LIMESTONE RANGE

BUILDING PRODUCT INFORMATION REQUIREMENTS (BPIR) – CLASS 1

This document is intended to provide the building product information required for a Class 1 designated building product under the (Building Product Information Requirements) Building Regulations 2022.

Product Name:	**LIMESTONE RANGE - VARIOUS COLOURS/FINISHES/SIZES/THICKNESS**
Product Identifier:	Refer to tile name and product code on paperwork/packaging.
Product Description:	A glazed porcelain tile and a water absorption rate of less than 0.50% designed as a finished product to complete the chosen aesthetic of a building project.
Intended Use:	Porcelain tiles from this range can be installed in line with NZ Building Code requirements and BRANZ best practices. Porcelain tiles are an aesthetic finish to a surface not intended to be load bearing or structural.
Country of Origin:	Italy

Building Code Obligations

Within the intended scope of use, the existing European Ceramics BPIR identifies the following Building Code clauses as potentially relevant. Applicability depends on the actual location and design use:

- B2 – Durability (including B2.3.1)
- C3 – Fire affecting areas beyond the source
- D1 – Access routes (including D1.3.3)
- E3 – Internal moisture (including E3.3.2, E3.3.3 and E3.3.4)
- G3 – Food preparation and prevention of contamination (including G3.3.2)
- G6 – Airborne and impact sound (including G6.3.1 where applicable)

Importer Details:
European Ceramic Tiles Ltd
Address: 7A Cowley Place, Rosedale, AKL 0632
NZBN: 9429037294571
Website: euroceramics.co.nz

Note – this building product is not subject to a warning/ban under Section 26 of the Building Act 2004

Building Code References

B2 – Durability

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

C3 – Fire affecting areas beyond the source

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining.

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

D1 – Access routes

For D1 access routes, in most cases product-related compliance for access routes is slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

E3 – Internal Moisture

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or damage to adjacent buildings or structural elements in the building in which it is installed.

Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

G3 – Food preparation and prevention of contamination

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious. G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

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G6 – Airborne and Impact Sound
For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: "The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55" and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.

Limitations of Use

Product technical/specification sheets from manufacturers outline composition details and characteristics including material, finishes, PEI ratings, size (including variations, calibrations, weights) colour and slip ratings. Tiles are a finishing product, consented plans or specification should be referred to in order to outline the details of suitability with regard to NZBC requirements.

Suitability *	***Residential***	***Light Commercial***	***Commercial***
Indoor Floor	*	*	*
Indoor Walls	*	*	*
Outdoor Cladding	*	*	*
Frost Resistant	*	*	*
Swimming Pool Submerged	*	*	*
Swimming Pool Surround	*	*	*
Paving/External	*	*	*
Over Underfloor Heating	*	*	*
Kitchen wall	*	*	*
Within 1.5m of a Plumbing Fixture or Fitting	*	*	*

