

CERTIFICATE

Quality Control Department **CERTIFIES**, that **ARAL 7,5MM, 80x80 cm**, which belongs to **PORCELAIN** tiles group in **PULIDO** finish, has the following Technical Characteristics:

| TECHNICAL CHARACTERISTICS | TEST STANDARD | PRODUCT STANDARD | AVERAGE VALUES |
|--|---------------|-----------------------|------------------------|
| | UNE-EN ISO | | RECTIFIED |
| DIMENSIONAL CHARACTERISTICS | | | |
| LENGTH AND WIDTH | 10545-2 | ± 0,6 % | ± 0,1 % |
| THICKNESS | | ± 5,0 % | ± 5,0 % |
| STRAIGHTNESS OF SIDES | | ± 0,5 % | ± 0,1 % |
| RECTANGULARITY | | ± 0,6 % | ± 0,2 % |
| WARPAGE | | ± 0,5 % | ± 0,25 % |
| PHYSICAL PROPERTIES | | | |
| WATER ABSORTION | 10545-3 | ≤ 0,5 % | < 0,1 % |
| BREAKING STRENGTH (N) | 10545-4 | mín. 1300 | 1800 |
| MODULUS OF RUPTURE (N/mm²) | | mín. 35 | 50 |
| RESISTANCE TO DEEP ABRASION (mm³) | 10545-6 | máx. 175 | 130 |
| COEFFICIENT OF LINEAR THERMAL EXPANSION (1/K) | 10545-8 | TEST METHOD AVAILABLE | 6,3 x 10 ⁻⁶ |
| THERMAL SHOCK RESISTANCE | 10545-9 | TEST METHOD AVAILABLE | RESISTS |
| MOISTURE EXPANSION (mm/m) | 10545-10 | TEST METHOD AVAILABLE | < 0,1 |
| FROST RESISTANCE | 10545-12 | REQUIRED | RESISTS |

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| TECHNICAL CHARACTERISTICS | | TEST STANDARD UNE-EN ISO | PRODUCT STANDARD ISO 13006 | AVERAGE VALUES |
|---|---------|---------------------------------|-----------------------------------|-----------------------|
| | | | | RECTIFIED |
| CHEMICAL PROPERTIES | | | | |
| RESISTANCE TO HOUSEHOLD CHEMICAL AND SWIMING POOL SALTS | | 10545-13 | min. UB | UA |
| RESISTANCE TO LOW CONCENTRATIONS | ACIDS | | INDICATED BY THE MANUFACTURER | ULA |
| | ALKALIS | | | ULA |
| RESISTANCE TO HIGH CONCENTRATIONS | ÁCIDIS | | TEST METHOD AVAILABLE | UHA |
| | ALKALIS | | | UHA |
| RESISTANCE TO STAINING | | | 10545-14 | TEST METHOD AVAILABLE |

PORCELAIN products belong to the GROUP B1a “ceramic tiles dry pressed, which have a low water absorption” ($E \leq 0,5 \%$). Limits to this group are available on Standard ISO 13006, more exactly on annexe B1a.

This product fulfils specifications required by International Norm ISO 13006 annexe B1a, by European Norm EN 14411, and by Spanish Norm UNE-EN 14411 annexe G.

