

JACOBSEN NBK TERRACOTTA TERRART CLADDING

PURPOSE

The NBK Terracotta Terrart system (the system) is a ventilated curtain wall/rainscreen system supplied for use as an external wall façade and as an internal lining or feature wall.

EXPLANATION

The system comprises natural NBK Terracotta clay tiles or baguettes and a proprietary aluminium fixing system.

THE TERRART® TILES

The tiles weigh between 32 – 65 kg/m² and are classified as a medium weight cladding (refer NZS 3604:2011, section 1.3).

Tiles are available as follows:

	LARGE	MID	SHINGLE	SOLID	LITE
Length (max) (mm)	3000	1800	1800	1200	1360
Height (mm)	800	500	300	600	300
Thickness (mm)	40	28	25 and 40	20 and 30	22
Surface finishes	Natural, honed, textured, peeled, profiled, glazed				
Mass (kg/m ²)	65	45	65	35	36

THE TERRART® BAGUETTES

The baguettes are ceramic pipes with square, rectangular or oblong cross-sections or custom made as curved or coffer elements. They are intended to be used as an open façade such as a privacy screen to window areas.

THE SUPPORT SYSTEM

The specifically designed 6063-T5 aluminium bracket support system is supplied in horizontal and vertical channel configurations. The panels are located into position using a proprietary hidden clip or a continuous back carrier with varying cavity depth.

SCOPE AND LIMITATIONS OF USE

LOCATION

- | | |
|---|--|
| In wind zones up to and including extra high as defined in NZS 3604:2011 or to a wind design pressure (ULS) of 4.3 kPa. | ➤ The ULS must be established by a Registered Engineer |
| In all exposure zones as defined in NZS 3604:2011. | ➤ Where adverse microclimatic conditions apply, as set out in paragraph 4.2.4, NZS 3604:2011, contact Jacobsens for technical advice. |
| On buildings any proximity to a relevant boundary. | ➤ Where the building is greater than 10 m in building height or closer than 1 m to a relevant boundary, the design of the external wall must be subject to fire engineering. |

BUILDING

- | | |
|---|---|
| In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work. | ➤ The primary structure must be able to support a medium weight cladding system as defined in NZS3604: 2011, sec 1. |
| | ➤ The system must be installed over a rigid, wet wall substrate that complies with the NZ Building Code. |



For further assistance please contact:

☎ 0800 800 460

✉ customer.service@jacobsens.co.nz

🌐 www.jacobsens.co.nz



USEFUL INFORMATION

For information on the design, installation and maintenance of NBK Terracotta and for our warranty refer to www.jacobsens.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY MANUFACTURER

Hunter Douglas Architectural Products (China) Company, Ltd as manufacturer of the system have the following certifications:

- ISO9001: 2015 Certificate CN01/19150.01 SGS, Issued by UKAS
- ISO14001: 2015 Certificate Nr: 46446/09-18_a Issued by DAkkS
- ISO50001: 2011 Certificate Nr: 46446/09-18_a Issued by DAkkS
- ISO14025: 2006 Certificate EPD-NBK-20160120-CBE1-DE Issued by IBU-Institut Bauen und Umwelt e.V.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Jacobsen's requirements, the NBK Terracotta 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), (b), (c), (f), (h), (i), (j), (m) B1.3.4 (b, c, d, e).	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Meets the performance requirements of EN ISO 10545 <i>Ceramic Tiles</i>. ➤ SGS Testing services. [30/09/2014]. Verification of conformity with EN 14411:2012. Product passed EN ISO 10545-12:1997 characteristic/physical properties tests (report no. XMCM140900848). ➤ Technology Centre impact [2010] and seismic [2013] testing. ➤ Friedman & Kirchner bearing capacity test [2019]. ➤ Ingenieia DICTUC [2008]. evaluation of façade wall seismic performance evaluation. ➤ Ferum Consulting Engineers [2020]. ➤ Structural Design Report. Wind/seismic loadings AS/NZS 1170
B2 Durability B2.3.1 (b), B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ SGS Testing services. [30/09/2014]. Verification of conformity with EN 14411:2012. Product passed EN ISO 10545-12:1997 characteristic/physical properties tests (report no. XMCM140900848).
C3 Fire affecting areas beyond the fire source C3.4(a), C3.5, C3.7 (a)	ACCEPTABLE SOLUTION C/AS2 June 2019, 1 st Edition	<ul style="list-style-type: none"> ➤ Ceramic tile defined as non-combustible (refer definitions C/AS2 June 2019, 1st Edition). ➤ Achieves material group 1. ➤ Tested by SIRIM QAS to BS476: Parts 6 1989 + A1: 2009 and Part 7 1997. Achieved material 1 rating. ➤ SIRIM QAS is ILAC-MRA accredited.
E2 External moisture E2.3.2, E2.3.5 E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Tested to AAMA 509-09, with V6/W1 classification. ➤ Shawn McIsaac. Oculus. [Nov 2019]. Evaluation against AAMA 509-09 as a means of establishing compliance with E2.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ System, comprising natural clay terracotta and aluminium, 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 INFORMATION

- Hunter Douglas Singapore Pte Ltd [09/2014]. *Technical data sheet Terrart panel*.
- Technology Centre [11/12/2013]. Certificate of test number 18758. Seismic Testing of a Blida Hospital Tiled Façade Sample for NBK Keramik GmbH.
- Technology Centre [16/02/2010]. Certificate of Test Number 12871. Impact testing a sample of Terracotta Rainscreen for the Digby Road Project,.
- Friedman & Kirchner [6/11/2009]. Test report number 2008-12-3662-03. *Proof by practical experience of the bearing capacity of tiles*
- Ingenieia DICTUC [01/2008]. Evaluation over a vibrating table on the seismic performance of the façade wall in the Edificio Consultas #4 of Clinica Las Condes
- SGS [30/09/2014]. Verification of conformity *No IN-XM-CP-5612-14079*. Test Report No XMCM140900848.
- Jacobsens [undated]. NBK® Terracotta Technical Statement and Documentation References
- TÜV SÜD PSB Singapore [29/07/2017]. Test Report No. 7191170336- MEC17/1-YWA. *Large scale surface spread of flame test on NBK Terracotta material* submitted by Hunter Douglas Singapore Pte Ltd on 08 Sep. 2017
- TÜV SÜD PSB Singapore [29/07/2017] Test Report No. 7191170336-MEC17/2-YWA. *Fire propagation test on NBK Terracotta material* submitted by Hunter Douglas Singapore Pte Ltd on 08 Sep. 2017
- Oculus Architectural Engineering Limited [2019]. Peer review of referenced performance technical documentation.
- Ferum Consulting Engineers [26/01/2020]. Test Report No.20M027. *Lateral Loading for maximum spans of 22 mm NBK*

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.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.

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VERSION:

DATE:

Note: Uncontrolled in printed format.

NAME:

Andrew French

POSITION:

National Sales Manager

Signed on behalf of Jacobsen:

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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