



Vulcan Engineered Cladding

Product Summary

New generation engineered cladding

Vulcan Engineered Cladding (ELVG) is the next evolution of Abodo's trusted Vulcan Vertical Grain product range.

The product combines Abodo's world-leading thermally modified timber and patented vertical grain technology, with a secondary patent-pending process that applies a layer of high-grade vertical grain onto a laminated base.

The resulting product has enhanced weathering performance and boosted sustainability credentials for future generations.

Key benefits

- High dimensional stability
- Reduced rates of surface checking
- Increased availability of select length
- Optimal utilisation of precious clear grade timber



Vulcan Engineered Cladding (ELVG)

Sustainability 2.0

Vulcan Engineered Cladding provides for future generations by optimizing the efficient use of clear grade timber.

This is achieved by engineering a high-grade layer onto a lower grade base, so that we are able to increase the volume of FSC certified clear grade vertical grain timber available to the market.



Proven performance

Abodo's Vulcan vertical grain lamination technology has over a decade worth of proven performance in exterior applications across thousands of projects in New Zealand and around the world.

Vulcan Engineered Cladding builds on this track record by using the same Polyurethane (PUR) Exterior Type 1 adhesive that has been performance tested in the real world over decades and certified to AS/NZS1328.

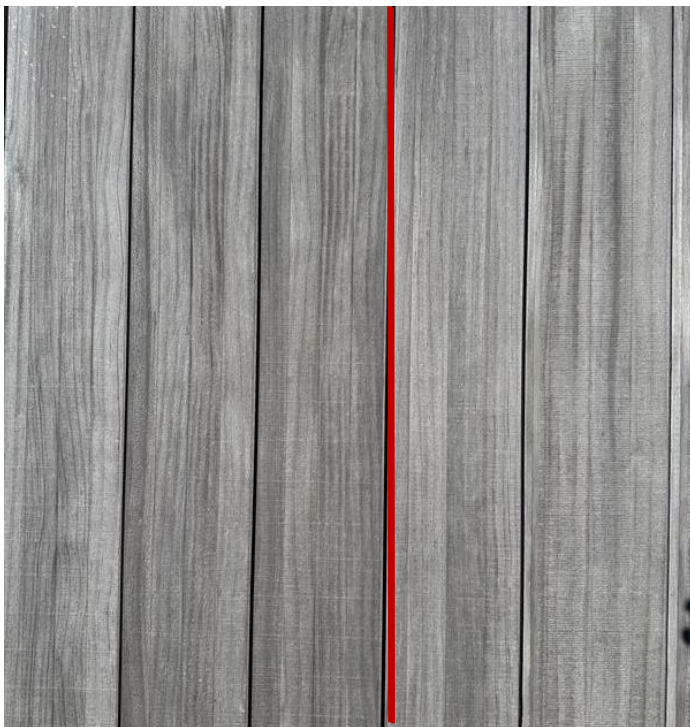
Vulcan Engineered is the result of many years of exhaustive testing by the Abodo R&D team.

Product testing- 2 year exposure

Weather exposure testing was conducted at Abodo Ohinewai test site in accelerated real world conditions.



Cladding Panels were installed onto racks at a 45 degree angle facing north with full weather exposure for equivalent of 2 years.



Cladding test panels – Vulcan Engineered (left) vs Vulcan Vertical Grain (right) uncoated



Real world Case Study – 3 years exposure

Vulcan Engineered Cladding in WB12 138x20 profile coated with Protector Nero black was installed onto Abodo's Site office at Ohinewai in 2022. The cladding is fully exposed to the weather with no eaves.



Ohinewai site office – Vulcan Engineered WB12 138x20 Nero, north wall.

Cladding temperature was measured at over 60 degrees Celsius on the North facing elevation in the peak of summer.



Ohinewai site office – North elevation summer temperature 1pm



Mitred scarf joints at board ends remain sound without any movement.



Ohinewai site office – Scarf joins

Minimal cupping or movement detected, no surface checking is present.



Ohinewai site office – Cladding minimal dimensional movement, no checking

Assessment of cladding movement using taper gauge.
13/3/25 12.30pm after 3 years exposure.

Total no boards	54	
Sampled boards	16	
Sample size	30%	
Cupping (mm)	Step (mm)	
0	2.3	1
0	0.0	
0	0.0	
0	3.0	1
0	0.0	
0	0.0	
0	0.0	
0	1.8	1
0	0.0	
0	2.8	1
0	0.0	
0	0.0	
0	1.6	1
0	0.0	
0	0.0	
0	0.0	