



European
Ceramics

ARKIGEO 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:	ARKIGEO 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.

<i>Suitability *</i>	<i>Residential</i>	<i>Light Commercial</i>	<i>Commercial</i>
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: Via Emilia Romangna 7, 41049 Sassuolo, Modena (MO) Italy

Website: www.marcacorona.it

Email Address: info@marcacorona.it

Technical Information

Product catalogue & technical/specification sheets for each range can be located [Click here](#)

IMBALLI PACKAGING	Pcs/Box	Mq/Box	Kg/Box	Box/Pallet	Mq/Pallet	Kg/Pallet
120x278 cm rett. / 46"x10" rect.	1	3.34	49.0	18	60.05	892
120x120 cm rett. / 46"x48" rect.	2	2.880	62.50	20	57.60	1250
60x120 cm rett. / 24"x48" rect.	2	1.440	27.80	36	50.40	973
60x60 cm rett. / 24"x24" rect.	3	1.08	21.5	40	43.2	860
30x60 cm rett. / 18"x24" rect.	7	1.26	25.6	40	50.4	1024
Chevron 75x45 cm / 3"x18"	26	0.88	17.9	66	49.14	1002
60x120 cm Hithick rett. / 24"x48" Hithick rect.	1	0.72	32.1	36	25.2	1123
Battiscopa 72x60 cm rett. / 3"x24" rect.	12	7.2 ml	10.4	60	57.6 ml	835
Scalino 120x33x4 cm rett. / 46"x13"x1.5" rect.	2	0.79	20.6	-	-	-
Ang. Scalino 120x33x4 cm rett. / 46"x13"x1.5" rect.	1	0.4	12.3	-	-	-
Elemento Ele. Grp 60x60x4 cm / 24"x24"x1.5"	8	4.8 ml	20	28	134 ml	359



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Gres porcellanato / Porcelain tiles

EN 1443 (ISO 10545) secondo le C. Nazionali (D. L. n. 135) / Annex G, Group B1, L n. 135

