

# Australian Building Code Compliance

## Residential - Class 2 - 9 Construction

WeatherTex complies with BCA requirements and can provide relevant documentation to the following sections when required.

### Product Description

9.5mm thick WeatherTex Hardboard Cladding is designed for residential and light commercial type buildings which have a maximum of four stories\*. WeatherTex is an Australian made, reconstituted hardwood, high density fibreboard manufactured in accordance with AS1859.4 Wet Processed Fibreboard (HB.E).

WeatherTex Range:

- Traditional Lapped Weatherboards
- Selflok Weatherboards
- Primelok Weatherboards
- Weathergroove Architectural Panels
- EcoWall Architectural Panels
- Rubix Architectural Panel

Cladding systems incorporate internal and external corner accessories, joiners and appropriate flashings for all openings and penetrations in accordance with the National Construction Code.

WeatherTex pre-primed products are produced with a factory primer designed to be finished with a top coat paint system. The WeatherTex Natural Range is designed to be installed either as a raw timber finish or coated with an appropriate decking stain system.

### Fit for Purpose and Compliance with the Building Code

The following sections lists the performance requirements of the Australian Building Code for Wall Cladding and provides a summary of relevant sections of the building code and verification documents available for Class 2 to 9 construction.

#### **PART C1 FIRE RESISTANCE & STABILITY**

##### **Spec C1.1: FRL Requirements for Internal and External Walls**

For internal or external walls required to be fire resisting, WeatherTex Cladding may be used in conjunction with deem-to-comply systems in the building code or rated systems in the WeatherTex Installation Manual for 30/30/30, 60/60/60, 90/90/90 and 120/120/120 FRL walls.

##### **Additional for Spec C1.1 - 3.1, 4.1 and 5.1**

WeatherTex complies with Spec C1.1 - 3.1, 4.1 and 5.1 and may also be used in Type A and Type B Fire-Resisting Construction under the following concessions:

##### **Type A Fire-Resisting Construction - Spec C1.1 - 3.10 Concession**

Class 2 or 3 buildings with a rise in storeys of not more than 3 need not comply with Clause 3.1(d) of Specification C1.1 and the requirements of C1.9(a), (b) and C2.6 for non-combustible material, if it is constructed using timber framing throughout or non-combustible material throughout or a combination of these provided any insulation installed in the cavity of a wall required to have an FRL is non-combustible and the building is fitted with an automatic smoke alarm system complying with Specification E2.2a.

Class 2 or 3 buildings with a rise in storeys of not more than 4 may have the top three storeys constructed in accordance with the above paragraph provided the design conditions of Spec C1.1 - 3.10 (b) are met.

##### **Type B Fire-Resisting Construction - Spec C1.1 - 4.3 Concession**

Class 2 or 3 buildings with a rise in storeys of not more than 2 need not comply with Clause 4.1(e) of Specification C1.1 and the requirements of C1.9(a) and (b) for non-combustible materials, if it is constructed using timber framing throughout or non-combustible material throughout or a combination of these, provided any insulation installed in the cavity of a wall required to have an FRL is non-combustible and the building is fitted with an automatic smoke alarm system complying with Specification E2.2a.

Spec C1.1 - 4.3 (b) and (c) offer additional concessions for FRL requirements of 2 storey Class 2 & 3 buildings as applicable.

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### **Spec C1.8 - Clause 3.4 Walls Generally**

Clause 5(a) Material Test – Weathertex is subject to production quality control and material property requirements of the product standard 1859.4 Wet Processed Fibreboard for Exterior Conditions (HB.E) as referenced in Section 3.5.3.3 (b) and 3.5.3.4 (b) of BCA Volume 2.

Weathertex production operations are controlled under an SAI Global Certified ISO 9001 Quality Management System. Laboratory monitoring is completed in accordance with the specified test methods in product standard AS 1859.4 and production lab reports available on request for material property characterization.

ISO 9001 Quality Management System (SAI GLOBAL) Certificate Number #QEC1864

### **Spec C1.10 - Fire Hazard Properties**

Spec C1.10 – 4: Group number of a material is determined by (ii) data obtained in accordance with AS/NZS 3837.

Weathertex is classified as a Group 3 material. AS/NZS 3837 test report available on request.

### **Part B1 Structural Provisions**

Standard – AS/NZS 1170.2 Structural Design Actions: Wind Actions

Weathertex installation systems have been tested as per verification test method AS 4040 for cyclonic and non-cyclonic wind zones. Product and application specific test reports are available on request. Limit state ultimate wind capacity figures are reported for use with AS/NZS 1170.2 and wind zone classifications have been determined as per AS 4055 Wind Loads for Housing and tabulated in the Weathertex Installation Manual.

### **PART G5 Construction in Bushfire Prone Areas**

Weathertex has been assessed by a third party for verification to the bushfire standard. Weathertex meets the requirements for use up to and including BAL 19 areas.

Standard – AS 3959 Construction of Buildings in Bushfire-Prone Areas

AS 3959: BAL 19 Performance Requirements: 6.4.1 (c) (iv) Wall Cladding refers to Appendix E; Timber that is in reconstituted form with a density of 750 kg/m<sup>3</sup> is suitable for construction where specified in Section 5, 6 and 7 (i.e. up to and inclusive of BAL 19).

### **PART H1 Energy Efficiency**

Weathertex clad walls constructed using bulk insulation meets the construction R-Value requirements of Clause H1. Many different insulated wall systems are available to meet energy efficiency needs. Design and installation advice should be sought from the manufacturer.

### **Conditions and Limitations**

1. Installation shall be undertaken in accordance with all relevant technical information related to the selected wall system, including the National Construction Code, local regulations, third party component manufacturer's requirements and information contained in the current version of the Weathertex Installation Manual
2. The scope of this document is limited to the performance provisions of 9.5mm thick Weathertex products only
3. Performance criteria and validation methods are as published in the National Construction Code - Volume 1 – BCA Class 2 to 9 Buildings and Australian Standards current to the date of issue of this document