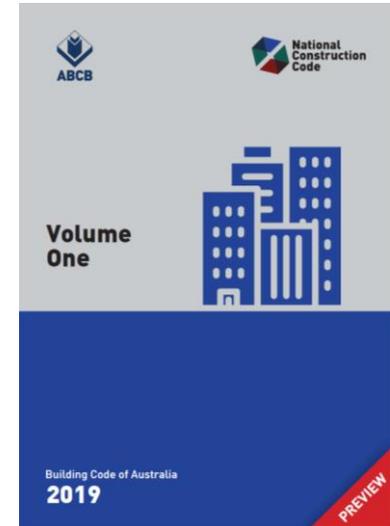




We've Got It Covered

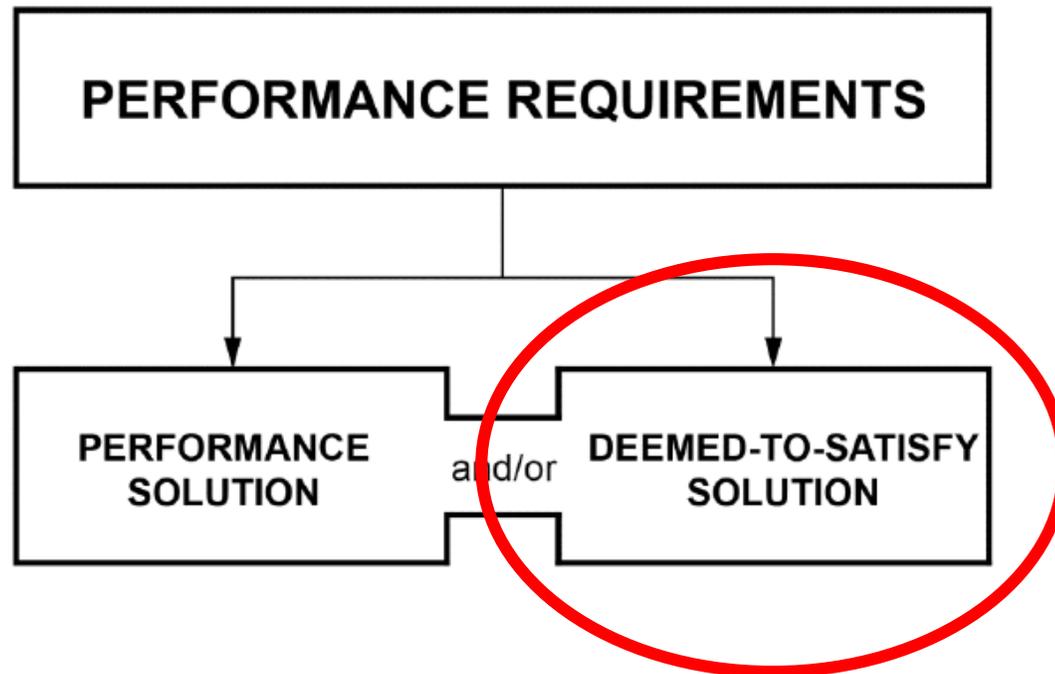
ULTRASURE

Deemed-to-Satisfy Non-combustible Solid Aluminium Panel
NCC 2019 C1.9(e)(v) Compliance Pathway & Testing



Deemed-to-Satisfy Cladding in NCC 2019

1. Deemed-to-Satisfy Solution (Clause C1.9)
2. Performance Solution (CV3 Verification Method)



Deemed-to-Satisfy Cladding Clause C1.9

Clause C1.9 requires external cladding and walls to comply with the Deemed-to-Satisfy (DTS) requirements of NCC 2019 – **Specifically that all components of External Walls and Common Walls including the cladding, framing & insulation are non-combustible for type A & B construction.**

C1.9 Non-combustible building elements

- (a) In a building *required* to be of Type A or B construction, the following building elements and their components must be *non-combustible*:
 - (i) *External walls* and *common walls*, including all components incorporated in them including the facade covering, framing and insulation.

