



| Sizes | 160x320 cm 63"x126" ±6mm | 120x278 cm 47 1/4"x109 1/2" ±6mm | 120x240 cm 47 1/4"x94 1/2" ±9mm | 120x240 cm 47 1/4"x94 1/2" ±20mm | 120x120 cm 47 1/4"x47 1/4" ±9mm | 120x120 cm 47 1/4"x47 1/4" ±6mm | 120x120 cm 47 1/4"x47 1/4" ±20mm | 90x90 cm 35 3/8"x35 3/8" ±20mm | 75x150 cm 29 1/2"x59" ±9.5mm | 75x75 cm 29 1/2"x29 1/2" ±9.5mm | 60x120 cm 23 3/8"x47 1/4" ±20mm | 60x60 cm 23 3/8"x23 3/8" ±9mm | 45x90 cm 17 3/4"x35 3/8" ±9mm | 30x60 cm 11 3/4"x23 3/8" ±9mm |
|-------|--------------------------------|--|---------------------------------------|--|---------------------------------------|---------------------------------------|--|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|-------|--------------------------------|--|---------------------------------------|--|---------------------------------------|---------------------------------------|--|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|

| | Technical features | Test method | Requisites for nominal size N | | | Boost | | | | |
|-----------------------------|--------------------|------------------|--|---|--------------|------------------|---------------------|------------------|------------------------------------|--------------|
| | | | 7 cm ≤ N < 15 cm | N ≥ 15 cm | | Matte rectified | Matte rectified 6mm | Grip rectified | Textured rectified | |
| | | | (mm) | (%) | (mm) | | | | | |
| Regularity features | | ISO 10545-2 | Length and width | ± 0,9 (*) | ± 0,6 (*) | ± 2,0 (*) | ±0.3% ±1.0mm | ±0.3% ±1.0mm | ±0.3% ±1.0mm | ±0.3% ±1.0mm |
| | | | Thickness | ± 0,9 (*) | ± 5 (**) | ± 0,5 (**) | ±5.0% ±0.5mm | ±5.0% ±0.5mm | ±5.0% ±0.5mm | ±5.0% ±0.5mm |
| | | | Straightness of sides | ± 0,75 (***) | ± 0,5 (***) | ± 1,5 (***) | ±0.3% ±0.8mm | ±0.3% ±0.8mm | ±0.3% ±0.8mm | ±0.3% ±0.8mm |
| | | | Perpendicularity | ± 0,75 (****) | ± 0,5 (****) | ± 2,0 (****) | ±0.3% ±1.5mm | ±0.3% ±1.5mm | ±0.3% ±1.5mm | ±0.3% ±1.5mm |
| | | Surface flatness | c.c. ± 0,75 | c.c. ± 0,5 | c.c. ± 2,0 | ±0.4% ±1.8mm | ±0.4% ±1.8mm | ±0.4% ±1.8mm | ±0.4% ±1.8mm | |
| | | | e.c. ± 0,75 | e.c. ± 0,5 | e.c. ± 2,0 | | | | | |
| Structural features | | Water absorption | ISO 10545-3 | E _B ≤ 0,5% | | | ≤0.1% | ≤0.1% | ≤0.1% | ≤0.1% |
| | | | ASTM C373-18 | Requirement ANSI A137.1-2017 Water Absorption Max < 0,5% | | | ≤0.5% | ≤0.5% | ≤0.5% | ≤0.5% |
| Bulk mechanical features | | ISO 10545-4 | Breaking strenght | S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm) | | | S ≥1500 N | S ≥1000 N | S ≥1500 N | S ≥10000 N |
| | | | Bending resistance | R ≥ 35 N/mm² | | | R ≥40 N/mm² | R ≥40 N/mm² | R ≥40 N/mm² | R ≥45 N/mm² |
| | | EN 1339 Annex F | - | | | | | | ≥T11 120x120 90X90 ≥U4 60x120 | |
| | | ISO 10545-5 | Declared value | | | ≥0.55 | ≥0.55 | ≥0.55 | ≥0.55 | |
| Surface mechanical features | | EN 101 | - | | | MOHS 6 | MOHS 6 | MOHS 8 | MOHS 8 | |
| | | ISO 10545-6 | ≤ 175 mm³ | | | ≤150mm³ | ≤150mm³ | ≤150mm³ | ≤150mm³ | |
| Thermo-igrometric features | | ISO 10545-8 | Declared value | | | ≤7MK-1 | ≤7MK-1 | ≤7MK-1 | ≤7MK-1 | |
| | | ISO 10545-9 | Test passed in accordance with ISO 10545-1 | | | Resistant | Resistant | Resistant | Resistant | |
| | | ISO 10545-10 | Declared value | | | ≤0.01% (0.1mm/m) | ≤0.01% (0.1mm/m) | ≤0.01% (0.1mm/m) | ≤0.01% (0.1mm/m) | |
| | | ISO 10545-12 | Test passed in accordance with ISO 10545-1 | | | Resistant | Resistant | Resistant | Resistant | |

* Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).

** Permitted deviation, in % or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).

*** Maximum permitted straightness deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

**** Maximum permitted perpendicularity deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

***** Maximum permitted centre curvature deviation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).

e.c. Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

w. Maximum permitted bending deviation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).

(1) Determining the slip resistance of pedestrian surfaces; not applicable to sports flooring or road traffic flooring.

(2) The anti-slip performance is guaranteed at the time of delivering the product.

(3) However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations."

(4) For further details, please refer to the outdoor design general catalogue.

(5) Only for products with 20 mm thickness



| | | | | | | | | | | | | | | |
|-------|--------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|
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|--|---|---|--|-----|------------|---|---|---|---|
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| | | | (mm) | (%) | (mm) | | | | |
| Physical properties | Bond strenght | EN 1348 | Declared value | | | ≥1.0 N/mm ² (Class C2 - EN 12004) | ≥1.0 N/mm ² (Class C2 - EN 12004) | ≥1.0 N/mm ² (Class C2 - EN 12004) | ≥1.0 N/mm ² (Class C2 - EN 12004) |
| | Reaction to fire | - | Class A1 or A1 _{fl} | | | A1 - A1 _{fl} | A1 - A1 _{fl} | A1 - A1 _{fl} | A1 - A1 _{fl} |
| Chemical features | Resistance to household chemicals and swimming pool salts | ISO 10545-13 | Minimum B class | | | A | A | A | A |
| | Resistance to low concentrations of acids and alkalis | | Declared class | | | LA | LA | LA | LA |
| | Resistance to high concentrations of acids and alkalis | | Declared class | | | HA | HA | HA | HA |
| | Stain resistance | ISO 10545-14 | Declared class | | | 5 | 5 | 5 | 5 |
| Safety characteristics | Booted ramp test | DIN 51130 | Declared class | | | R10 | R9 | R11 | R11 |
| | Barefoot Ramp test | DIN 51097 | Declared value | | | A+B | A | A+B+C | A+B+C |
| | Pendulum friction Test | BS 7976 | PTV ≥ 36 classifies the surface as "low slip risk" | | | ≥36Dry ≥36Wet | PTV ≥ 36 Wet on demand | ≥36Dry ≥36Wet | ≥36Dry ≥36Wet |
| | | AS 4586 | Declared Classification of the new pedestrian surface materials according to the Pendulum Test | | | Class P3 | P3 on demand | Class P4 | Class P4 |
| | | UNE-ENV 12633 | Declared value | | | Class C2 | C2 on demand | Class C3 | Class C3 |
| | Coefficient of friction | B.C.R.A. Rep. CEC/81 | Min. Dec. 236/89 of 14/06/89 μ >0.40 for a sliding leather element on a dry floor μ >0.40 for a sliding hard rubber element on a wet floor | | | >0.40Asciutto >0.40Bagnato | >0.40Asciutto >0.40Bagnato | >0.40Asciutto >0.40Bagnato | >0.40Asciutto >0.40Bagnato |
| Dynamic coefficient of friction (DCOF) | ANSI A.137.1 | ANSI A.137.1-2017 Requires a minimum value of 0.42 for level interior space expected to be walked upon when wet. (3) | | | > 0.42 Wet | > 0.42 Wet | > 0.42 Wet | > 0.42 Wet | |

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