

# Product Information



**Induracore G2**

ALUMINIUM LAMINATED PANELS

## About Induracore G2.

Induracore G2 is developed by Fairview Asutralia and manufactured by Paneltec New Zealand. Induracore G2 appears exactly the same as traditional aluminium composite panel (ACP), however the advanced technology of the core is constructed from a complete aluminium stamped structure rather than from a combustible material. With no composite material present, Induracore G2 is renamed as an Aluminium Laminated Panel (ALP).

The benefits of Induracore G2 include its high mechanical properties, simple fabrication and 100% aluminium core. The outstanding surface flatness is enhanced with a high quality PVDF coating system, which provides optimum resistance to weather and industrial pollutants. Induracore G2 comes in an unlimited range of colours, as well as a selection of natural finishes.

Not only does it look similar to traditional ACP, it is also the same to fabricate and install. In addition, the technology of the core allows continual production; providing an exceptionally consistent and cost effective product.

Induracore G2 can be easily and accurately installed by a pre-made cassette system, requires minimal maintenance and comes with excellent long-term performance.

It has also completed the full scale BS8414-2 test over a timber frame with a full pass to the BR135 standard. Induracore G2 has been tested to AS5113 and safely met the various temperature criteria for prevention of flame spread. As expected for many varied and popular facade materials, the debris criteria for AS5113 was not met.

This panel is one of the few aluminium panels globally that is deemed non-combustible under the Building Code of Australia (BCA) when tested to AS1530.1 under clause C1.9e part(vi).

## Key Features.



### FULL SCALE FIRE TESTED

Induracore G2 is one of the few aluminium panels in NZ that has been tested to BS8414 test over a timber frame and fully passed the BR135 criteria.



### PAINT SYSTEM

Induracore G2 only uses the highly recognized PVDF KYNAR 500 or FEVE paints known for their high durability, providing the optimum resistance to weather and industrial pollution.



### CODEMARK CERTIFIED

Induracore G2 has got full CodeMark certification to the New Zealand Building Code. GM-CM30118 RevA



### WEATHERPROOFED

Induracore G2 is weatherproofed to E2 Standards when using Paneltec's AS/NZS 4284 tested system.



### LIGHTWEIGHT

Induracore G2 is very lightweight, with only being 4.6kg per m2 compared to 7.3kg per m2 of standard ACM panel.



### CONCEALED FIX SYSTEM

Induracore G2 is the same to fabricate and install as traditional ACP by CNC routing panels into the concealed fix z-angle cassette system



### INFRASTRUCTURE

Being full scale fire tested and offering simple and lightweight fabrication make Induracore G2 a suitable product for large infrastructure projects.



### WARRANTY

Induracore G2 has up to 15 year's warranty when correctly installed and maintained.

MID CITY CANOPY, TAURANGA NZ



## Fire Resistance.

In today's architecture, not only is it the appearance that counts but equally important is the technical details, such as sustainability, moisture control and fire protection. The specification and use of intense full scale fire test on facade panels has now become an industry norm amongst architects and industry professionals.

To provide peace of mind and demonstrate full scale performance, Induracore G2 has been large scale fire tested to the requirements of BS8414 with a full pass to BR135 standard and did not propagate flame.

Induracore G2 has been tested to AS5113 and safely met the various temperature criteria for prevention of flame spread. As expected for many varied and popular facade materials, the debris criteria for AS5113 was not met.

Induracore G2 was the first bonded aluminium panel to be awarded the status 'deemed non-combustible' under the Building Code of Australia (BCA) under Clause C1.9e(vi) and is tested to AS1530.1 and AS1530.3. Induracore G2 is the proven choice for use where full scale tested facade cladding must be specified such as hospitals, schools and high-rise buildings.

