

**Jacobsen® NBK Terracotta TERRART®  
Cladding System**  
**INSTALLATION GUIDE**

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**Jacobsen®**

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## GENERAL AND PRODUCT INFORMATION

### PURPOSE

This guide relates to the installation of the Jacobsen® NBK Terracotta TERRART® Cladding System.

### IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- Jacobsen® NBK Terracotta TERRART® Cladding System pass™
- the relevant Jacobsen® NBK Terracotta TERRART® details
- Jacobsen® NBK Terracotta TERRART® Cladding System Care and Maintenance guide
- Jacobsen® NBK Terracotta TERRART® Cladding System warranty.

### SKILLS REQUIRED

This guide is suitable for use by a licensed building practitioner licensed to the relevant class or by a practitioner who will be supervised by a licensed building practitioner licensed to the relevant class or deemed LBP.

### FOR MORE HELP

Technical assistance is available at [www.jacobsen.co.nz](http://www.jacobsen.co.nz).

While all reasonable efforts have been made to ensure the accuracy of information provided, this guide is a guide only. It may be subject to change.

### FOR OUR WARRANTY

Refer to [www.jacobsen.co.nz](http://www.jacobsen.co.nz).

### PRODUCT DESCRIPTION

The Jacobsen® NBK Terracotta TERRART® Cladding System is a ventilated curtain wall/rainscreen system supplied for use as an external wall façade and as an internal lining or feature wall.

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

#### The TERRART® tiles

TERRART® tiles weigh between 32 – 65 kg/m<sup>2</sup> and are classified as a medium weight cladding (refer to NZS 3604:2011, section 1.3).

TERRART® 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 <sup>2</sup> )	65	45	65	35	36

#### The TERRART® baguettes

TERRART® 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 fixing 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 and a continuous back carrier with varying cavity depth.

### SCOPE AND LIMITATIONS

For scope of use, limitations, conditions and statement of building code compliance refer to the Jacobsen® NBK Terracotta TERRART® Cladding System pass™.

## PRE-INSTALLATION

### HEALTH AND SAFETY

Take all necessary steps to ensure your safety and the safety of others:

- › ensure adequate ventilation or mechanical dust extraction when cutting or drilling
- › ensure materials are well supported when cutting
- › wear appropriate safety equipment, clothing and footwear
- › use all tools in accordance with relevant instruction manuals
- › plan and monitor a safe approach for working at height; select and use the right equipment
- › clear the work area of any obstruction before work starts.

For further information refer to:

- › WorkSafe. [July 2018] *Small Construction Sites, the Absolutely Essential Health and Safety Toolkit.*
- › WorkSafe. [December 2016] *Health and Safety at Work, Quick Reference Guide.*

These documents are available at [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

### HANDLING AND STORAGE

#### Handling

Care must be taken during loading, unloading and transporting the materials to prevent pre-installation damage.

Unload the NBK Terracotta TERRART® tiles by hand, forklift or where a crane is required leave the tiles on a pallet for base support.

Unload the suspension rails by hand or where a crane is required leave the rails in the create for base support.

Check all materials for damage.

#### Storage

Store rails undercover in a flat area, off the ground and placed on a pallet or with supports running the length of the rails.

Store tiles in their individual foam wrapping on pallets. Do not double stack pallets of tiles.

Place in a close location that is suitable for the installers.

### TOOLS AND EQUIPMENT REQUIRED

Install the systems using a laser for accuracy, confirmed by way of a level. Use standard power tools for fastenings, cutting and drilling. Where the design requires a 6 mm fibre cement rigid air barrier, use specific fibre cement cutting and dust extraction equipment. Use tools in accordance with good trade practice and supplier's instructions.

# INSTALLATION

## PREPARATION

### Step 1:

#### Access building consent documentation

Access and view building consent documentation.

Ensure NZS 3604:2011, NASH Standard Part Two: 2019, NZS 3101:2006 or NZS 4229 (as applicable) and Acceptable Solution E2/AS1 are available for reference.