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Basic Table of Construction Types

Class 2, 3 & 9 Buildings: Units, Apartments, Motels, Schools, Health & Aged Care, Assembly Areas

Class 5, 6, 7 & 8 Buildings: Offices, Retail Buildings, Shops, Carparks, Warehouses, Laboratories, Factories

Rise in Stories	Class 2, 3 or 9 Building	Class 5, 6, 7 or 8 Building	Class 1 or 10 Building
4 or more	A*	A*	n/a
3	A*	B*	n/a
2	B*	C**	n/a
1	C**	C**	n/a

*All Type A & B Construction Requires all External Cladding to be Non-combustible as per Clause C1.9

**May also be Type A or B Construction based on Compartment Size as per C2.2 & C2.3

Materials Exempted in Clause C1.9(d)

This means the below products do not need to be non-combustible when using a Deemed-to-Satisfy cladding system for type A & B construction.

- (d) The requirements of (a) and (b) do not apply to the following:
 - (i) Gaskets.
 - (ii) Caulking.
 - (iii) Sealants.
 - (iv) Termite management systems
 - (v) Glass, including laminated glass.
 - (vi) Thermal breaks associated with glazing systems.
 - (vii) Damp-proof courses.



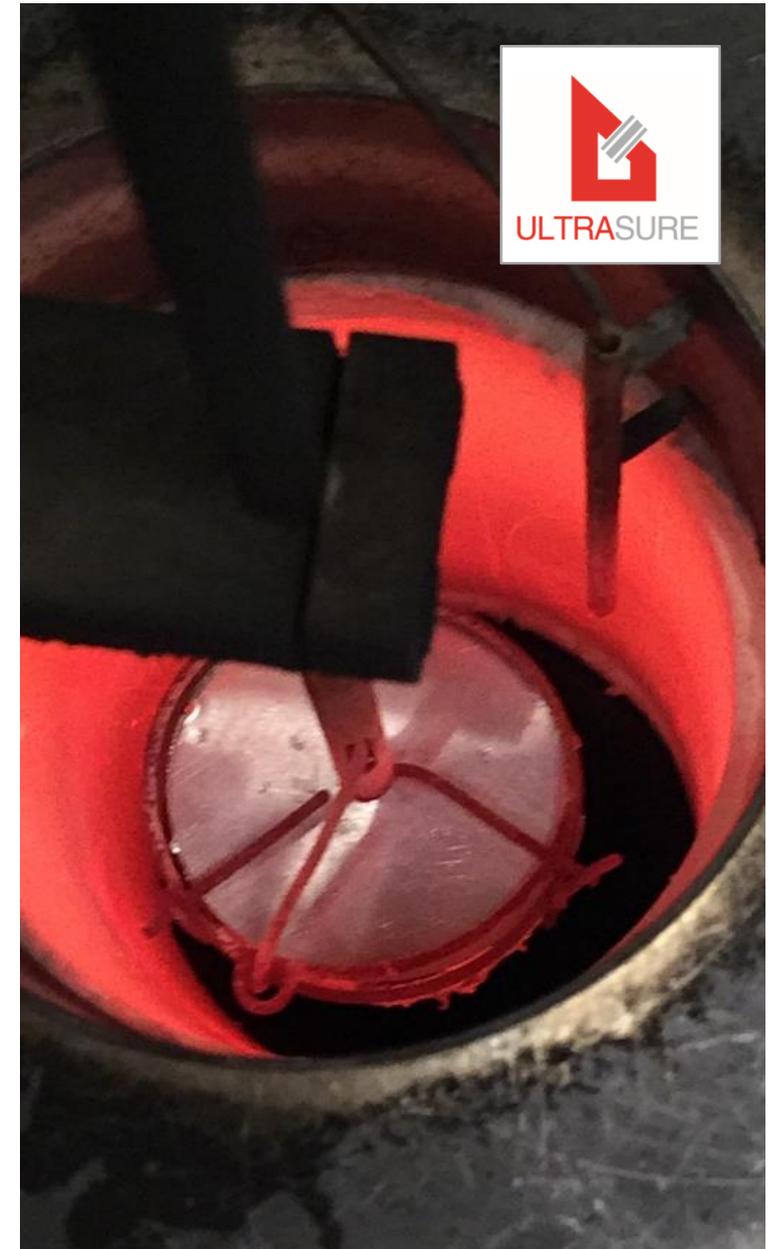
Non-combustible Materials in Clause C1.9(e)