INDURACORE G2	
TEST STANDARD	RESULT
BS8414, BR135	PASS
AS5113	Flame spread and temperatures below AS5113 requirements, however as expected for aluminium panels, the debris criteria was not met.
EN13501 - 1:2018	A2 - s1, d0

## Infrastructure.

Induracore G2 has been widely used on infrastructure projects such as schools and hospitals due to it being a highly tested facade product. Other key benefits of using this product on infrastructure projects include:

- Full scale fire tested
- Resistant to corrosion
- Lightweight
- Easy to install and replace
- Cost Effective
- Unlimited colour range, including graphics
- Design flexibility
- Long term durability

CITIZEN APARTMENTS,  
AUCKLAND NZ



## Manufacturing Quality.

A dedication to the total fulfillment of our client's and customer's expectations is reflected by a complete quality control system, beginning at the point of specification and continuing through to delivery of the guaranteed products. All activities are carried out in a manner which;

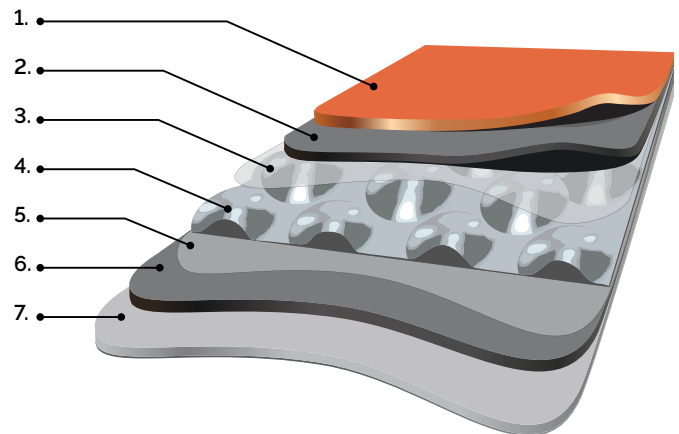
- Uses the framework of ISO9001 Quality Standard to verify the quality of our systems.
- Ensures that our products and services are of the highest standards.
- Creates continuous improvements to our product through the application of the best quality practices.

## Acceptance Variation.

WIDTH	±2.0 mm
LENGTH	±4.0 mm
THICKNESS	±2%
BOW MAXIMUM	0.5% of the length and/or width
SQUARENESS MAXIMUM	5.0 mm
SURFACE DEFECTS	The surface shall not have any irregularities such as dents, scratches and other imperfections in accordance with our quality assurance.

## Typical Composition

1. PVDF Coloured Coating
2. 0.7mm Aluminium Skin
3. < 0.1mm Adhesive
4. 3mm Profiled Aluminium Core
5. < 0.1mm Adhesive
6. 0.5mm Aluminium Skin
7. Polyester Anti-corrosion Coating



## Dimensions

Width	Length	Thickness
1250	2500	4mm
	3200	
	4000	
1500	2500	
	3200	
	4000	
Custom sizes are available, please speak to the Paneltec team.		

