

Hurford's Wood Elements Product Disclosure

Product name: Wood Elements

Product line: Timber Cladding Solution

Product identifier: WOODELEMENTS

Product description: WOOD ELEMENTS is a precision milled, timber cladding solution for external walls, utilising some of the most beautiful and durable hardwoods and thermally modified pine. Wood Elements is 100% PEFC Certified and is designed and manufactured by Hurford's, a family owned timber company, which is known for its high quality and state of the art drying processes.

CLASS

All of Wood Elements is produced in batches to a specification; therefore is classified as Class 1 for the purpose of compliance with the NZ Building Code and relevant clauses.

Wood Elements weatherboard cladding is manufactured and available in four species. Three of which are an Australian Hardwood.

1. Blackbutt
2. Saligna
3. Spotted Gum
4. Tempawood (Thermal Pine).

It is to be used as an exterior wall cladding for residential and light framed commercial buildings. It is part of a proprietary system that includes collective features such as a straight-line edging process to ensure the cladding is machined to a fine tolerance; relief grooves which are designed to take the stress out of the cladding; a specially designed ridge locater connects with the overlap line controlling the expansion allowance for any timber movement.

WOOD ELEMENTS trims provide a streamline finish and play an integral part in ensuring a water tight finish. All aluminium trims are factory fitted with waterproof gaskets*, designed to decrease the on-site sealing process, and delivery of loose materials. WOOD ELEMENTS trims are available in a black powder coated chromate treated aluminium. Extreme care has been taken in all aspects of WOOD ELEMENTS Refined Architectural Hardwood Cladding. From the environment to milling and drying, profile and trim design and species selection. Each element plays an important role in the performance of the cladding system.

Wood Elements is available in one size:

134.5mm (cover size) x 21mm

WOOD ELEMENTS is a 21mm thick board with a 115mm cover width. Board lengths are random and the product is end matched, so that the end joints do not have to finish over battens. Not only does this reduce wastage, it also results in a more natural appearance. Wood Elements hardwoods (Saligna, Blackbutt & Spotted Gum) can be provided with or without pre-oiling. The Tempawood range has 18 colours available for pre-oil. Tempawood pre-oil option is a Dryden WoodOil and Colourtones range.

RELEVANT BUILDING CODE CLAUSES

B1 Structure — B1.3.1, B1.3.2, B1.3.3 (f, h, m), B1.3.4

B2 Durability — B2.3.1 (b)

C3 Fire affecting areas beyond the fire source — C3.5, C3.6, C3.7

E2 External moisture — E2.3.2, E2.3.5, E2.3.7

F2 Hazardous building materials — F2.3.1

CONTRIBUTIONS TO COMPLIANCE

B1.3.1 Wood Elements has a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout its lifespan if installed as per installation requirements.

B1.3.2 Wood Elements has a low probability of causing loss of amenity through undue deformation, vibratory response, degradation throughout its lifespan, or during construction or alteration when the building is in use.

B1.3.3 Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including:
(f) earthquake (h) wind (m) differential movement

B2.3.1(a) (ii) and (iii) and B2.3.2: Wood Elements Hardwoods (Spotted Gum, Blackbutt and Saligna) is a class 1 durability rated hardwood with a minimum 40+ years above ground durability rating where installed and maintained as per installation guide. Refer to the installation requirements for further information.

C3.5 Buildings must be designed and constructed so that fire does not spread more than 3.5 m vertically from the fire source over the external cladding of multi-level buildings.

C3.6 Buildings must be designed and constructed so that in the event of fire in the building the received radiation at the relevant boundary of the property does not exceed 30 kW/m² and at a distance of 1 m beyond the relevant boundary of the property does not exceed 16 kW/m².

F2.3.1: Wood Elements is safe when handled. There are no requirements for this product in order to comply with Acceptable Solution F2/AS1, First Edition Amendment 3, 2017.

Wood Elements has a fire rating of BAL 29.

SCOPE OF USE

Wood Elements is manufactured for use as exterior wall cladding:

For residential and commercial buildings that fall within the scope of NZS 3604 for buildings situated in NZS 3604 wind zones up to Very High For buildings with a E2/AS1 risk score up to 20 Suitable for use on buildings over 3.5m in height.

CONDITIONS OF USE

Wood Elements can be only be used when installed: in a horizontal orientation on vertical surfaces over a cavity. The solution includes three finishes, dressed, sawn brushed face and charred. Aluminium trims and a specified 70mm WURTH construction screw, which is conceal fixed into the pre-machined screw location line. This product is designed to be installed to cavity battens and is appropriate for most residential and commercial applications up to 3 storeys in height (10 metres or less). Wood Elements: must be used with joinery meeting the requirements of NZS 4211 for the relevant wind zone design details must be in accordance with the Wood Elements Installation Guide. All installations must be done by a Licensed Building Practitioner (LBP) even if Restricted Building Work is not applicable under the Building Act 2004 Limitation of Use When Installing WOOD ELEMENTS in accordance with this product and installation guide, the following building and location limitations apply:

» Buildings must have a risk score of between 0-20 as outlined in NZBC E2/AS1.