- (e) The following materials may be used wherever a *non-combustible* material is *required*:
- (i) Plasterboard.
 - (ii) Perforated gypsum lath with a normal paper finish.
 - (iii) Fibrous-plaster sheet.
 - (iv) Fibre-reinforced cement sheeting.
 - (v) Pre-finished metal sheeting having a *combustible* surface finish not exceeding 1 mm thickness and where the *Spread-of-Flame Index* of the product is not greater than 0.
 - (vi) *Sarking-type materials* that do not exceed 1 mm in thickness and have a *Flammability Index* not greater than 5.
 - (vii) Bonded laminated materials where—
 - (A) each lamina, including any core, is *non-combustible*; and
 - (B) each adhesive layer does not exceed 1 mm in thickness and the total thickness of the adhesive layers does not exceed 2 mm; and
 - (C) the *Spread-of-Flame Index* and the *Smoke-Developed Index* of the bonded laminated material as a whole do not exceed 0 and 3 respectively.

ULTRASURE - AS 1530.1 Test

ULTRASURE Solid Aluminium Panel has been tested to AS 1530.1 by NATA accredited CSIRO and it did not flame at all or increase the temperature. It did partially melt due to the furnace being hotter than 650°C.

The ULTRASURE was not deemed **COMBUSTIBLE** to AS 1530.1 as per criteria meaning it can be classified as a DTS non-combustible material.



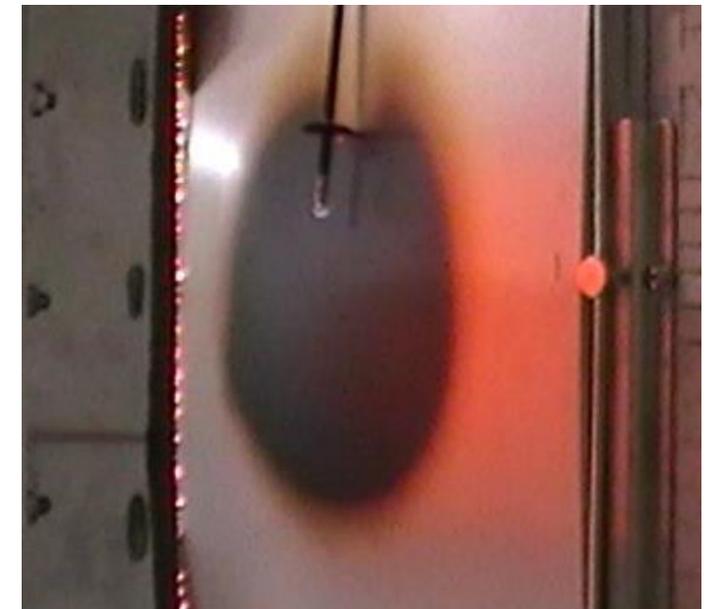
ULTRASURE - AS 1530.3 Test

As per the requirements of NCC 2019, this test involves the panel including the paint being tested to AS 1530.3. Finished samples are mounted vertically in front of a radiant heat source to simultaneously determine;

- Ignitability Index = 0
- Spread-of-Flame Index = 0
- Heat Evolved Index = 0
- Smoke-Developed Index = 1



Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
0	0	0	1



ULTRASURE Results Table as per C1.9(e)(v)

ULTRASURE Non-combustible Solid Aluminium Panel

TEST	RESULT	
NCC 2019 C1.9(e)(v)	Deemed-to-Satisfy Non-combustible	
AS 1530.1*	Not deemed COMBUSTIBLE	
Paint Thickness	Less than 1mm	<0.05mm
AS 1530.3**	Spread-of-Flame	0
	Smoke-Developed	1



*Refer CSIRO AS 1530.1 Certificate #: FNC12287

**Refer AWTA AS 1530.3 Certificate #: 18-004772



PROJECT:

Reclad Project Leederville

ARCHITECT:

Arup / Client

BUILDER:

NS Projects

PRODUCT:

