

# ZELLIGE BOSCO GLOSS 100x100



## Class 1 Building Product Information Requirements Self-Assessment

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Product Name: ZELLIGE BOSCO GLOSS 100x100

Product Identifier: ZELBOS10

Product Description: A glazed porcelain tile with an gloss finish and a water absorption rate of less than 0.60%.

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## Building Code Obligations

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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



BPIR COMPLIANT



| Scope   | Use  |
|---|--|
| B2 Durability   | See below Suitability table.   |
| C3 Fire   | The Building Code relating to fire ratings regulation and 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                                      | Not acceptable for use under D1/AS1  |
| E3 Internal Moisture                                  | Under E3 Tiles installed over a waterproof membrane using a nonporous Grouting system, are an acceptable solution.   |
| G3 Food Preparation and Prevention from Contamination | As an Impervious and easy to clean Surface this range complies   |
| G6 Airborne and Impact Sound                          | If required Tiles can form part of an acoustic system to comply with IIC and STC in conjunction with an approved third-party system.   |

| Suitability                                  | Residential | Light Commercial | Commercial | Industrial |
|--|-------------|------------------|------------|------------|
| Indoor Floor                                 | -           | -                | -          | -          |
| Indoor Walls                                 | ✓           | ✓                | ✓          | ✓          |
| Outdoor Floor                                | -           | -                | -          | -          |
| Outdoor Cladding                             | -           | -                | -          | -          |
| Frost Resistant                              | -           | -                | -          | -          |
| Swimming Pool Submerged                      | ✓           | ✓                | ✓          | ✓          |
| Swimming Pool Surround                       | -           | -                | -          | -          |
| Paving                                       | -           | -                | -          | -          |
| Over Underfloor Heating                      | ✓           | ✓                | ✓          | ✓          |
| Commercial Kitchen Wall                      | ✓           | ✓                | ✓          | ✓          |
| Within 1.5m of a Plumbing Fixture or Fitting | ✓           | ✓                | ✓          | ✓          |

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

| Specifications          |   |
|-------------------------|---|
| CODE                    | ZELBOS10  |
| TILE SIZE (mm)          | 100x100   |
| THICKNESS (mm)          | 0   |
| SUITABILITY             | Wall  |
| FINISH                  | Gloss   |
| CLASS                   | PEI Class 0: Glazed tiles in this class are wall tiles only and unsuitable for use on floors. |
| RECTIFIED               | No  |
| WEIGHT (kg)             | 0.20  |
| COEFFICIENT OF FRICTION |   |
| SLIP RATING             |   |
| TILES PER BOX           | 54  |
| M2 PER BOX              | 0.54  |
| PATTERNS/FACES          | 36  |
| COUNTRY OF ORIGIN       | Italy   |

## Building Code Clause and Contribution

### **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 are 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.

**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.

Manufacturer Details:

Tile Warehouse Approved



Importer Details:

Tile Warehouse Limited

Address: 286 Church Street, Onehunga, AKL 1061

NZBN: 9429041069448

Website: [www.tilewarehouse.co.nz](http://www.tilewarehouse.co.nz)

# MARAZZI

2019000349 ver.3

| TECHNICAL FEATURES  |                    |
|---------------------|--------------------|
| Collection: Zellige | Brand: Marazzi     |
| Size (cm): 10X10    | Thickness (mm): 10 |

Compliant with standard EN 14411:2016 annex J group BIIa - GL  
Compliant with standard ISO 13006:2018 annex J group BIIa - GL

| Technical Features                                | Testing Method | Meas. unit           | Average Typical Values      | Established limits  |        |         |
|---|----------------|----------------------|-----------------------------|---|--------|---------|
| <b>DIMENSIONAL PROPERTIES AND SURFACE QUALITY</b> |                |                      |                             |   |        |         |
| Dimensions  |                |                      |                             | Nominal Length of edge N (cm) 7≤N<15<br>Nominal Length of edge N (cm) N≥15    |        |         |
| <b>Length and width (*)</b>                       | ISO 10545-2    | (mm)<br>(%)          | Complies with the standards | ±2% (max 5mm) ±2% (max 5mm) ±2% (max 5mm)                                     |        |         |
| <b>Length and width (**)</b>                      |                |                      |                             |   |        |         |
| Not Rectified                                     |                |                      | NA                          | ±0,9 mm   | ±0,6%  | ±2,0 mm |
| Rectified   |                |                      |                             | ±0,4 mm   | ±0,3 % | ±1,0 mm |
| <b>Thickness</b>                                  |                |                      |                             |   |        |         |
| Not Rectified                                     |                |                      | NA                          | ±0,5 mm   | ±5%    | ±0,5 mm |
| Rectified   |                |                      |                             | ±0,5 mm   | ±5%    | ±0,5 mm |
| <b>Straightness of sides</b>                      |                |                      |                             |   |        |         |
| Not Rectified                                     |                |                      | NA                          | ±0,75 mm  | ±0,5 % | ±1,5 mm |
| Rectified   |                |                      |                             | ±0,4 mm   | ±0,3 % | ±0,8 mm |
| <b>Rectangularity</b>                             |                |                      |                             |   |        |         |
| Not Rectified                                     |                |                      | NA                          | ±0,75 mm  | ±0,5%  | ±2,0 mm |
| Rectified   |                |                      |                             | ±0,4 mm   | ±0,3%  | ±1,5 mm |
| <b>Surface Flatness c.c - e.c. - w.</b>           |                |                      |                             |   |        |         |
| Not Rectified                                     |                |                      | NA                          | ±0,75 mm  | ±0,5%  | ±2,0 mm |
| Rectified   |                |                      |                             | ±0,6 mm   | ±0,4%  | ±1,8 mm |
| <b>Surface Quality</b>                            |                |                      | Complies with the standards | ≥95%  |        |         |
| <b>PHYSICAL PROPERTIES</b>                        |                |                      |                             |   |        |         |
| Water absorption                                  | ISO 10545-3    | (%)                  | 3 < Eb ≤ 6                  | 3<Eb≤6 (Individual maximum value 6,5%)  |        |         |
| Modulus of rupture                                | ISO 10545-4    | (N/mm <sup>2</sup> ) | ≥ 22                        | R ≥22 (Individual minimum value 20 N/mm <sup>2</sup> )                        |        |         |
| Breaking Strength                                 | ISO 10545-4    | (N)                  | ≥ 1000                      | ≥1000 (Thickness ≥7,5 mm) ≥600 (Thickness < 7,5 mm)                           |        |         |
| Linear thermal expansion coefficient              | ISO 10545-8    | (x(10)-6/°C)         | ≤ 9                         | Declared value (EN 14411:2016)<br>Test Method available (ISO 13006:2018)      |        |         |
| Thermal shock resistance                          | ISO 10545-9    |                      | Complies with the standards | Declared value (EN 14411:2016) ****<br>Test Method available (ISO 13006:2018) |        |         |
| Crazing Resistance                                | ISO 10545-11   |                      | Complies with the standards | Pass according to EN ISO 10545-1 (EN 14411:2016)<br>Required (ISO 13006:2018) |        |         |
| Reaction to fire                                  | -              | -                    | Wall Class A1               | Class A1 or Class A1 FL (EN 14411:2016)                                       |        |         |
| Colour resistance to light exposure               | DIN 51094      |                      | Complies with the standards | No sample must show noticeable colour modifications.                          |        |         |