## Weight

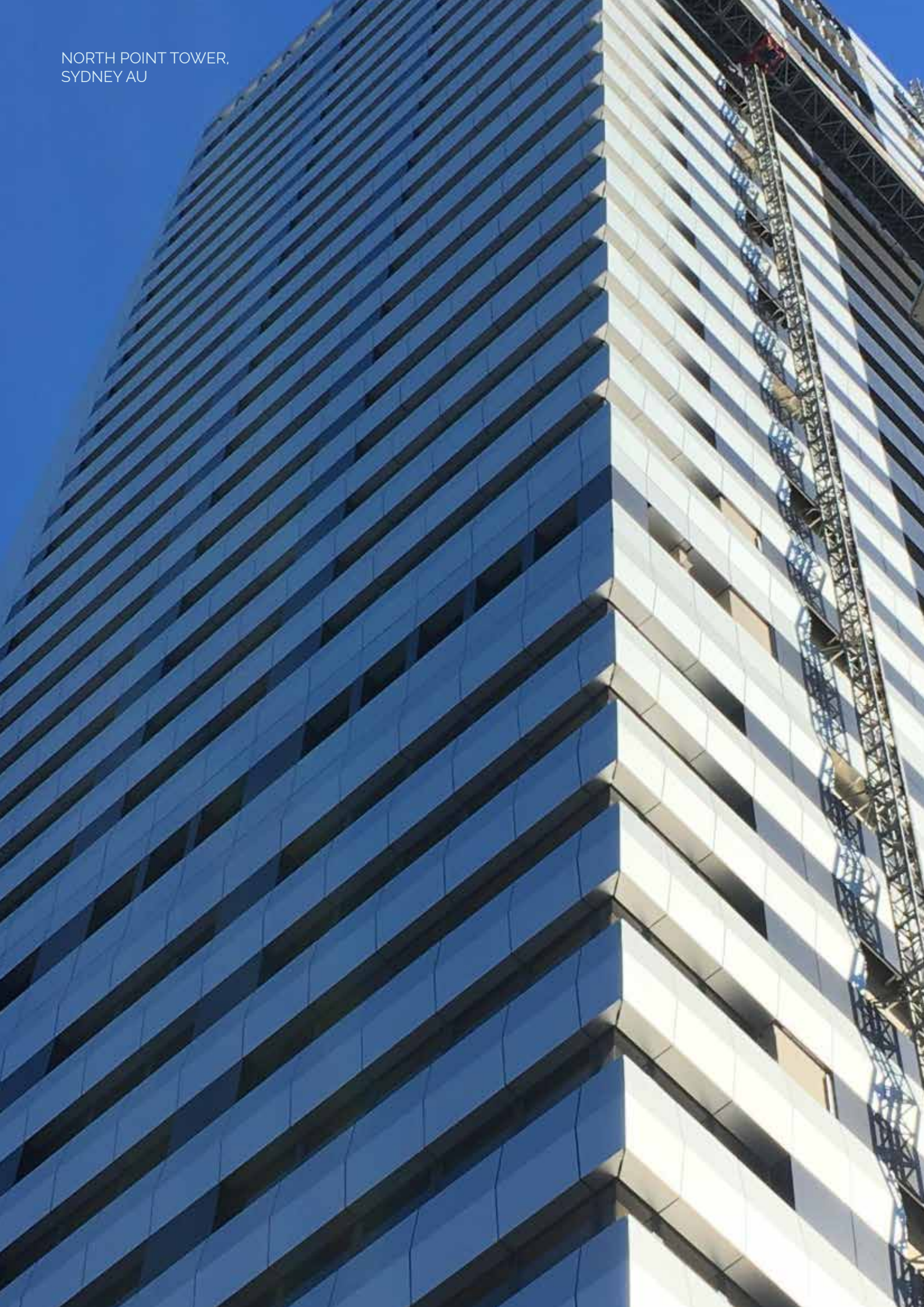
Thickness	Weight [Kg/M <sup>2</sup> ]
4mm	4.6

