



European  
Ceramics

## ARDESIA RANGE

Product Name: **ARDESIA - VARIOUS COLOUR/FINISHES**

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%.

Country Of Origin: Italy

### *Building Code Obligations*

Code Clauses:

B2 – Durability

B2.3.1

C3 – Fire affecting areas beyond the source

D1 – Access routes

D1.3.3

E3 – Internal moisture

E3.3.2, 3.3.3, 3.3.4

G3 – Food preparation and prevention of contamination

G3.3.2

G6 – Airborne and Impact sound

G6.3.1



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

Manufacturer Details:  
European Ceramics Approved  
BPIR COMPLIANT

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

<b>Scope</b>	<b>Use</b>
B2 Durability	See below suitability table
C3 Fire	The Building Code relating to fire ratings regulation & standards become mandatory from April 2013, establishing the list of products belonging to Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.
D1 Access Routes	Refer to slip resistance documentation for all Access routes classifications D1/AS1 for above range.
E3 Internal Moisture	Under E3 Tiles installed over a waterproof membrane using a nonporous grouting system, are an acceptable solution.
G3 Food Preparation & Prevention from Contamination	As an impervious and easy to clean surface, this range complies.
G6 Airborne & Impact Sound	If required, tiles can form part of an acoustic system to comply with IIC & STC in conjunction with an approved third-party system.

<b>Suitability *</b>	<b>Residential</b>	<b>Light Commercial</b>	<b>Commercial</b>
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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# 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 life 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 create 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.

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### **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.

### **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.

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# Technical Information

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 PRÜFVERFAHREN NORME D'ESSAIS	RIFERIMENTO NORMA REFERENCE STANDARD REFERENZ NORME STANDARWERT	VALORE PRODOTTO PRODUCT VALUES PRODUKT WERTE VALEUR PRODUIT
		700 ± 15 cm    150 ± 15 cm (mm)            (mm)	
		Lunghezza e larghezza - Length and width - Länge und Breite Longueur et largeur	±0,9    ±0,6    ±2,0
		Spessore - Thickness - Stärke - Epaisseur	±0,5    ±5,0    ±0,5
		Rettifinità spigoli - Linearity - Kantengeradheit - Rectitude des arêtes	±0,75    ±0,5    ±1,5
		Ortogonalità - Wedging - Rechtwinkigkeit - Orthogonalité	±0,75    ±0,5    ±2,0
		Pianorità - Warpage - Ebenföchigkeit - Planéité	±0,75    ±0,5    ±2,0
		Aperto: percentuale di piastrelle accettabili nel lotto - appearance: percentage of acceptable tiles, per lot oberflächenbeschaffenheit: prozentsatz der fliesen, die den geforderten eigenschaften entsprechen - aspect: pourcentage de carreaux acceptables sur	95 %    95 % min.    min.
Dimensioni Stöße Abmessungen Dimensions	EN ISO 10545-2		Rettificato / Rectified  Conforme Erfüllt Conforme
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 - Resistance à la flexion	EN ISO 10545-4	Valore medio 35 N/mm <sup>2</sup> min.	Conforme - Conforming Erfüllt - Conforme
Sforzo di rottura - Breakage resistance Bruchlast - Resistance à la rupture		sp. >= 75 mm: min 1300 N sp. < 75 mm: min 700 N	Conforme - Conforming Erfüllt - Conforme
Resistenza all'abrasione profonda - Scratch resistance Bestimmung des Widerstandes gegen tiefen Verschleiß - Resistance à l'abrasion	EN ISO 10545-6	175 mm <sup>3</sup> max.	Medio - Average Mittelwert - Moyenne + 150 mm <sup>3</sup>
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	6,8 MK-1
Resistenza agli sbalzi termici - Thermal shock resistance - Temperaturwechselbeständigkeit - Resistance aux écarts de température	EN ISO 10545-9	Test superato in accordo con ISO 10545-1 - Pass according to ISO 10545-1 Prüfung erfolgreich nach ISO 10545-1 - Test überstanden 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 Prüfung erfolgreich nach ISO 10545-1 - Test überstanden nach ISO 10545-1	* Resistente - Resistant Widerstandsfähig - Résistants
Resistenza a basse concentrazioni di acidi e alcali Resistance to low concentrations of acids and alkalis Résistance à des basses concentrations d'acides et de bases - Beständigkeit gegen schwach konzentrierte säuren und laugen		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 alkalis Résistance à des hautes concentrations d'acides et de bases Beständigkeit gegen stark konzentrierte säuren und laugen	EN ISO 10545-13	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 haushaltsreiner und zusatzstoffe für schwimmbäder		UB min.	UA
Resistenza alle macchie di piastrelle non smaltate naturali Stain resistance of unglazed matte porcelain Fließerbe- ständigkeit von unglasierten natur fliesen Resistance aux taches des carreaux non émaillés naturel	EN ISO 10545-14	Valore dichiarato - Declared value - Valeur déclaré - Angegebener Wert	* Resistente - Resistant Widerstandsfähig - Résistants
	EN 16165	Annex A	Valore disponibile a richiesta Value available upon request Wert auf Anfrage verfügbar Valeur disponible sur demande
Resistenza allo scivolosità Slip resistance Rutschfestigkeit Résistance au dérapage		Annex B	Valore disponibile a richiesta Value available upon request Wert auf Anfrage verfügbar Valeur disponible sur demande
	B.C.R.A. - DM 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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INFORMAZIONI TECNICHE | TECHNICAL INFORMATION  
Gres porcellanato - Rettificato | Porcelain Stoneware - Rectified



V3  
High



Heavy Traffic  
Traffico Intenso



Bending  
Strength



Frost  
Resistance



Chemicals  
Resistance



Stain  
Resistance



R10 / A+B  
StrideUp  
RealUp



Pendulum Ptv > 36  
StrideUp  
RealUp



Ansi  
A326.3 > 0,42  
StrideUp  
RealUp



Ansi  
A326.3 > 0,42  
Naturale / Matte



R11 / A+B+C  
Antislip  
Dehors



Ansi  
A326.3 > 0,42  
Antislip  
Dehors

■ Fascia prezzo al mq. | Price band per m<sup>2</sup> ● Fascia prezzo al pezzo | Price band per piece

## 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 physio-characteristics of fire resistance for tiles please refer to the Technical Documents section on [euroceramics.co.nz](http://euroceramics.co.nz)**

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