

**TECHNICAL FEATURES**

|                        |                          |
|------------------------|--------------------------|
| Collection: Beton 20mm | Brand: Outdoor emilgroup |
| Size (cm): 120x120 RT  | Thickness (mm): 20       |

Compliant with standard EN 14411:2016 annex G group Bla - UGL

Compliant with standard ISO 13006:2018 annex G group Bla - UGL

| Technical Features                         | Testing Method  | Meas. unit | Average Typical Values      | Established limits                                                                                     |                                    |               |
|--------------------------------------------|-----------------|------------|-----------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|---------------|
| DIMENSIONAL PROPERTIES AND SURFACE QUALITY |                 |            |                             |                                                                                                        |                                    |               |
| Dimensions                                 |                 |            |                             | Nominal Length of edge N (cm) 7≤N<15                                                                   | Nominal Length of edge N (cm) N≥15 |               |
| Length and width (*)                       | ISO 10545-2     | (mm) (%)   | Complies with the standards | ±2% (max 5mm)                                                                                          | ±2% (max 5mm)                      | ±2% (max 5mm) |
| Length and width (**)                      |                 |            |                             |                                                                                                        |                                    |               |
| Not Rectified                              |                 |            | Complies with the standards | ±0,9 mm                                                                                                | ±0,6%                              | ±2,0 mm       |
| Rectified                                  |                 |            |                             | ± 0,4 mm                                                                                               | ±0,3 %                             | ±1,0 mm       |
| Thickness                                  |                 |            |                             |                                                                                                        |                                    |               |
| Not Rectified                              |                 |            | Complies with the standards | ±0,5 mm                                                                                                | ±5%                                | ±0,5 mm       |
| Rectified                                  |                 |            |                             | ±0,5 mm                                                                                                | ±5%                                | ±0,5 mm       |
| Straightness of sides                      |                 |            |                             |                                                                                                        |                                    |               |
| Not Rectified                              |                 |            | Complies with the standards | ±0,75 mm                                                                                               | ±0,5 %                             | ±1,5 mm       |
| Rectified                                  |                 |            |                             | ±0,4 mm                                                                                                | ±0,3 %                             | ±0,8 mm       |
| Rectangularity                             |                 |            |                             |                                                                                                        |                                    |               |
| Not Rectified                              |                 |            | Complies with the standards | ±0,75 mm                                                                                               | ±0,5%                              | ±2,0 mm       |
| Rectified                                  |                 |            |                             | ±0,4 mm                                                                                                | ±0,3%                              | ±1,5 mm       |
| Surface Flatness c.c - e.c. - w.           |                 |            |                             |                                                                                                        |                                    |               |
| Not Rectified                              |                 |            | Complies with the standards | ±0,75 mm                                                                                               | ±0,5%                              | ±2,0 mm       |
| Rectified                                  |                 |            |                             | ±0,6 mm                                                                                                | ±0,4%                              | ±1,8 mm       |
| Surface Quality                            |                 |            | Complies with the standards | ≥95%                                                                                                   |                                    |               |
|                                            |                 |            |                             |                                                                                                        |                                    |               |
|                                            |                 |            |                             |                                                                                                        |                                    |               |
| Technical Features                         | Standard Method |            | Average Declared Value      | Requirements                                                                                           |                                    |               |
| Nominal Size                               | ASTM C499       |            | Compliant                   | MIN - 3.00 %                                                                                           | MAX 2.00 %                         |               |
| Caliber Range                              | ASTM C499       |            | Compliant                   | MIN - 0.25% or -0.03 in (-0.8 mm)(1)<br>MAX 0.25% or 0.03 (-0.8 mm)(1)                                 |                                    |               |
| Wedging                                    | ASTM C502       |            | Compliant                   | MIN - 0.25% or -0.03 in (-0.8 mm)(1)<br>MAX 0.25% or 0.03 (-0.8 mm)(1)                                 |                                    |               |
| Warpage edge                               | ASTM C485       |            | Compliant                   | MIN - 0.40% or - 0.05 in (- 1.3 mm)(3) or -1.8 mm(4)<br>MAX 0.40% or 0.05 in ( 1.3 mm)(3) or 1.8 mm(4) |                                    |               |
| Warpage Diagonal                           | ASTM C485       |            | Compliant                   | MIN- 0.40% or - 0.07 in (- 1.8 mm)(1)<br>MAX 0.40% or 0.07 in ( 1.8 mm)(1)                             |                                    |               |
| Thickness (2)                              | ASTM C499       |            | Not affected                | Range: 0.040 in (1.02 mm)                                                                              |                                    |               |

