



Certificate of Conformity



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Certificate number: CM 30071 Rev 4

THIS TO CERTIFY THAT

FIRESHIELD Timber Intumescent Coating Systems

Type and/or use of product:

FIRESHIELD Timber Intumescent Coating Systems for application onto timber-based substrates with a minimum density of 338 kg/m³ and a minimum thickness of 8 mm and used on internal wall and ceiling lining applications.

FIRESHIELD Timber Intumescent Coating Systems will achieve Group 1 rating and an average specific extinction area of less than 250 m²/kg

Description of product:

FIRESHIELD Timber Intumescent Coating Systems refers to three different water based intumescent coating systems:

- Fireshield® TimberClear 1FR and Fireshield® TimberClear Top Coat – clear coating;
- Fireshield® TimberWhite 2FR – white pigmented coating;
- Fireshield® TimberWhitewash – semi-transparent white pigmented coating

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2019 A1

	Volume One including amendment 1		Volume Two including amendment 1	
Performance Requirement(s)	CP4	Safe conditions for evacuation		
Deemed-to-Satisfy Provision(s):				
State or territory variation(s):				

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 12/12/2021

Date of expiry: 12/09/2022



Limitations and conditions:	Building classification/s:
The Fireshield Timber Clear 1FR must be applied to a timber substrate at a mass rate $\geq 300\text{g/m}^2$ and be coated with Fireshield Timber Clear 1FR Top-Coat applied at a mass rate $\geq 60\text{g/m}^2$. Both products when applied comprise a tested two coat paint system for meeting the BCA. The two coated system must not be further coated with any other product.	Class 2 to 9
<p>Fireshield Timber White 2FR is a single coat paint systems and must be applied to a timber substrate at a mass rate $\geq 300\text{g/m}^2$.</p> <p>Fireshield Timber Whitewash is single coat paint systems and must be applied to a timber substrate at a mass rate $\geq 300\text{g/m}^2$.</p> <p>Eventhough Fireshield Timber White 2FR and Fireshield Timber Whitewash are generically single coat paint systems, they may be coated with protective top-coat(s) which have been tested by an Accredited Testing Laboratory in accordance with ISO 5660.1 or EN 13823 to verify the Group 1 rating and subject to approval of Fire Protection Coatings Pty Ltd.</p>	Class 2 to 9
Applications may have a stain or sealer undercoat subject to approval of Fire Protection Coatings Pty Ltd and testing by an Accredited Testing Laboratory in accordance with EN 13823 to verify the Group 1 rating.	Class 2 to 9
Storage, application and maintenance must be done in accordance with Fireshield Australia® Technical data Sheets for the product concerned (refer to Appendix A, A3 and Appendix A, A5)	Class 2 to 9
Walls and/or ceilings linings with timber base substrates coated with FIRESHIELD Timber Intumescent Coating Systems, must be listed as an essential fire safety measure and must appear on the Annual Fire Safety Statement in NSW or interstate equivalent and must be inspected annually. It is essential to ensure that coating has not been removed, covered or in any way tampered with.	Class 2 to 9
An annual inspection of the insitu condition of the intumescent paint application must be undertaken by a Fireshield® registered applicator or a suitably qualified and experienced practitioner with a full understanding of the Fireshield® coating systems and Australian surface finish requirements as per the maintenance regime in accordance with the Technical Data Sheets prepared by Fireshield Australia® for the product concerned (refer to Appendix A, A3 and Appendix A, A5).	Class 2 to 9
Acceptable conditions for product use must be consistent with the product Technical Data sheet as prepared by Fireshield Australia® (refer to Appendix A, A3 and Appendix A, A5).	Class 2 to 9
In the area where FIRESHIELD Timber Intumescent Coating Systems is present, it is required to install at least one product label on or in close proximity to the coated surface and a large product description label in the switchboard cupboard serving the coated area, in accordance with document AI-FSANZ02.	Class 2 to 9
Any necessary repairs are to be carried out in accordance with document AI-FSANZ02.	Class 2 to 9
When applied to a non-perforated timber element, only the exposed surface (surface to view) and any exposed edges are required to be coated. This requirement applies regardless of whether the timber element is affixed directly to a substrate or an air gap is created behind the timber element.	Class 2 to 9
Perforations made on treated timber shall be re-coated unless the perforation is made such that a non-combustible item (such as a nail or screw) fills the hole.	Class 2 to 9

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<p>When applied on a perforated timber element (perforation made prior to application of the coating) and the timber element is fixed in such a manner that an air gap is created behind the timber element, the following shall be coated:</p> <ul style="list-style-type: none"> a) The exposed surface (ie: - surface subject to direct heat) including any exposed edges; and b) The inside surface of the perforation(s) (ie: - the thickness of the timber element) and c) The entire non-exposed surface of the timber element. 	Class 2 to 9
<p>When applied to a perforated timber element (perforation made prior to application of the coating) and the non-exposed surface is provided with a Group 1 (or better) material, the following shall be coated: -</p> <ul style="list-style-type: none"> a) The exposed surface (ie: - surface subject to direct heat) including any exposed edges; and b) The inside surface of the perforation(s) (ie: - the thickness of the timber element) and c) The non-exposed surface of the timber element for a distance of 100mm measured in any direction from the edge of the perforation opening. 	Class 2 to 9
<p>The timber elements to be coated may be directly attached to a non-combustible substrate as defined by the BCA or meet the material classification requirements of EN 13501 for A1 or A2-s1-d0 (pursuant to SP Certificates No.'s 0086/99 and SC0507-14) subject to the substrate having density $\geq 338\text{kg/m}^3$ and thickness $\geq 6\text{mm}$.</p>	Class 2 to 9
<p>Post treatment alterations, fixings, attachments, or penetrations to meet the relevant BCA Deemed-to-Satisfy Provisions including that fixings penetrating the treated timber are to be non-combustible and any exposed timber is to be treated accordingly.</p>	Class 2 to 9
<p>Product application must be undertaken or supervised by a professional applicator that has been trained and approved registered by Fireshield or a Fireshields Distributor/Nominee</p>	Class 2 to 9
<p>In case of off site application, thorough inspection and repair of any damages prior to installation in accordance with the AI- FSANZ02 must be undertaken</p>	Class 2 to 9
<p>Prior to the use of solvents, detergents or the like for cleaning, Fireshield or a Fireshield Distributor must be contacted with respect to the appropriateness of using such cleaning products.</p>	Class 2 to 9

