façade Lab Test Report No. 14/06A [July 2014] *AS/NZS 4284:2008*
- › INTERTEK Ref No.18506.01-121-24-R1 [Nov 2018] *NFPA285*
- › MBIE, Acceptable Solutions *C/AS2 - C/AS6*
- › MBIE, Verification Method *E2/VM1*
- › AS/NZS 4284:2008 *Testing of building facades*
- › NFPA285. *Method for Evaluation of fire propagation characteristics of exterior non-load-bearing wall assemblies containing combustible components*
- › Reynobond®/Reynolux® [December 2016] *Technical Literature: Aluminium composite panels and sheets.*



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B Heald

Managing Director

Signed on behalf of Symonite Panels Ltd:



By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.

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