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|--------------------------------------|---------------------------|--------------|-----------------------------|-------------------------------------------------------------------------------|
| PHYSICAL PROPERTIES                  |                           |              |                             |                                                                               |
| Water absorption                     | ISO 10545-3               | (%)          | ≤ 0,5                       | Eb ≤ 0,5 (Individual maximum value 0,6%)                                      |
| Color Uniformity (8)                 | ASTM C609 and Section 9.3 |              | Compliant                   | V0 – 3 Judds                                                                  |
| Modulus of rupture                   | ISO 10545-4               | (N/mm2)      | ≥ 45                        | R ≥35 (Individual minimum value 32 N/mm2)                                     |
| Breaking Strength                    | ISO 10545-4               | (N)          | ≥ 11000                     | ≥1300 (Thickness ≥7,5 mm) ≥700 (Thickness < 7,5 mm)                           |
| Resistance to deep abrasion          | ISO 10545-6               | (mm3)        | ≤ 175                       | ≤175                                                                          |
| Linear thermal expansion coefficient | ISO 10545-8               | (x(10)-6/°C) | ≤ 9                         | Declared value (EN 14411:2016)<br>Test Method available (ISO 13006:2018)      |
| Deep Abrasion Resistance             | ASTM C1243                |              | Compliant                   | Max value (loss in mm3): 175 mm3 (0.011 in3)                                  |
| Thermal shock resistance             | ISO 10545-9               |              | Complies with the standards | Declared value (EN 14411:2016) ****<br>Test Method available (ISO 13006:2018) |
| Thermal Shock (5)                    | ASTM C484                 |              | Pass                        | Pass                                                                          |
| Frost resistance                     | ISO 10545-12              |              | Complies with the standards | Pass according to EN ISO 10545-1 (EN 14411:2016)<br>Required (ISO 13006:2018) |
| Resistance to Freeze/ Taw Cycling    | ASTM C1026                |              | No damage                   | Declared Value                                                                |
| Reaction to fire                     | -                         | -            | A1 FL / A1                  | Class A1 or Class A1 FL                                                       |
| Color resistance to light exposure   | DIN 51094                 |              | Complies with the standards | No sample must show noticeable colour modifications.                          |
| Bond Strength                        | ASTM C482                 |              | Compliant                   | ≥ 50 psi (0.34 MPa)                                                           |

- (1) Whichever is less.
- (2) May not apply to textured surfaces or tiles with uneven back patterns.
- (3) Whichever is less, for tiles up to 24" (610 mm) on any side
- (4) Applies to tiles larger than 24" (610 mm) on any side
- (5) Glazed tiles only.
- (6) When installation subject to freeze/thaw conditions.
- (7) For Level interior spaces expected to be walked upon when wet (see Section 6.2.2.1.10)
- (8) Class V0 tile only

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| CHEMICAL PROPERTIES                                               |                                                              |            |                        |                                                                                                                                                       |
| Resistance to chemicals for household use and swimming pool salts | ISO 10545-13                                                 |            | A                      | UB Minimum (EN 14411:2016)<br>UB 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)                                                                              |
| Stain resistance                                                  | ISO 10545-14                                                 |            | Class 5                | Declared value (EN 14411:2016)<br>Test Method available (ISO 13006:2018)                                                                              |
| ANTISLIPPERY PROPERTIES                                           |                                                              |            |                        |                                                                                                                                                       |
| Slipperiness Resistance: Ramp Method                              | DIN EN 16165 Annex B (ex DIN 51130); ASR A1.5                |            | R11                    | from R9 to R13                                                                                                                                        |
| Slipperiness Resistance: Ramp Method                              | DIN EN 16165 Annex A (ex DIN 51097) DGUV Information 207-006 |            | C(A+B+C)               | from A to C                                                                                                                                           |
| Slipperiness Resistance: B.C.R.                                   | D.M. N.236 14/6/89                                           |            | $\mu > 0,40$           | $\mu > 0,40$                                                                                                                                          |
| Slipperiness Resistance: Pendulum                                 | UNE EN 16165 Appendix C (ex UNE 41901:2017 EX - DB SUA)      |            | Class 3                | from Class 0 to Class 3                                                                                                                               |
| Slipperiness Resistance: Pendulum                                 | BS7976-2:2002 / BSEN13036-4:2011                             |            | >36                    | 0 - 24 Slippery; 25 - 35 Moderately slippery; 36+ Low slipping risk                                                                                   |
| Dynamic coefficient of friction (DCOF)                            | ANSI 326:3:2021                                              |            | $\geq 0,65$ - EW       | Interior Dry (ID) $\geq 0,42$ dry,<br>Interior Wet (IW) $\geq 0,42$ wet,<br>Interior Wet+ (IW+): Declared Value,<br>Exterior Wet (EW): Declared Value |
| Slipperiness Resistance: Wet Pendulum Test Method                 | AS 4586-2013 Annex A                                         |            | P4                     | from P0 to P5                                                                                                                                         |

\* 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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[PAGINA VOLTAMENTE LASCIATA IN BIANCO]  
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[PAGINA DEJADA EN BLANCO INTENCIONADAMENTE]  
[CETTE PAGE A ETE LAISSEE DELIBEREMENT BLANCHE]  
[SEITE WURDE ABSICHTLICH LEER GELASSEN]