

HINUERA NATURAL STONE

PURPOSE

Hinuera Natural Stone is supplied for use as veneer cladding, paving, window & door sills, stair treads, fire surrounds and internal decorative linings.

EXPLANATION

Hinuera stone is a naturally occurring volcanic rock (Ignimbrite), quarried at Hinuera in the Waikato. It is graded into four categories based on the strength, hardness, appearance which ultimately defines its end use. It falls within the range for heavy cladding materials (refer section 1 NZS 3604).

Other processing such as cutting, kiln firing (to create different tones or highlight naturally occurring markings) or creating different surface finishes (Sawnstone and Splitstone) have no effect on the physical properties of the stone.



For further assistance please contact:

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✉ john@businesstechnologies.co.nz

🌐 www.hinuera.co.nz



Category	Use						Light Reflectance Value	
	Veneer cladding	Paving	Window & door sills	Stair treads	Fire surrounds	Slips	Natural	Kiln Fired
Thickness	70, 90 mm	20, 25 mm	60 mm	40, 60 mm		25, 40 mm		
Ahi	✓					✓	42.53	25.18
Kaha		✓	✓	✓	✓	✓	42.90	
Select Statuary		✓	✓	✓	✓	✓	43.68	
Awa	✓					✓	46.12	31.14

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>In all wind zones up to and including extra high as defined in NZS 3604:2011, or up to a calculated design wind pressure of 2.5 kPa.</p> <p>All exposure zones as defined in NZS 3604:2011.</p>	<p>➤ In exposure zone D and where the Hinuera stone is installed externally, the stone must be coated with HYDROL DB31 Silicone Water Repellent.</p>
<p>Building</p> <p>In connection with a primary structure that complies with the NZ building code or where the designer and/or installer have established that the existing building is suitable for the intended building work.</p> <p>As an external cladding.</p> <p>As an internal lining.</p>	<p>➤ To be installed in accordance with section 9.2 E2/AS1 or over a waterproof rigid substrate where the stone may be adhered with an adhesive or be mechanically fixed.</p> <p>➤ Hinuera Stone slips must not be glued to plywood.</p> <p>➤ To be installed over a rigid substrate where the stone may be glued with an adhesive or be mechanically fixed.</p> <p>➤ Hinuera Stone slips must not be glued to plywood.</p> <p>➤ In wet areas the rigid substrate must be impervious to moisture.</p>

USEFUL INFORMATION

For information on the design, installation and maintenance of Hinuera Natural Stone and for our warranty refer to www.hinuera.co.nz.

CONDITIONS OF USE

- The Hinuera Stone must be installed by a qualified brick layer or stone mason.
- Bagged trade mortar, using town-supply or rainwater, must be used to install the stone.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Hinuera Natural Stone Ltd requirements, Hinuera Natural Stone will comply with or contribute to compliance with the following performance claims:

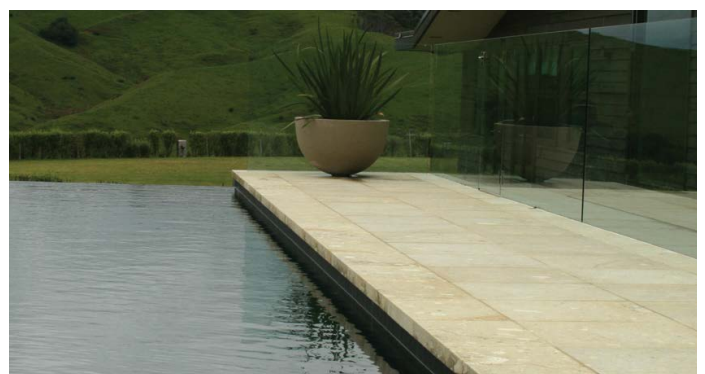
NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q)	ACCEPTABLE SOLUTION B1/AS1	➤ Meets the requirements of NZS 4210:2001 which is cited in B1/AS1.
B2 Durability B2.3.1 (b)	ALTERNATIVE SOLUTION	➤ Meets the requirements of B1/AS1. ➤ BRANZ assessment (2005).
C3 Fire affecting areas beyond the source C3.4 (a) C3.7 (a)	ACCEPTABLE SOLUTION C/AS2 1 st edition, June 2019	➤ Ignimbrite Rock is non-combustible. ➤ Non-combustible products have a material group number of 1.
D1 Access Routes D1.3.3 (d)	ACCEPTABLE SOLUTION D1/AS1	➤ Tested by Safety Step (NZ) Ltd to AS/NZS 4586:2004. ➤ Achieved Mean Coefficient of Friction of 0.82.
E2 External Moisture E2.3.2, E2.3.5, E2.3.6, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION E2/AS1	➤ Hinuera Natural Stone is directly comparable to brick.
F2 Hazardous Building Materials F2.3.1	ACCEPTABLE SOLUTION	➤ Does not contain or emit harmful materials.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION²

- aaltopaint (2020). *Light Reflectance Value evaluation*.
- BRANZ. (2005). *DC 0980. Resistance of Hinuera Stone to Salt Attack: Stage 111 – Durability after Hydrol Sealing*.
- Hinuera. (April 2017). *Technical Guide. Version 7*.
- Safety Step (NZ) Ltd. (2018). *Slip Resistance Test Report*. Tested to AS/NZS 4586:2004.

2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.



VERSION:

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Note: Uncontrolled in printed format.

NAME:

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POSITION:

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DATE:

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John Illingsworth

Director

Signed on behalf of Hinuera Natural Stone Ltd:

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



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