

FRONTEK® CERAMIC TILES

frontek

PURPOSE

The Building Agency supplies Frontek® Ceramic Tiles to be used as an external wall cladding.

EXPLANATION

Frontek® Ceramic Tiles are extruded, hollow, vitrified ceramic tiles for use in a ventilated façade system. The tiles are fixed using a proprietary system comprising stainless steel clips, fixed to extruded aluminum horizontal guides.

The tiles, Superplus, Omega Superplus, Plus and Omega Plus, are available in a range of colours and textures.

Frontek® Ceramic Tiles are available in the following sizes:

- Thickness (mm): 19
- Width (cm): 24.7, 40.5, 49.7, 60
- Length (cm): 80, 100, 160.



For further assistance
please contact:

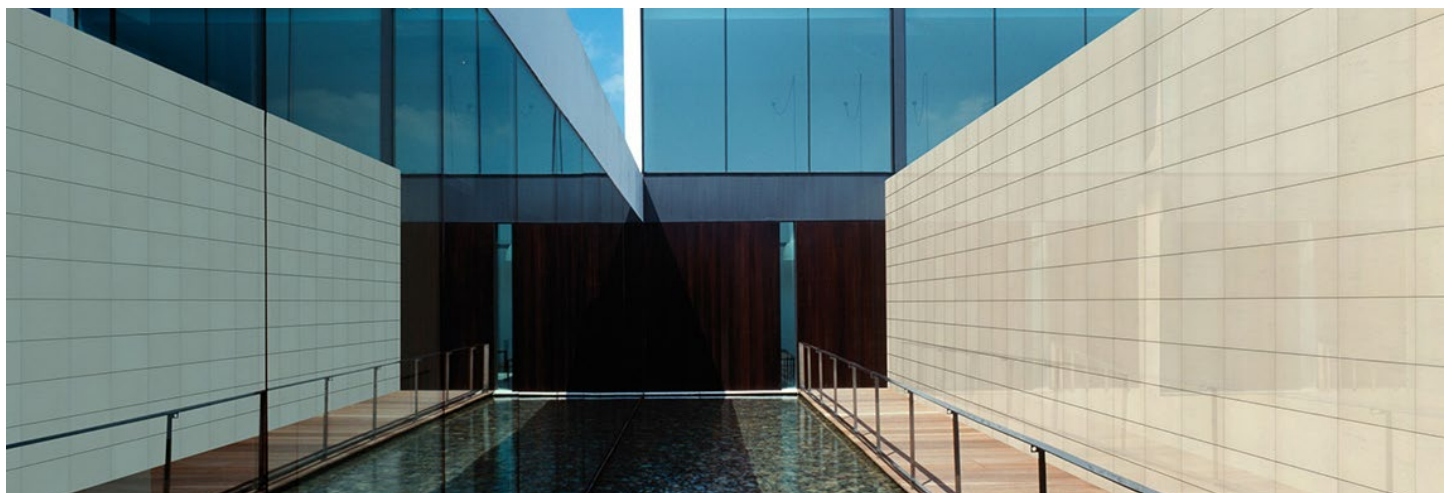
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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location Up to and including extra high wind zone as defined in NZS 3604:2011 or a calculated design wind pressure (ULS) 5.0 kPa. In all exposure zones as defined by NZS 3604:2011. On buildings located any proximity to a relevant boundary.	<ul style="list-style-type: none"> ➤ All fixings must comply with E2/AS1 (Table 20 and 21) for the appropriate exposure zone as defined in NZS 3604:2011, section 4. ➤ Where microclimatic conditions apply as defined in section 4.2.4 of NZS 3604. ➤ Where fire resistance rating (FRR) is required, its use is subject to specific fire design.
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.	<ul style="list-style-type: none"> ➤ The substrate is subject to specific design in respect of Clause E2 (External moisture).

CONDITIONS

The specification and installation must be carried out or supervised by suitably qualified practitioners.



USEFUL INFORMATION

For design, installation and maintenance information, refer to thebuildingagency.co.nz.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Building Agency requirements, Frontek® Ceramic Tiles will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q), B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ETA 15/0262 and ETA 15/0916 confirm that the Frontek® Ceramic Tiles, when installed, meet the ETAG specification for ventilated wall claddings. These requirements also meet the Building Code requirements in respect of B1 (structure). Lateral racking testing confirm seismic SLS in-plane deflection is within 20 mm. [FacadeLab, 12/2020].
B2 DURABILITY B2.3.1 (b)	VERIFICATION METHOD B2/VM1	<ul style="list-style-type: none"> Stainless steel and aluminium are suitable for use in all corrosion zones. ETA 15/0262 and ETA 15/0916 establishes that the ceramic tiles are not affected by freeze-thaw cycles. Ceramic tiles have a history of use in NZ and are resistant to UV radiation, chemical and biological attack.
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.5, C3.7 (a)	ACCEPTABLE SOLUTION C/AS1 C/AS2 1st Edition June 2019	<ul style="list-style-type: none"> Tested for combustibility in accordance with ISO 1530 by NATA accredited laboratory. Material not deemed combustible [CSIRO Infrastructure Technologies, 29/04/2020]. Tested in accordance with ISO 5660, by NATA accredited laboratory. Material classified as Group 1 [AWTA Product Testing, 15/11/2017].
E2 EXTERNAL MOISTURE Contributes to E2.3.2	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ETA 15/0262 and ETA 15/0916 confirms that Frontek® Ceramic Tiles, when installed, contribute to the management of external moisture. Tested to AS/NZS 4284 by an IANZ accredited laboratory [FacadeLab, 18/12/2020].
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Meets EN ISO 14.021, which confirms that the tiles do not contain or emit harmful materials.

SOURCES OF INFORMATION

- Instituto de Ciencias de la Construcción [23/11/2015] European Technical Assessment [ETA] [15/0916] *Frontek® Plus and Frontek® Omega Plus. External Wall Claddings.*
- Instituto de Ciencias de la Construcción [23/11/2015] European Technical Assessment [ETA] [15/0262] *Frontek® SuperPlus and Frontek® Omega SuperPlus. External Wall Claddings.*
- Frontek® cerámica tecnológica en fachadas [05/2015] *Super Plus System.*
- FacadeLab [18/12/2020]. *AS/NZS 4284-2008. Testing of Building Facades. Test Report 20-10.*
- Greco Gras [nd]. *EN ISO 14021 Ecolabel Class I Environmental labels and declarations.*
- SPS Building Ltd [14/09/2017] *Frontek® Façade System Product Technical Statement.*
- Applus [3/11/2014] Report no. 14/911-1705 ENAC Certification.
- Applus [19/01/2018] Test Report 17/15740-2362. AS 1530.1-1994

Methods for fire test on building materials, components and structures. Part 1: Combustibility test for materials.

- Venatto Design S.L. [01/01/2015] DdP Num 0302 *Declaration of Performance.*
- AWTA [15/11/2017] Test Number 17-005919 ISO 5660.1:2015 *Reaction to Fire Tests. Heat Release, Smoke Production and Mass Loss Rate. Part 1: Heat Release Rate and Smoke Production Rate.*
- CSIRO Infrastructure Technologies. [29/04/2020] *Combustibility test for materials in accordance with AS 1530.1-1994.* Reference NC8297.

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thebuildingagency.co.nz/products/



1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 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. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

The Building Agency Ltd confirms that if Frontek® Ceramic Tiles are used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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NZBN: 9429042373131

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of The Building Agency Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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