### Step 2:

#### Confirm related building work

Confirm the following before beginning installation of the cladding system:

- The primary structure is constructed in accordance with the building consent and the relevant standard (NZS 3604:2011, NASH Standard Part Two: 2019, NZS 3101:2006 or NZS 4229).
- The structural substrate is within the tolerances specified in the building consent
  - maximum horizontal or vertical deviation (surface plane in any 2.0 m length) of 5 mm for structural tolerance and 3 mm for non-structural framework tolerance.
- There are adequate structural members to support the suspension rail spans and configuration.
- The underlay and/or rigid air barrier are appropriate for the site conditions, are in accordance with the building consent, have been installed in accordance with the manufacturer's instructions and are appropriately fixed.
- All penetrations are sealed through the flexible underlay and/or rigid air barrier.
- The set-out for the tiles can be achieved in accordance with the design requirements.
- The component quantities have been supplied for the design.
- The correct fasteners and quantities have been supplied for the design.
- Support centres for the suspension rails are in accordance with the span charts.

## INSTALLATION

### Step 1:

#### Access details

Access and view Jacobsen® NBK Terracotta TERRART® Cladding System details in the building consent documentation or access the relevant details from Jacobsen® [\[link to details button\]](#).

### Step 2:

#### Establish set-out

Establish the set-out lines bearing in mind the tile modules, important features and joinery placement.

### Step 3:

#### Install suspension rails, flashings and trims

Install suspension rails, flashings and trims as follows:

- a) Cut suspension rails to size, establishing the top and bottom termination and fixing points.
- b) Install vertical suspension rails ensuring that they are straight and as per the design specification. Use a laser and/or spirit level for accuracy with a maximum deviation of +/- 1 mm.
- c) Use the set-out tool for continuity of the vertical module when more than one suspension rail is required in one vertical line.

**Step 3 continued**

- d) When placing a suspension rail above a pre-attached rail, loosely attach the top rail using the slot holes punched in the top hat. Four sponges are required per tile. Do not leave the sponges exposed to sunlight for more than 24 hours.
- e) Install all flashings required for weathertightness and to maintain air tightness at openings, cladding junctions and terminations. Ensure all flashings are continuous at two-storey junctions and around all openings.
- f) Where a seismic flashing is required, the upstand must be fixed and taped to the air barrier ensuring that the tape extends over the surrounding profile.
- g) Surrounds shall be fixed to the suspension rail at a maximum of 600 mm centres with 4 x 12.5 mm rivets.
- h) Fit corner trims by fixing to the suspension rail with gussets. Allow 3 x 12.5 mm rivets for both the suspension rail and the trim.

**Step 4:**

**Fix the tiles**

Fix the tiles as follows:

- a) Establish a set-out point on the elevation. Ensure accurate horizontal lines are maintained and tile placement can begin.
- b) Install tiles onto the vertical suspension rail by initially placing the top receiver of the tile securely on the top hanger. Lift the base of the tile and tilt inwards slightly to engage the bottom hanger. Check fitment by sliding the tile.
- c) Where required cut tiles in any direction using a wet saw with a continuous rim diamond blade. Surround trims are used to capture cut tiles.
- d) Use Santoprene or aluminium tile spacers if the cut tile is not supported by the top hanger to maintain continuity.
- e) Insert vertical jointing strips. Fix mechanically using blind rivets or screws at a maximum of 600 mm centres.
- f) Brush or sponge down to remove loose material as tiles are installed.

## COMPLETION

Check to ensure all components are installed correctly and in accordance with Jacobsen® NBK Terracotta TERRART® Cladding System details.

Complete the Jacobsen® NBK Terracotta TERRART® Cladding System installation record.

Ensure the Jacobsen® NBK Terracotta TERRART® Cladding System Care and Maintenance information is available to the owner.

This document is uncontrolled in printed form. See [www.jacobsen.co.nz](http://www.jacobsen.co.nz) for current version.  
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