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Manufacturer Information

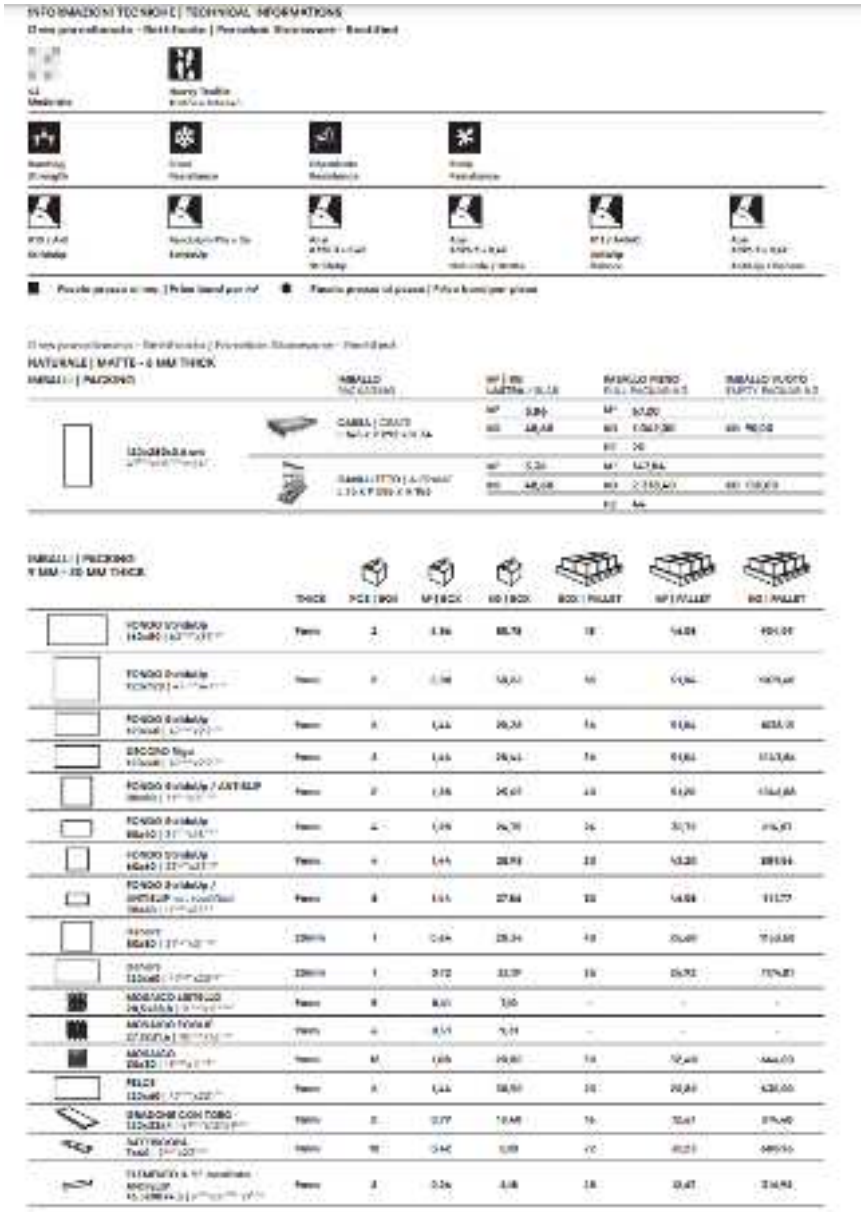
Address: V. Radici in Piano, 355, 41043 Formigine MO, Italy

Website: https://www.italgranitigroup.com/it

Email Address: https://www.italgranitigroup.com/en/contattaci

Technical Information

Product catalogue & technical/specification sheets for each range can be located Click here



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Conforming to Standards **EN 14411 ISO 13006 APPENDICE G GRUPPO BIa UGL con Ev ≤ 0,5%**

