# 4254TW TRESPA® METEON TS10 WEATHERBOARD FACADE CLADDING

## 1. GENERAL

 If you have pre-customised this work section using the "questions and answers" provided as part of the downloading process, it may be necessary to amend some clauses to suit the final project-specific version.

 The section must still be checked and customised to suit the project being specified, by removing any other irrelevant details and adding project-specific details and selections.

 This section relates to the supply and installation of **Trespa® Meteon** TS10 Weatherboard Facade Cladding system.

 Modify or extend the above description to suit the project being specified.

 Where the cladding manufacturer prepares bracing schedules for their products, these lists should be used in preference to preparing your own bracing schedules. Include them either in the specification or on the drawings. This approach ensures the industry becomes familiar with one set of terminology for bracing elements.

 NOTE: Decortech Limited provide a design service for projects that are out of the scope of this specification.

### 1.1 RELATED WORK

 Refer to ~ for ~.

 Include cross references to other sections where these contain related work.

 Refer to appropriate rigid air barrier section.

 Refer to section 4161 UNDERLAYS, FOIL AND DPC

 **Documents**

### 1.2 DOCUMENTS

 Refer to the general 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

 NZBC B2/AS1 Durability

 [NZBC E2](http://www.masterspec.co.nz/redirect.aspx?pl=347)/AS1 External moisture

 [NZBC E2](http://www.masterspec.co.nz/redirect.aspx?pl=347)/VM1 External moisture

 [AS/NZS 1170.2](http://www.masterspec.co.nz/redirect.aspx?pl=1110) Structural design actions - Wind actions

 [AS/NZS 1170](http://www.masterspec.co.nz/redirect.aspx?pl=268).5 Structural design actions - Earthquake actions - New Zealand

 [NZS 3602](http://www.masterspec.co.nz/redirect.aspx?pl=299) Timber and wood-based products for use in building

 [NZS 3604](http://www.masterspec.co.nz/redirect.aspx?pl=301) Timber-framed buildings

 [AS/NZS 4284](http://www.masterspec.co.nz/redirect.aspx?pl=523) Testing of building facades

 ISO 105 A02 Textiles -- Tests for colour fastness -- Part A02: Grey scale for assessing change in colour

 [AS/NZS ISO 9001](http://www.masterspec.co.nz/redirect.aspx?pl=745) Quality management systems - Requirements

 EN 13501-1 Fire classification of construction products and building elements - Classification using test data from reaction to fire tests

 ISO 14001 Environmental Management Systems

 Delete from the DOCUMENTS clause any document not cited. List any additional cited documents.

 The following are related documents and if referred to in the work section need to be added to the list of DOCUMENTS.

 Refer to the following related documents when preparing this section:

 BRANZ BU 407 Walls on exposed sites

### 1.3 MANUFACTURER/SUPPLIER DOCUMENTS

 Manufacturer's and supplier's documents relating to this part of the work:

 Trespa®TS10 Exterior Solutions Technical Details

 ISO 14001:2004 Certificate of Approval RQA658417

 FAL Test Report No.T391: Compliance to AS/NZS 4284

 FAL Test Report No.T392: Compliance to NZBC E2/VM1

 LBA Durability Appraisal Report No.11976-02: Compliance to NZBC B2/AS1 Durability

 FDS Report No.FD235: System Design Review

 Trespa® Meteon® grey Scale Rating (Florida cycle) of 4-5 Trespa® Meteon®

 Trespa® Maintenance Schedule

 Trespa® TS10 Installation Manual

 Manuufacturer/supplier contact details

 Company: **Decortech Limited**

 Web: [www.decortechexteriors.co.nz](http://www.decortechexteriors.co.nz)

 Email: info@decortech.co.nz

 Freephone: 0800 211 311

 It is important to ensure that all personnel on site have access to accurate, up to date technical information on the many products, materials and equipment used on a project. In most cases individual products are not used in isolation, but form part of a building system. Also a particular manufacturer's and/or supplier's requirements for handling, storage, preparation, installation, finishing and protection of their product can vary from what might be considered the norm. Access to technical information can help overcome this potential problem.

 **Warranties**

### 1.4 WARRANTY - MANUFACTURER/SUPPLIER

 Provide a material manufacturer/supplier warranty:

 10 years: For Trespa® Meteon Facade Cladding and accessories

 - Provide warranty for TS10 facade system in the form of a site specific producer statement to commence from the date of practical completion of the contract works.