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

See type and/or use of product on page 1

A2 Description of product

Fireshield® TimberClear 1FR with a minimum coating mass of 300g/m². Fireshield TimberClear 1FR must always be protected with TimberClear Top Coat with a minimum coating mass of 60g/m².

Fireshield® TimberWhite 2FR is a matt, white, single-coat intumescent system with a minimum coating mass of 300g/m².

Fireshield® TimberWhitewash is a matt, semi-transparent, single-coat intumescent system with a minimum coating mass of 300g/m².

A3 Product specification

Refer to:

- TimberClear 1FR (TD-FSTCAU-03 , Dated: 03/12/2019)
- Top Coat Matt & Low Sheen (TD-FSTOPAU-06 , Dated: 09/04/2020)
- TimberWhite 2FR (TD-FSTWU02 , Dated: 30/09/2019)
- Timber Whitewash (TD-FSTWWAU-03 , Dated: 09/04/2020)

A4 Manufacturer and manufacturing plant(s)

Protega AB

Verkstadsgratan 6B

SE-231 66 Trelleborg

A5 Installation requirements

Installation must be undertaken in accordance with Fireshield Application Guide (AI-FSANZ02, Dated: 23/08/2019) and the documents referenced in A3

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2019 including Amendment 1:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
CP4	Combination of A2.2 (2)(a), (2)(b)(ii), (2)(c) and (2)(d)	Combination of A5.2 (1)(d), (1)(e) and (1)(f)	1 to 17

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2019 including Amendment 1:

Ref	Author	Reference	Date	Description	NATA Registration
1	STEPHEN GRUBITS & ASSOCIATES	2019/274 R1.5	04-09-2019	Fireshield Timber Intumescent Range of Products	
2	SP Technical Research Institute of Sweden	5P08305	20-11-2015	Fire test according to EN 13823 (SBI Method) and EN ISO 11925-2 (Novatherm 2FR)	SWEDAC 1002
3	SP Technical Research Institute of Sweden	5P08305	20-11-2015	Fire test according to EN 13823 (SBI Method) and EN ISO 11925-2 (Novatherm 1FR + Novatherm 1FR Top-Coat).	SWEDAC 1002
4	SP Technical Research Institute of Sweden	5P08305-1	20-11-2015	Reaction to fire classification report (Novatherm 1FR + Novatherm 1FR Top-Coat).	SWEDAC 1002
5	SP Technical Research Institute of Sweden	5P08305-3	20-11-2015	Reaction to fire classification report (Novatherm 2FR).	SWEDAC 1002
6	RISE Research Institutes of Sweden	Not Provided	19-06-2019	European Reaction to fire classification; correlation between EN material Classifications and BCA Group Numbers (eg: B-s1-d0 ⇒ Group 1).	
7	RISE Research Institutes of Sweden	Not Provided	18-03-2019	Elucidation and identification of various commercial product names within SP Certificates No.'s 0086/99 and SC0507-14.	
8	Fireshield	AI-FSANZ02	23-08-2019	Application Guide	
9	Fireshield	TD-FSTCAU-03	03-12-2019	TimberClear 1FR	
10	Fireshield	TD-FSTOPAU-06	09-04-2020	Top-Coat Matt & Low Sheen	
11	Fireshield	TD-FSTWAW-02	30-09-2019	TimberWhite 2FR	
12	Fireshield	TD-FSTWWAW-03	09-04-2020	Timber Whitewash	
13	BRANZ	FT5837-TT	01-12-2015	Cone Calorimeter test to AS/NZ 3837:1998 for NZBC Verification Method C/VM2 Appendix A and NCC Specification C1.10 Performance of Fireshield 1FR Intumescent coating + Fireshield 1FR Top-Coat on 9mm thickness Western Red Cedar.	IANZ 37
14	BRANZ	FT5837-TT – Issue 2	17-02-2017	Cone Calorimeter test to AS/NZ 3837:1998 Fireshield 1FR Intumescent coating + Fireshield 1FR Top-Coat on 9 - 13mm thickness Western Red Cedar.	IANZ 37
15	BRANZ	FH6086-1-50-1	19-12-2016	Pine 2FR 230 WFT Summary Sheet only.	IANZ 37
16	SP Technical Research Institute of Sweden	Certificate No. SC0507-14	13-12-2016	Product identification, substrate application and production control certificate.	SWEDAC 1002
17	SP Technical Research Institute of Sweden	Certificate No. 0086/99	09-05-2016	Product identification, substrate application and production control certificate.	SWEDAC 1002

The Certificate Holder has chosen not to make the above identified evidence of compliance publicly available, due to the documents being considered commercial in confidence.