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Cap.Soc. Euro102.232.000 Int.Vers. Pl.v.a e Cod. Intrastat IT00611410374 C.F. EN di Iscrizione Reg. Impr. de Mo 00611410374 R.E.A. Modena N. 49219 N. Meccanografico MO 041028 Società soggetta a discrezione e coordinamento di Mohawk Industries, Inc.

# MARAZZI

2019000349 ver.3

| TECHNICAL FEATURES  |                    |
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| Collection: Zellige | Brand: Marazzi     |
| Size (cm): 10X10    | Thickness (mm): 10 |

| Technical Features  | Testing Method | Meas. unit | Average Typical Values | Established limits   |
|---|----------------|------------|------------------------|--|
| <b>CHEMICAL PROPERTIES</b>  |                |            |                        |  |
| Resistance to chemicals for household use and swimming pool salts | ISO 10545-13   |            | A                      | GB Minimum (EN 14411:2016)<br>GB Minimum (ISO 13006:2018)                |
| Resistance to low concentrations of acids and alkalis             | ISO 10545-13   |            | LA-LB                  | Declared value (EN 14411:2016)<br>Test Method available (ISO 13006:2018) |
| Resistance to high concentrations of acids and alkalis            | ISO 10545-13   |            | HA-HB                  | Declared value (EN 14411:2016)<br>Test Method available (ISO 13006:2018) |
| Chemical Resistance   | ASTM C650-04   |            | Not Affected           | Declared value (ANSI A137.1-2012)  |
| Stain resistance  | ISO 10545-14   |            | Class 5                | Minimum class 3 (EN 14411:2016)<br>Minimum class 3 (ISO 13006:2018)      |

\* The work size shall be chose, for non-modular tiles, so that the difference between the work size and the nominal size is:

\*\* The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size..

\*\*\*\* See Table 2 for uses where it is applicable

c.c. Centre curvature, related to diagonal calculated from the work sizes

e.c. Edge curvature, related to the corresponding work sizes.

w. Warpage, related to diagonal calculated from the work sizes.



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[SEITE WURDE ABSICHTLICH LEER GELASSEN]



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# FIRE PERFORMANCE

## BE 100% CONFIDENT IN THE PRODUCTS YOU SPECIFY



*“ The Grenfell Tower tragedy in London highlights the importance to specifiers of ensuring the products they specify (from flooring to cladding materials) are fire-resistant in order to conform to the building code relating to fire rating regulations. ”*

## TILES DO NOT REQUIRE TESTING AS THEY DO NOT CONTRIBUTE TO FIRE

In New Zealand, fire ratings are required by the Building Code to ensure that if a building is on fire, its construction materials do not significantly increase the spread or intensity of a fire. Tiles, being non-combustible, do not require testing as they do not contribute to fire. Aside from this, tiles by nature do not contain any form of petroleum-based product or wood fibres and are in essence, fire-proof and non toxic!

**The building code relating to fire rating regulations and standards became 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.

### WHAT YOU NEED TO KNOW:

- Because most ceramics are manufactured at over 1000 degrees celsius, they become fire-resistant and therefore an obvious choice for both commercial and residential floor and wall surfaces. For example, if a lighted cigarette is dropped on the floor, it will not do any damage to the tile. Even hot kitchen pans or skillets will not scorch or melt the surface of tile, let alone set the tile on fire.
- Tiles are non-combustible so do not catch fire, nor do they give off toxic fumes in the form of VOC's (Volatile Organic Compounds) affecting breathing, when exposed to fire.
- During the manufacture of tiles, any VOC's that may have been present in clays or binders are completely burned away which ensures the final product is inert.



A safe and simple approach with regards to Fire performance in products is to utilise tile for both **Floor** and **Wall** areas. To view latest styles and designs to suit Commercial Projects, see our tile and stone range; <https://www.tilewarehouse.co.nz/tile-stone-range/>