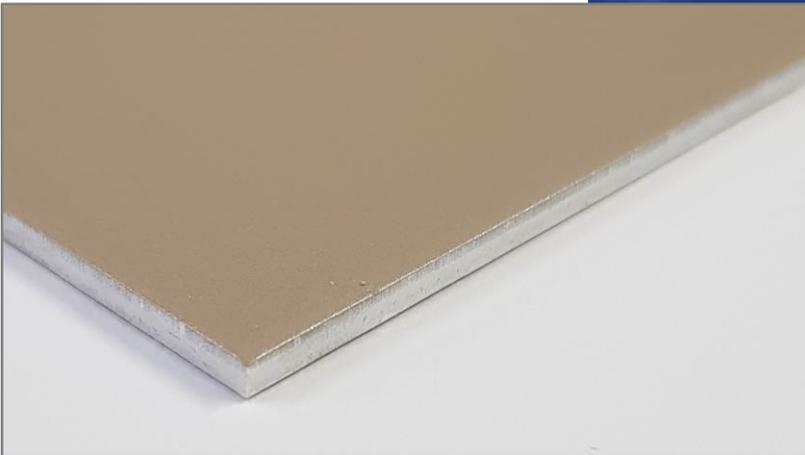
ULTRASURE

FAÇADE M2:

2,000m²

COMPLIANCE PATHWAY:

Deemed-to-Satisfy (DTS)



PROJECT:

Wickham FIFO Accommodation

ARCHITECT:

CCN Architects

BUILDER:

Diploma Constructions

PRODUCT:

ULTRASURE

FAÇADE M2:

10,000m2

COMPLIANCE PATHWAY:

Deemed-to-Satisfy (DTS)



PROJECT:

Cajuput FIFO Accommodation

ARCHITECT:

East Coast Architect

BUILDER:

Hutchinson Builders

PRODUCT:

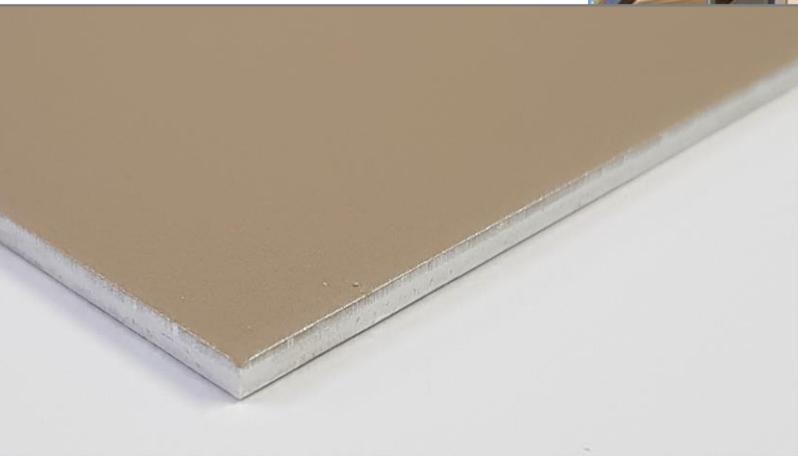
ULTRASURE

FAÇADE M2:

8,000m²

COMPLIANCE PATHWAY:

Deemed-to-Satisfy (DTS)



PROJECT:

69 Adelaide Terrace

ARCHITECT:

Hodge Collard Preston

BUILDER:

Pindan Constructions

PRODUCT:

ULTRASURE

FAÇADE M2:

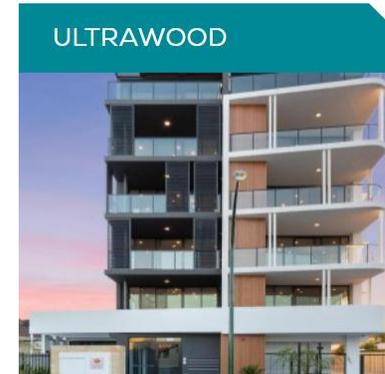
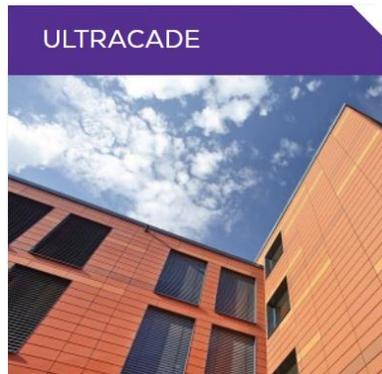
2,000m2