» The product is suitable for new timber-framed buildings with building wrap or rigid air barrier that comply with the NZBC, or

» Existing timber framed buildings where the designer and installer have satisfied themselves that the existing building is suitable for the intended building work.

» In each case, a height limitation of 10 metres (up to 3 storeys) applies, measured from lowest ground level adjacent to the building to the highest point of the roof (except for chimneys, arials and the like). » Stud spacing in walls is limited to maximum 600 mm centres.

» Nog/dwang spacing is limited to maximum 600 mm centres, with nonstructural castellated cavity battens then fixed to the nogs.

» Floor plan area will be limited only by seismic and structural control joints.

» Use of the product must be located more than 1 metre from relevant boundaries.

» The product can be installed in wind zones up to and including extra high as defined in NZS 3604:2011 or situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa, where the building has been specifically engineered.

» The product can be installed in all corrosion zones, excluding microclimates as defined in NZS 3604:2011 and with fastening materials to be in accordance with NZBC E2/AS1 Table 24.

SUPPORTING DOCUMENTATION

Wood Elements Installation Guide (Installation) July 2023

<https://hurfordwholesale.co.nz/wp-content/uploads/2022/05/Wood-Elements-Installation-Guide-NZ.pdf> Manufacture location: Overseas

Legal and trading name of manufacturer: Hurford Hardwood

WARNINGS & BANS

Hurford's Wood Elements is not subject to a warning or any bans under section 26 of the Building Act 2004.

APPENDIX

Building code performance clauses

All relevant building code performance clauses listed in this document:

B1 Structure B1.3.1

Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during *construction or alteration* and throughout their lives.

B1.3.2 *Buildings, building elements and sitework* shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during *construction or alteration* when the *building* is in use.

B1.3.3 Account shall be taken of all physical conditions likely to affect the stability of *buildings, building elements and sitework*, including:

(f) earthquake

(h) wind

(m) differential movement

B1.3.4

Due allowances shall be made for:

- a. the consequences of failure,
- b. the intended use of the *building*,
- c. effects of uncertainties resulting from *construction* activities, or the sequence in which *construction* activities occur,
- d. variation in the properties of materials and the characteristics of the site, and
- e. accuracy limitations inherent in the methods used to predict the stability of *buildings*

B2 Durability

B2.3.1 *Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:

(b) 15 years if:

- i. those *building elements* (including the *building* envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or
- ii. failure of those *building elements* to comply with the *building code* would go undetected during normal use of the *building*, but would be easily detected during normal maintenance.

C3 Fire affecting areas beyond the fire source

C3.5

Buildings must be designed and constructed so that *fire* does not spread more than 3.5 m vertically from the *fire source* over the external cladding of multi-level *buildings*.

C3.6

Buildings must be designed and constructed so that in the event of *fire* in the *building* the received radiation at the *relevant boundary* of the property does not exceed 30 kW/m² and at a distance of 1 m beyond the *relevant boundary* of the property does not exceed 16 kW/m².

C3.7

External walls of *buildings* that are located closer than 1m to the *relevant boundary* of the property on which the building stands must either:

- a. be constructed from materials which are not *combustible building materials*, or
- b. for *buildings* in importance levels 3 and 4, be constructed from materials that, when subjected to a radiant flux of 30 kW/m², do not ignite for 30 minutes, or
- c. for *buildings* in Importance Levels 1 and 2, be constructed from materials that, when subjected to a radiant flux of 30 kW/m², do not ignite for 15 minutes.

E2 External moisture

E2.3.2 Roofs and exterior walls must prevent the penetration of water that could cause undue dampness, damage to *building elements*, or both.

E2.3.5 *Concealed spaces* and cavities in buildings must be constructed in a way that prevents external moisture being accumulated or transferred and causing condensation, fungal growth, or the degradation of building elements.

E2.3.7 *Building elements* must be constructed in a way that makes due allowance for the following:

- a. the consequences of failure:
- b. the effects of uncertainties resulting from *construction* or from the sequence in which different aspects of *construction* occur:
- c. variation in the properties of materials and in the characteristics of the site.

F2 Hazardous building materials

F2.3.1 The quantities of gas, liquid, radiation or solid particles emitted by materials used in the *construction* of *buildings*, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

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