Caratteristiche Tecniche / Technical Characteristics			Norma o metodo / Norms	Requisiti per misura nominale N. Requirement for nominal size N.			Valore medio Average value			
				7 mm ≤ N < 15 cm		N ≥ 15 cm	ARKIGEO			
				(mm)	(%)	(mm)	Natura Matr.	2002/8 dIN100	Grip	Strutturale Metodo 3D mm
	Lunghezza e Larghezza. Length and width.	R ⁺ NR ⁺	ISO 10545-2	± 0,4 mm ± 0,3 mm	± 0,3% ± 0,4%	± 1,0 mm ± 2,0 mm	Conforma. Satisfies for Conforma. Satisfies for			
	Rettilineità spigoli. Straightness of sides.	R ⁺ NR ⁺		± 0,4 mm ± 0,5 mm	± 0,3% ± 0,5%	± 0,8 mm ± 1,5 mm	Conforma. Satisfies for Conforma. Satisfies for			
	Ortogonalità. Rectangularity*.	R ⁺ NR ⁺		± 0,4 mm ± 0,5 mm	± 0,3% ± 0,5%	± 1,0 mm ± 2,0 mm	Conforma. Satisfies for Conforma. Satisfies for			
	Planarità. Flatness.	R ⁺ NR ⁺		± 0,5 mm ± 0,6 mm	± 0,4% ± 0,5%	± 1,5 mm ± 2,0 mm	Conforma. Satisfies for Conforma. Satisfies for			
	Spessore. Thickness.	ISO 10545-2		Valore dichiarato dal produttore. Value declared by the manufacturer.			Conforma. Satisfies for			
	Assorbimento % d'acqua. Water Absorption.	ISO 10545-3		E ≤ 0,5%			Conforma. Satisfies for			
	Sforzo di rottura. Breaking strenght.	ISO 10545-4		(Spessore ≤ 7,5 mm) S ≥ 1000 N (Thickness ≤ 7,5 mm) S ≥ 1000 N (Spessore > 7,5 mm) S ≥ 200 N (Thickness > 7,5 mm) S ≥ 200 N			S ≥ 1800 N S ≥ 1000 N	- -	S ≥ 1800 N -	S ≥ 10000 N -
	Modulo di rottura. Modulus of rupture			R ≥ 35 N/mm²			R ≥ 40 N/mm²			
	Resistenza all'abrasione profonda. Deep scratch resistance.	ISO 10545-6		≤ 175 mm³			≤ 100 mm³	≤ 150 mm³	≤ 100 mm³	≤ 150 mm³
	Resistenza all'abrasione superficiale (PEI). Scratch resistance (PEI).	ISO 10545-7		Secondo la classificazione indicata dal fabbricante. Manufactured to state classification			-	-	-	-
	Coefficiente di dilatazione termica lineare. Linear heat expansion coefficient	ISO 10545-8		Valore dichiarato (ISO 10545-8 metodo di prova disponibile) Declared value (ISO 10545-8 test method available)			≤ 7 (ppm) °C			
	Resistenza agli shock termici. Thermal shock resistance.	ISO 10545-9		In accordo con la EN ISO 10545-1 (ISO 10545-1 metodo di prova disponibile) In accordance with EN ISO 10545-1 (ISO 10545-1 test method available)			Resista. Resistant.			
	Resistenza al gelo. Frost resistance.	ISO 10545-12		In accordo con la EN ISO 10545-1 (ISO 10545-1 metodo di prova disponibile) In accordance with EN ISO 10545-1 (ISO 10545-1 test method available)			Resista. Resistant.			
	Coefficiente di attrito dinamico. Dynamic friction coefficient.	ROFA μ ≥ 0,40		D.M.I. Gruppo M80 n. 236 (μ ≥ 0,40)			> 0,40	> 0,40	> 0,40	> 0,40
	Coefficiente di attrito dinamico. Dynamic friction coefficient.	D.O.F. Test (ROF 3000)		In funzione dell'ambiente e della zona di lavoro. Based on the environment or on the working area			≥ 0,50 WET	≥ 0,40 WET	≥ 0,55 WET	≥ 0,55 WET
	Resistenza allo scivolamento. Slip resistance.	DIN EN 15195 and C (or Pendul test)		Bassa potenziale di scivolamento. Low slip risk. ≥ 36 Acetato / ≥ 35 Ruggine ≥ 36 Dry / ≥ 36 Wet			≥ 36 DRY ≥ 36 WET	-	≥ 36 DRY ≥ 36 WET	≥ 36 DRY ≥ 36 WET
	Classificazione antiscivolo (Piedi calzati). Non-slip classification (Shod feet).	DIN EN 15195 and B (or DIN 51130)		In funzione dell'ambiente e della zona di lavoro. Based on the environment or on the working area			RII	RII	RII	RII
	Classificazione antiscivolo (Piedi nudi). Non-slip classification (Barefoot).	DIN EN 15195 and A (or DIN 51130)		Secondo la classificazione indicata dal fabbricante. Manufactured to state classification			A+B	-	A+B+C	A+B+C
	Resistenza ai prodotti chimici di uso domestico ed agli additivi per piscina. Resistance to household chemicals and swimming pool salts.	ISO 10545-13		Classe B min Class B min			A	A	A	A
	Resistenza a basse concentrazioni di acidi e alcali. Resistance to low concentrations of acids and alkalis.			Valore dichiarato (ISO 10545-13 metodo di prova disponibile) Declared value (ISO 10545-13 test method available)			1A	1A	1A	1A
	Resistenza ad alte concentrazioni di acidi e alcali. Resistance to high concentrations of acids and alkalis.			Valore dichiarato (ISO 10545-13 metodo di prova disponibile) Declared value (ISO 10545-13 test method available)			HA	HA	HA	HA
	Resistenza alle macchie. Resistance to stains.	ISO 10545-14		Glazed Classe 3 min Minimum class 3			-			
	Unglazed Valore dichiarato (ISO 10545-14 metodo di prova disponibile) Declared value (ISO 10545-14 test method available)			5						



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ISO 14001 e ISO 45001 sistema di gestione aziendale certificato per salute, sicurezza e ambiente.
 ISO 14001 and ISO 45001 - certified corporate management system for health, safety and environment.



ISO 14021 e GREEN GUARD garantiscono la conformità delle nostre ceramiche ai protocolli di green building.
 ISO 14021 and GREEN GUARD guarantee the compliance of our ceramics with Green Building protocols.



ISO 9001 modello di gestione della qualità aziendale per fornire prodotti migliori da un punto di vista produttivo, di processo e di sicurezza.

ISO 9001 - corporate quality management model to provide better products from a production, process and safety perspective.



ISO 17889-1 seguendo un approccio di analisi di ciclo di vita, qualifica le piastrelle di ceramica sotto il profilo della sostenibilità, dagli aspetti ambientali ed economici a quelli sociali.

ISO 17889-1 - following a life cycle analysis approach, qualifies tiles in terms of sustainability: from environmental and economic to social aspects.



LEED

Siamo soci del U.S. Green Building Council, organizzazione che ha sviluppato LEED V4.1, il sistema di analisi della sostenibilità ambientale di una costruzione.

LEED members of the U.S. Green Building Council, the organisation that developed LEED V4.1, the system for analysing the environmental sustainability of a building.

Declare

WELL

WELL e DECLARE attestano il comfort all'interno degli spazi abitativi e la sicurezza dei nostri prodotti.

DECLARE and WELL - attest to the comfort within living spaces and the safety of our products.



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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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