COMPLIANCE PATHWAY:

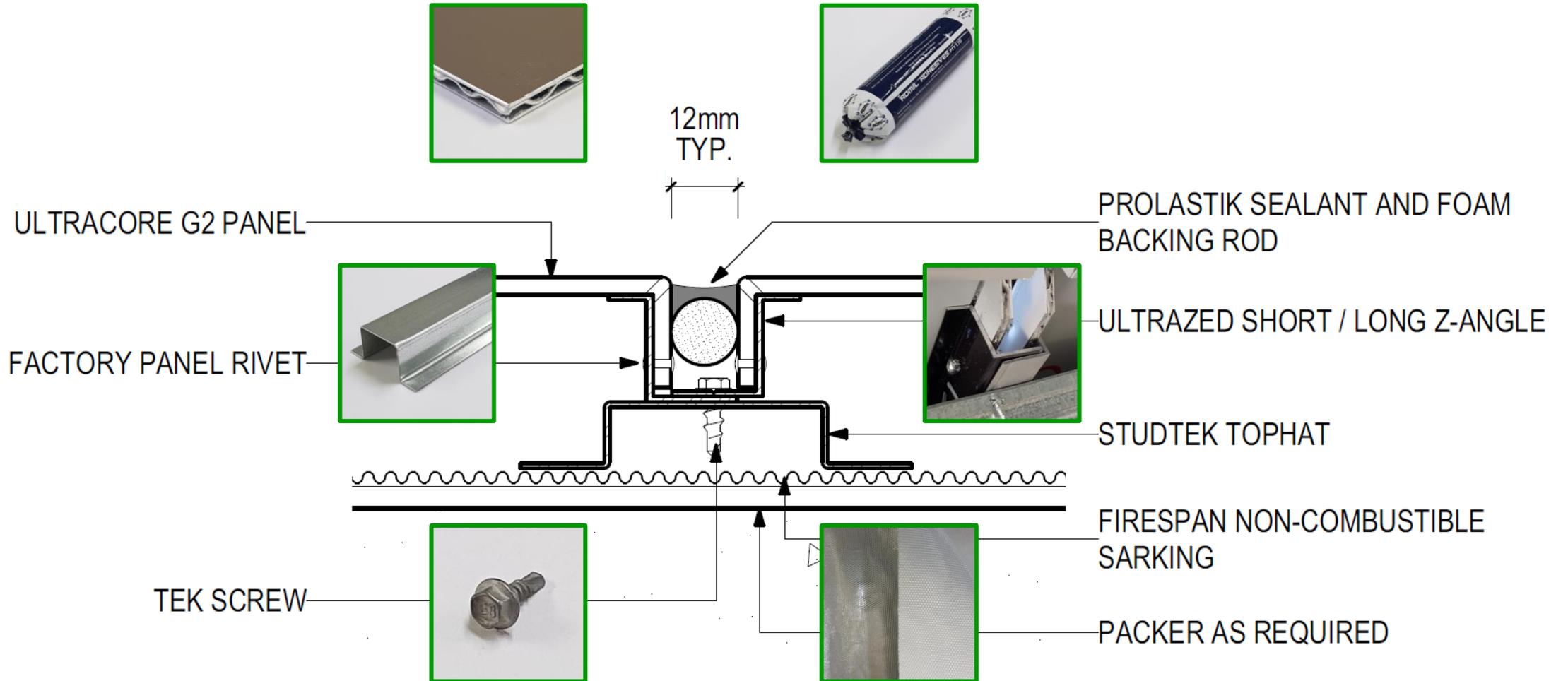
Deemed-to-Satisfy (DTS)



Which BLUECHIP Products are DTS Compliant?



From The Structure Out, We've Got It Covered



Thanks Sincerely for your Time and Attention



New WA Distribution Centre
Coming October 2019

To claim 1 formal CPD point please hand in your CPD attendance & assessment form or email it to; sales@bluechipgroup.net.au