 - Provide manufacturer's warranty for the Trespa panel on the manufacturer's standard form to commence from the date of purchase.

 Refer to the general 1237 WARRANTIES for additional requirements.

 Modify or expand the clause to suit project or manufacturer/supplier requirements, options include:

 - Change the standard form to be used (check with the manufacturer/supplier, use the general section 1237WA WARRANTY AGREEMENT if required)

 - Commence the warranty from the date of purchase (check with the manufacturer/supplier)

### 1.5 WARRANTY - INSTALLER/APPLICATOR

 Provide an installer/applicator warranty:

 2 years: For installation

 - Provide warranty for the installation of the facade system in the form of a site specific producer statement (PS3 Construct) to commence from the date of practical completion of the contract works.

 Refer to the general 1237 WARRANTIES for additional requirements.

 Check general section 1237 WARRANTIES for the date of commencement of warranties; which is normally practical completion of the contract. Refer to the chosen conditions of contract as it may also contain information on warranties/guarantees.

 **Requirements**

 Contact Decortech Limited for technical advice before proceeding with specification of Trespa and Profix system.

### 1.6 QUALIFICATIONS

 Installers to be approved installers only trained and approved by Decortech Limited. If requested provide evidence of qualification / experience prior to commencing work.

 Contact Decortech for a list of approved installers.

### 1.7 NO SUBSTITUTIONS

 Substitutions are not permitted to any specified system, or associated components and products.

### 1.8 SAMPLES

 Refer to the general 1270 CONSTRUCTION for details of how samples will be reviewed.

 Provide the following samples for review by the Contract Administrator:

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 The general section 1270 CONSTRUCTION describes how samples are to be addressed. Use this clause to describe specific requirements for the samples and prototypes.

### 1.9 FIELD MEASUREMENTS

 Verify actual measurements/openings by field measurements performed by the installer prior to release for fabrication. Recorded measurements to be indicated on shop drawings based on field measurements provided by the installer. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

### 1.10 SHOP DRAWINGS

 Refer to the general 1235 SHOP DRAWINGS for the requirements for submission and review and the provision of final shop drawings.

 The general 1235 SHOP DRAWINGS describes the process of submission and review of shop drawings. Use this clause to describe the specific requirements of what the required shop drawings are to include.

### 1.11 PROJECT CONDITIONS

 Ensure environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits, particularly the adhesive.

### 1.12 MAINTENANCE REQUIREMENTS

 Provide relevant Trespa® Meteon maintenance requirements at completion of the work to the contract administrator.

 **Compliance information**

### 1.13 INFORMATION REQUIRED FOR CODE COMPLIANCE

 Provide the following compliance documentation: -

 - Manufacturer's and system suppliers warranty

 - PS3 Producer Statement Construct

 - Other information required by the BCA in the Building Consent Approval documents.

 List the Producer Statements - Construction (PS3's) required from installers that are required as a condition of carrying out this work.

 Producer Statement - Design (PS1), may be required where certain design work is undertaken by the Contractor or manufacturer / importer / distributor.

 **Performance**

 The following clause sets the wind design parameters which can use, within the scope of Trespa Meteon standard details. Modify the clause for specific design beyond these parameters.

### 1.14 PERFORMANCE, SPECIFIC DESIGN, WIND

 The design wind pressures are toAS/NZS 1170.2, for specific design wind zone (beyond Very High Wind Zone). Only specifically designed or approved details included in the Contract Documents can be used.

 Use this clause for specific design, beyond Very High Wind Zones or very high wind areas of tall buildings.

 If the manufacturer's details do not go beyond Very High Wind Zones. Ensure all specific design details are checked by the manufacturer during the design stage. Modify this section to reflect their requirements.

 Delete this clause if using the PERFORMANCE, WIND clause.
Note: NZS 3604:2011 now includes Extra High Wind Zone; check with Manufacturer for Extra High conditions.

 Refer to Decortech for specific wind load tolerances for the system.

