



Expertise from the floor up

## **NBK® Terracotta Technical Statement and Documentation References**

### **Purpose**

Jacobsen Creative Surfaces are the New Zealand distributor of Hunter Douglas NBK® Terracotta Rain Screen System comprising Natural Clay Terracotta tiles and Aluminium Sub-frame.

This document serves as an executive summary of the information necessary when specifying, consenting and using NBK® Terracotta. Documentation referred to in this summary is available on request, contact Andrew French: [andrew.french@jacobsens.co.nz](mailto:andrew.french@jacobsens.co.nz)

### **Description**

NBK® is a ventilated curtain wall/rain screen system whose exposed components are made exclusively from terracotta. Approximately 20 Natural Clay Colours and Glazed Surface colours to almost any RAL specification are available.

The NBK® Terracotta support system – a patented development within the NBK product range – comprises a few individual components using 6063-T5 alloy, ensures excellent integration of the system.

Qualified NBK® engineers design the Support System on a project-by-project basis to accommodate site specific Design, Seismic and Wind-load requirements.

### **Quality Policy**

NBK® Terracotta products supplied to Jacobsen Creative Surfaces is manufactured at Hunter Douglas Architectural Products (China) Co. Ltd, Shanghai. This site is certified ISO 9001:2000 & ISO 14001:2004.

Today, the NBK® system is used in all its variants across the globe. New Zealand Applications as of August 2017 include:

- US Embassy, Wellington.
- KEB Buildings Christchurch
- Bellus Apartments, Auckland
- Napier Lane Townhouses, Auckland
- Pinesong Apartments, Auckland
- Jacobsen Private Residence, Far North

### **Standard Tile Dimensions**

Type	Height mm	Length mm	Thickness mm	Weight Kg/m <sup>2</sup>
Mid	150 – 500	150 – 1800*	28	55
Large	150 – 800	150 – 3000*	40	65

\*This dimension has been successfully achieved since the publication of the Catalogue of Support System.

A variety of Sun Shading/Baguette profiles are also available for a wide range of applications.

### **Installation Requirements**

NBK® Terracotta must be installed by experienced façade installers and to the specifications outlined in the Manufacturers Specifications, Producer Statement and Shop Drawings (Shop Drawings provided by NBK post order confirmation).



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**NZ Building Code Clauses relevant to NBK® Terracotta Rain Screen and supporting documentation.**

B1 Structure	Seismic Performance Evaluation Report dated 21-01-08.
B2 Durability	Verification of Conformity Certificate No. 1N-XM-CP-5612 in accordance with EN 14411:2012 Ceramic tiles – Definitions, classification, characteristics and marking.  Test Report No. XMCCM140900848 in accordance with EN 1441:2012.  Test Report No. 2008-12-3662-03 - Proof of practical experience of the bearing capacity of tiles in accordance with DIN 18516-1  Impact Test Report No. 12871 in accordance with BS 8200:1985.  UV Exposure – natural product, does not require testing.  Standard 15yr Warranty with working life in excess of 50 years.
C Fire Safety	Non-combustible Materials – does not require testing
E2 External Moisture	Weathertightness Design – when used as a rain screen as part of a drained vented cavity system with an air barrier. Tested to AAMA509-09 – achieved lowest classification for water entry, W1. Achieved good air flow classification, V6. (Note both water and ventilation scales range from 1-11). Tested successfully from -4.3KPa to +4.7KPa.

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**Appendix 1: Referenced Documents.**

- Hunter Douglas NBK Catalogue of Support System 2011-12
- Verification of Conformity, SGS-CSTC Standards Technical Services Co., Ltd. Dated 30/Sept/2014.
- SGS Test Report No. XMCCM140900848 dated 30/Sept/2014.
- Seismic Performance Report, Laboratory of Dynamic Tests and Vibration Control of the Structural and Geotechnical Engineering Department of the Catholic University dated January 2008.
- Impact Testing to BS8200:1985, Technology Centre, Leighton Buzzard, Bedfordshire dated 16/Feb/2010.
- Proof of bearing capacity to DIN 18516-1, Friedmann & Kirchner 06/Nov/2009.
- AAMA 509-09, Test Report Ref. B8895.01-109-44 dated 05/Oct/2012.
- Jacobsen/Hunter Douglas NBK Warranty Statement
- Hunter Douglas Architectural brochure.
- Hunter Douglas Facades brochure.