CARATTERISTICA TECNICA PHYSICAL PROPERTIES TECHNISCHE DATEN CARACTERISTIQUE TECHNIQUE	METODICA DI PROVA TESTING METHOD PRUFVERFAHREN NORME D'ESSAIS	RIFERIMENTO NORMA REFERENCE STANDARD REFERENCE NORME STANDARDWERT			VALORE PRODOTTO PRODUCT VALUES PRODUKT WERTE VALEUR PRODUIT
			Tom.e N ÷ 15 cm (mm)	N a 15 cm (%) (mm)	
Dimensioni Sizes Abmessungen Dimensions	EN ISO 10545-2	Lunghezza e larghezza - Length and width - Longe and Breite Longueur et largeur	±0.9	±1.6 ±2.0	Rettificato / Rectified
		Spessore - Thickness - Stärke - Epaisseur	±0.5	±5.0 ±0.5	
		Rettilineità spigoli - Linearity - Kantengeradheit - Rectitude des crêtes	±0.75	±2.5 ±1.5	
		Ortogonalità - Wedging - Rechtwinkligkeit - Orthogonalité	±0.75	±2.5 ±2.0	Conforme Conforming Erfüllt Conforme
		Planarità - Warpage - Ebenflächigkeit - Planéité	±0.75	±2.5 ±2.0	
		Aspetto: percentuale di piastrelle accettabili nel lotto - appearance: percentage of acceptable tiles, per lot oberflächenbeschaffenheit: prozentsatz der fliesen, die den gefordelten eigenschaften entsprechen - aspect: pourcentage de carreaux acceptables sur	95 % min.	95 % min.	-
Assorbimento d'acqua % - Water absorption % Wasseraufnahme % - Absorption d'eau %	EN ISO 10545-3	Ev ≤ 0,5%			Conforme - Conforming Erfüllt - Conforme
Resistenza alla flessione - Modulus of rupture Biegezugfestigkeit - Résistance à la flexion	EN ISO 10545-4	Valore medio 35 N/mm2 min.			Conforme - Conforming Erfüllt - Conforme
Sforzo di rottura - Breakage resistance Bruchlast - Resistance à la rupture		up. > ÷ 75 mm: min 1300 N up. < 75 mm: min 700 N			Conforme - Conforming Erfüllt - Conforme
Resistenza all'abrasione profonda - Scratch resistance Bestimmung des Widerstandes gegen tiefen Verschleiß - Résistance à l'abrasion	EN ISO 10545-6	175 mm3 max.			Media - Average Mittelwert - Moyenne ≤ 150 mm3
Coefficiente di dilatazione termica lineare - Thermal expansion coefficient - Wärmeausdehnung - Coefficient de dilatation thermique linéaire	EN ISO 10545-8	Valore dichiarato - Declared value - Valeur déclaré - Valor declarado			≤ 8 MK-1
Resistenza agli sbalzi termici - Thermal shock resistance - Temperaturwechselbeständigkeit - Résistance aux écarts de température	EN ISO 10545-9	Test superato in accordo con ISO 10545-1 - Pass according to ISO 10545-1 Pv en accord avec norme en 10545-1 - Test ueberstanden nach ISO 10545-1			Resistente - Resistant Widerstandsfähig - Résistants
Resistenza al gelo - Frost resistance Frostbeständigkeit - Résistance au gel	EN ISO 10545-12	Test superato in accordo con ISO 10545-1 - Pass according to ISO 10545-1 Pv en accord avec norme en 10545-1 - Test ueberstanden nach ISO 10545-1			Resistente - Resistant Widerstandsfähig - Résistants
Resistenza a basse concentrazioni di acidi e alcali Resistance to low concentrations of acids and alkali - Résistance à des basses concentrations d'acides et bases - Beständigkeit gegen schwach konzentrierte säuren und laugen	EN ISO 10545-13	Valore dichiarato - Declared value - Valeur déclaré - Angegebener Wert			Resistente - Resistant Widerstandsfähig - Résistants
Resistenza ad alte concentrazioni di acidi e alcali Resistance to high concentrations of acids and alkali Résistance à des hautes concentrations d'acides et bases Beständigkeit gegen stark konzentrierte säuren und laugen		Valore dichiarato - Declared value - Valeur déclaré - Angegebener Wert			Resistente - Resistant Widerstandsfähig - Résistants
Resistenza ai prodotti chimici di uso domestico e agli additivi per piscine - Resistance to domestic chemicals and additives for swimming pools - Résistance aux prod. chimiques d'usage domestique et additifs pour piscines Beständigkeit gegen chemische haushaltsreiniger und zusatzstoffe für schwimmbäder		UB min.			UA
Resistenza alle macchie di piastrelle non smaltate naturali - Stain resistance of unglazed matte porcelain Fleckenbeständigkeit von unglasierten natur Fliesen Résistance aux taches des carreaux non émaillés naturel	EN ISO 10545-14	Valore dichiarato - Declared value - Valeur déclaré - Angegebener Wert			Resistente - Resistant Widerstandsfähig - Résistants
Resistenza allo scivolamento Slip resistance Rutschfestigkeit Résistance au dérapage	EN 14565	Annex A			Valore disponibile a richiesto Value available upon request Wert auf Anfrage verfügbar Valeur disponible sur demande
		Annex B			Valore disponibile a richiesto Value available upon request Wert auf Anfrage verfügbar Valeur disponible sur demande
	B.C.R.A. - D.M.236 / 89	Dove richiesto - If needed - Nach anforderung - Si demande			> 0,40 Dry / > 0,40 Wet
	ANSI A326.3 D.COF	Dove richiesto - If needed - Nach anforderung - Si demande			≥ 0,42 Wet

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Fire Resistance

The building code relating to fire rating regulations and standards requires specifiers to provide documentation such as fire certificates for materials used in construction.