### 1.15 PERFORMANCE, VERY HIGH WIND

 The design wind pressures are to AS/NZS 1170.2. This is within the scope of the manufacturer's literature and details. The manufacturer's systems are rated as follows.

|  |  |  |
| --- | --- | --- |
| Up to; | ~ Pa SLS | ~ system |
|  | ~ Pa ULS | ~ system |

 Use this clause for projects higher than very high wind zones, where manufacturers systems are also rated higher than NZS 3604. Beyond these pressures ensure all specific design details are checked by the manufacturer during the design stage. Modify this section to reflect their requirements.

 Note; greater than 1550Pa ULS is beyond Very High Wind Speed in NZS 3604.

 Note: NZS 3604:2011 now includes Extra High Wind Zone; check with Manufacturer for Extra High conditions. Greater than 1820Pa ULS is beyond Extra High Wind Speed in NZS 3604:2011.

 Refer to Décortech for specific wind load tolerances for the system.

 **Quality control and assurance**

### 1.16 QUALITY ASSURANCE

 Refer to Decortech Limited for Trespa® Meteon quality control and assurance requirements.

## 2. PRODUCTS

 **Materials**

### 2.1 TRESPA® METEON WEATHERBOARD FACADE CLADDING

 Trespa® Facade Cladding, a 10mm thick flat panel based on thermosetting resins, homogeneously reinforced with wood fibres, manufactured under high pressure and high temperature. The cladding panels have an integral decorative surface using Electron Beam Cured technology. UV resistance and colour stability complies with ISO 105 A02. Fire classified to EN 13501-1. Facade Cladding system to be tested to [AS/NZS 4284](http://www.masterspec.co.nz/redirect.aspx?pl=523) and NZBC E2/VM1. Refer to Profix TS10 TW-TYP-PR for profile options. Panel produced from available master sheet sizes in widths from 150mm to 750mm and lengths up to 3630mm.

 Suitable for use as a residential or commercial cladding facade up to four levels high.

### 2.2 MOUNTING RAILS

 Profix TS10 aluminium rails for forming proprietary cavity system. Architectural aluminium grade alloy is alloy 6060 temper T5.

 Refer to Decortech Limited for detailed drawings.

 **Components**

### 2.3 SCREWS FOR TS10 FIXING

 32mm x 10G stainless steel pan head screws. Refer to Trespa® Meteon fixing details.

### 2.4 SCREWS FOR TS10 PANELS

 60mm and 40mm x 10G stainless steel 304 wafer head screws colour matched to panel. Refer to Trespa® Meteon fixing details.

### 2.5 RIGID AIR BARRIERS

 Refer to appropriate rigid air barrier section. To [NZBC E2](http://www.masterspec.co.nz/redirect.aspx?pl=347)/AS1, tables 20-24.

 Refer to Decortech Limited for further information on tested RAB options.

 **Accessories**

### 2.6 FLASHING GASKETS

 Santoprene (material) butterfly backing gaskets to TS10 horizontal mounting rails and TS42 vertical jamb rails.

### 2.7 FOAM TAPE

 Apply 6mm thick x 30mm wide continuous foam tape to the inner face of TS42, TS43, TS44 and TS45 vertical rails.

 Refer to Profix TS10 technical details for further information.

## 3. EXECUTION

 **Conditions**

### 3.1 STORAGE

 Take delivery of products dry and undamaged on pallets, and keep on pallet. Protect edges and corners from damage and covered to keep dry until fixed.

 Store products in an enclosed area protected from direct sunlight, moisture and heat. Maintain a consistent temperature and humidity. Store products in manufacturer's unopened packaging until ready for installation.

 Stack panels using protective dividers to avoid damage to decorative surface. Do not store sheets, or fabricated panels vertically.

### 3.2 HANDLING

 Avoid distortion and contact with potentially damaging surfaces. Do not drag sheets across each other, or across other materials. Protect edges, corner and surface finish from damage. Remove protective film within 24 hours of the panels being removed from the pallet. Remove all labels and stickers immediately after installation.

### 3.3 SUBSTRATE

 Do not commence work until the substrate is of the standard required for the specified finish; plumb, level and in true alignment. Moisture content of timber framing must not exceed the requirements specified by [NZS 3602](http://www.masterspec.co.nz/redirect.aspx?pl=299) to minimise shrinkage and movement after rigid air barrier is fixed. Structural framing to [NZS 3604](http://www.masterspec.co.nz/redirect.aspx?pl=301) or to specific design. Surfaces to receive panels shall be even, smooth, dry, and free from defects detrimental to the installation of the panel system.

