CERACASA
CERAMICA

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Alfa De Oro
CEVISAMA 2007

Alcora, 21 October 2019

QUALITY CERTIFICATE:

Material: **Glazed Porcelain.**

Models: SLATE.

Size: **31.6x63.7 cm., 49.1x98.2 cm.rect.**

Finish : Natural.

CERACASA, S.A. certifies the above referenced models are manufactured to meet the standards UNE-EN 14411, for ceramic tiles dry pressed with very low water absorption (≤ 0.5 % . Group BIa) and have the following technical characteristics, as recorded in their catalogues:

DETERMINATION OF WATER ABSORPTION, (BOIL METHOD)
(s/ Standard UNE-EN-ISO 10545-3) **Average water absorption: ≤ 0.3 %**

STAIN RESISTANCE. s/ ISO 10545--14: **Class 5**

DETERMINATION OF CHEMICAL RESISTANCE (s/ISO 10545-13; 2017) :

A - Products for household cleaning: **A.**
B. - Additives for swimming pools water: **A.**
C - Acids and alkalis (low concentration): **LA.**
D. - Acids and alkalis (concentrated): **HA.**

DETERMINATION THE SCRATCH RESISTENCE OF THE SURFACE
(s/UNE 67-1011 M:1992) **Mohs hardness: 9**

DETERMINATION OF IMPACT RESISTANCE
(s/UNE EN ISO 10545-5) **Resist**

DETERMINATION OF FROST RESISTANCE
(s/UNE EN ISO 10545-12 :1992) **Resist**

DETERMINATION OF DIMENSIONS AND SURFACE APPEARANCE
(Standard UNE-EN-ISO 10545-2). **It meets the standard.**

1.-length and width: conforms to.
2 thickness: meets standard.
3. straightness of sides: conforms to.
4 orthogonality: meets standard.
5. surface flatness: conforms to.
6. surface quality: conforms to

DETERMINATION OF SLIP RESISTANCE. (*s/UNE-ENV-12663: 2003.*)

The pendulum of friction method. Average slip resistance: **Rd = *25º* *(Class 1)***

Remarks: The classification proposed in document SU1 (safety against the risk of falling) of the technical building code, approved by Royal Decree 3142006 is as follows:

SLIP RESISTANCE	CLASS
Rd <= 15	*clase 0*
15< Rd <=35	*clase 1*
35< Rd <=45	*clase 2*
Rd > 45	*clase 3*

TEST WET DYNAMIC COEFFICIENT OF FRICTION **(DCOF)** .
(s/ANSI A137.1-2017 section 9.6.1 BOT-3000E)
Average : **0.48**

Likewise, the aging resistance of such models of porcelain and lost color by the action of sunlight is negligible.

This family of products are stable and do not undergo photochemical degradation when exposed to the light radiation emitted by the Sun . The color is stable for the lifetime of the product.

These products are in conformity with the provisions of Annex G to the norma UNE-EN-14411 "Ceramic tiles. Definitions, classification, characteristics and marking".

(Group BIa, E =< 0.5 %).

Felipe Sierra Grau

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Quality Dept