Ceramics are in itself a fire-resistant material, mostly being manufactured at over 1200 degrees Celsius. Testing and providing such certification are therefore not relevant to the Ceramics industry.

Ceramic and Porcelain tiles are an inert material, and therefore non-combustible. They do not release fumes or toxic gases in the event of a fire. Porcelain tiles contain no sealants, waxes or other chemicals that could release VOC's into the environment. Ceramics do not pose a risk of spreading or intensifying a fire therefore there is no testing required as they do not contribute to a fire.

EXTRAORDINARY EFFECTS DURING USE PHASE:
Fire: According to /EN 13501-1:2007+A1:2009/, ceramic tiles can be classified as A1 class of fire resistance rating, because they do not contribute to fire.
It has been demonstrated that the coating of the ceramic tiles, in case of fire, reduces heat on them and thus the risk of collapse.
Water: Ceramic tiles cannot react with water because they are an insoluble material.

For further information on the fire performance characteristics of ceramic/porcelain tiles or natural stone, please follow this link

Design Requirements

- The designer/specifier must confirm that the selected product colour, finish, size and thickness is suitable for the intended location and service conditions.
- Floor finishes must be selected with regard to the required slip resistance for the intended use, including access routes and wet areas where applicable.
- The supporting substrate and complete tile system must be designed to be sufficiently stable, rigid, level and suitable for the tile format and loading.
- Wet-area design must include the required waterproofing system, falls, drainage, junctions and penetrations. Tiles and grout are not to be relied upon as the waterproofing system.
- Movement/control joints must be incorporated where required by the substrate, building movement, tile layout and installation system.
- For underfloor heating, the heating system, substrate, adhesive, grout and movement-joint design must be compatible with porcelain tile and the relevant manufacturers' requirements.
- For external cladding or other specialist applications, project-specific design, fixing, wind/seismic actions and system compatibility must be verified before installation.
- Natural variation in shade, caliber and appearance should be considered when approving samples and setting out the installation.

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Installation Requirements

- Installation must be carried out by a competent tile installer in accordance with NZ standards & the BRANZ best tiling practices guide, the tile manufacturer's instructions and the installation-product manufacturers' instructions.
- Confirm the product identity, colour, finish, size, calibration and quantity before installation. Do not install visibly damaged or incorrect tiles.
- The substrate must be sound, clean, dry as required by the selected system, adequately cured, dimensionally stable, level and free of contaminants that may impair adhesion.
- Where waterproofing is required, install an appropriate waterproofing system before tiling and complete all junctions, penetrations and terminations in accordance with the waterproofing manufacturer's requirements.
- Select adhesive and grout suitable for porcelain tile, tile format, substrate, environment and service conditions. Follow the adhesive/grout manufacturer's mixing, open-time, coverage and curing requirements.
- Provide adhesive coverage appropriate to the application and tile format. Large-format and external/specialist installations may require additional measures to achieve adequate support and coverage.
- Provide movement joints and perimeter joints where required; do not bridge structural or substrate movement joints with rigid tile finishes.
- Maintain appropriate joint widths and setting-out tolerances. The supplier technical sheet included in the existing BPIR should be consulted for product-specific joint guidance.
- Protect the completed installation from traffic, moisture, impact and other loads until the adhesive, grout, sealants and associated systems have cured.
- For further installation information please refer to this link for porcelain, ceramic & natural stone.

Maintenance Requirements

- Clean routinely using clean water and a suitable neutral or manufacturer-approved tile cleaner. Follow the cleaning-product manufacturer's instructions.
- Remove spills and contaminants promptly. Cleaning frequency should reflect the location, traffic and contamination level.
- Do not use cleaning methods or chemicals that may damage grout, sealants, adjacent materials or any decorative/special surface finish. Confirm chemical compatibility before use.
- Avoid abrasive tools or cleaning methods that may scratch or alter the surface appearance.
- Maintain grout, flexible sealant and movement joints. Inspect them periodically and repair or replace deteriorated material where necessary.
- Where slip resistance is important, maintain the surface so that residues, oils, soap, coatings or other contaminants do not materially reduce slip performance.
- For further maintenance information please refer to this link for porcelain, ceramic & natural stone.

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