## Technical Data.

Classification	Test Standard	Unit	Induracore G2
Panel Weight		[kg/m <sup>2</sup> ]	4.6
Thickness		[mm]	4
Thickness of Aluminium face		[mm]	0.7
Maximum Width		[mm]	1250/1500
<b>Aluminium Skin</b>			
Tensile Strength			160MPa
Alloy/Temper of Aluminum layers			3003 H24
<b>Surface Properties (PVDF Coatings)</b>			
Dry film thickness (nominal)	ASTM D1400		0.20-0.30 mil primer 0.70-0.80 mil topcoat
Gloss	ASTM D523		Standard @ 60°: 25-35 Duranar LG @ 85°: <10
Pencil Hardness	ASTM D3363		F-2H
Flexibility	T-Bend, ASTM D4145		0-2 T-Bend; No pick-off
Adhesion	ASTM D3359 Reverse Impact 1/16' crosshatch		No adhesion loss
Reverse Impact	ASTM D2794		1.5 x Metal thickness (aluminum): No cracking or adhesion loss
Acid Resistance	ASTM D1308		10% Muriatic acid - 24 hrs: No effect
Acid rain Test	Kesternich SO <sup>2</sup> , DIN 50018		15 Cycles min. No objectionable colour change
Alkali Resistance	ASTM D1308 10%, 25%, NaOH, 1 hr.		No effect
Salt spray Resistance	ASTM B117 5% salt fog @ 95°F		Passes 4000 hrs. Less than 1/1' avg. creepage from scribe; None or few #8 blisters
Humidity Resistance	ASTM D714 ASTM D2247 100% relative humidity @ 95°F		Passes 4000 hrs. No #8 blisters
Exterior Exposure	ASTM D2244 ASTM D4214 10 yrs. @ 45°, South Florida		Max. 5 fade Max. 8 chalk



NORTH POINT TOWER,  
SYDNEY AU

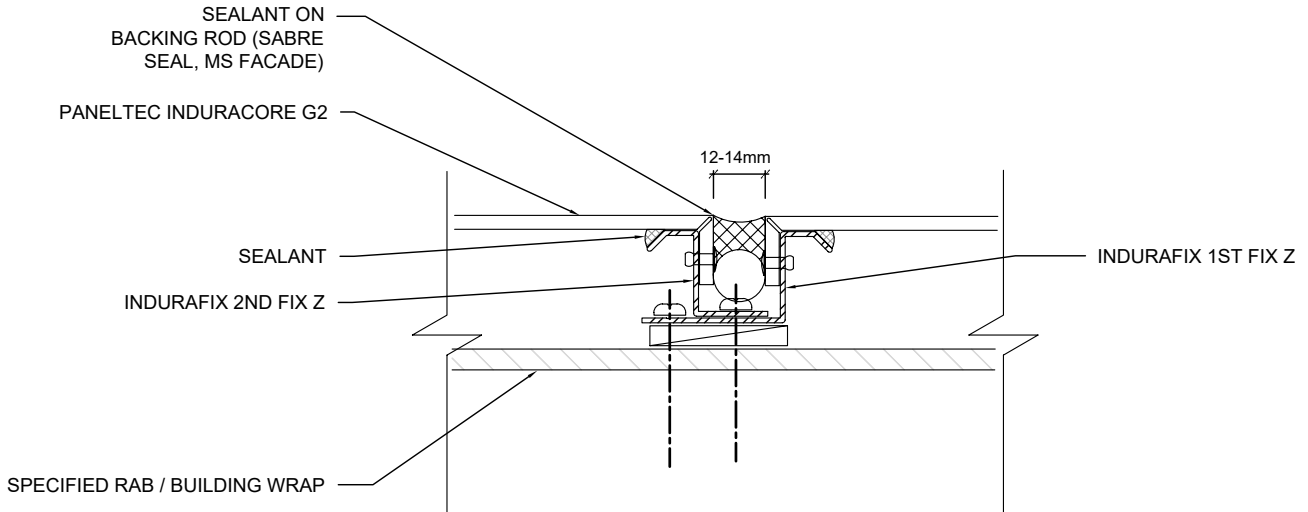


## Finish

Induracore G2 uses only the highly recognised PVDF KYNAR 500 or FEVE paints known for their excellent durability. These premium paints provide an optimum resistance to weather and industrial pollution. More than 40 years of South Florida Exposure Testing is continuing to confirm the superior chemical and physical properties of fluoro polymer coatings.

Induracore G2 has an unlimited colour range as we are able to match almost any finish and colour required. Induracore G2 panels also come in a range of anodised finishes, offering both standard and customised colours and textures as well as natural zinc finishes.

## Fixing System



### Concept Drawing Only.

For more details, please refer to the Paneltec Induracore G2 Installation Manual.





# Paneltec

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