 Notify Contractor in writing of conditions detrimental to proper and timely completion of the work. If substrate preparation is the responsibility of another installer, notify the contract administrator of unsatisfactory preparation before proceeding. Do not proceed with installation until unsatisfactory conditions have been corrected.

 **Application - generally**

### 3.4 RIGID AIR BARRIER

 Refer to appropriate rigid air barrier section for the supply and fixing details.

 Refer to Decortech Limited for further information on tested RAB options.

### 3.5 PENETRATIONS AND FLASHINGS

 Confirm that exterior wall openings have been prepared ready for the installation of all window and door frames and other penetrations through the cladding. Required preparatory work includes the following:

 - air barrier appropriately incorporated with penetration and junction flashings.

 - materials lapped in a way that water tracks away from the exterior face of the air barrier.

 - air barrier at openings finished and dressed off ready for the installation of window and door frames and other penetrations.

 - Installation of flashings (those required to be installed prior to installation of penetrating elements).

 - install "Vanluk" seals to all penetrations in accordance with manufacturer's details.

 Refer to Profix TS10 technical details for information on window flashing details.

 **Installation**

### 3.6 PROFIX RAIL SYSTEM

 Fix TS10 Profix Rail system in accordance with suppliers installation manual and technical details.

### 3.7 TRESPA METEON TS10 WEATHERBOARD FACADE CLADDING

 Fix Trespa® Meteon TS10 Weatherboard Facade Cladding to aluminium rails in accordance with Decortech Technical Details and Installation Manual. Install Trespa® Meteon Weatherboard Facade Cladding plumb and level and accurately spaced in accordance with manufacturer's recommendations and approved drawings.

 Do not cut or trim component parts during installation in a manner that would damage the finish, decrease the strength, or result in visual imperfection or a failure in performance.

 **Completion**

### 3.8 REPLACE/REPAIR

 Repair panels with minor damage. Remove and replace panels damaged beyond repair as a direct result of the panel installation. After installation, panel repair and replacement shall become the responsibility of the Main Contractor.

 Remove masking or panel protection as soon as possible after installation. Any masking intentionally left in place after cladding installation on an elevation, shall become the responsibility of the Main Contractor to remove.

### 3.9 CLEANING

 Clean finished surfaces as recommended by the cladding manufacturer. After installation cleaning during construction shall become the responsibility of the Main Contractor.

 Clean site work areas of offcuts, waste materials and all rubbish associated with the facade instalation and dispose of according to site arrangements.

 Clean in accordance with supplier's maintenance schedule.

### 3.10 PROTECTION

 Provide the following temporary protection of the finished work:

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 Amend this clause if protection is required from, weather, water, dust, damage, etc. Refer to the general section 1270 CONSTRUCTION for removal as part of final clean.

 If special protection is required or protection is to be supplied by others, make reference in this clause to the general section 1250 TEMPORARY WORKS & SERVICES clause SPECIAL PROTECTION.

## 4. SELECTIONS

 For further details on selections go to [www.decortechexteriors.co.nz](http://www.decortechexteriors.co.nz).

 Substitutions are not permitted to the following, unless stated otherwise.

 Select the options to suit the project and delete options not specified.

### 4.1 FACADE CLADDING

 Location: ~

 Brand: Trespa® Meteon TS10 Weatherboard Facade Cladding

 Panel width: ~

 Panel length: ~

 Thickness: 10mm

 Colour: ~

 Sample panel: Required

 Options:

 Panel width: Available in widths 150mm to 750mm, refer to Decortech Limited for details.

 Panel length: Available in lengths 2530mm, 3030mm, 3630mm

 Colour: Refer to Decortech Limited for colour range.

### 4.2 PROFIX RAILS

 Type: TS10 aluminium rails

 Extrusions: TS42-46 Ref: TW-TYP-FLG

 Fastener type: 10G stainless steel pan head screws.

 Colour: ~

 Options:

 Colour: Black anodised, refer to Decortech Limited for special colour options.

IMPORTANT NOTES

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|  |
| 1. **TRESPA® METEON** Panel lead time is 12 weeks from date of order. |
| 2. **TRESPA® METEON** Panels must be installed by a Décortech accredited Installer. |