CERTIFICATION ON TECHNICAL CHARACTERISTICS

GRESPANIA S.A.CERTIFIES:

That the Wall Tile " **GACELA 25x40 (all colours)** " with white body cladding comply with the International Standard ISO 13006 / EN-14411:2007 ; referred to Ceramic Tiles manufactured using a dry pressing procedure with water absortion E > 10% (Grup B III) and that they comply with the conditions as per rule UNE-EN ISO 10545-1.

And they comply the UNE-EN-ISO-10545-2:

Mínimum 95% of the wall tiles must be free of flaw which prejudice to the apperance of a bigger surface, and refers to the dimensionals values.

This products fulfil the following chemical properties:

CHARACTERISTICS	EUROPEAN STANDARD	STANDARD VALUE	GRESPANIA VALUE Wall Tiles
Stain Resistance (Class 5 to 1)	UNE-EN ISO 10545-14	Mínimum Class 3	Class 5
Resistance to domestical cleaning products and pool aditives (Class GA to GC)	UNE-EN ISO 10545-13	Mínimum Clase GB	Class GA
Resistance to acids and alkali (Class GLA to GLC)	UNE-EN ISO 10545-13	Not required	Not required (1)

And the following physical properties:

CHARACTERISTICS	EUROPEAN STANDARD	STANDARD VALUE	GRESPANIA VALUE Wall Tiles
Water absortion % weight	UNE-EN ISO 10545-3	Average:E>10% Individual:9 minimum (2)	Average absortion 10% <e<20%< td=""></e<20%<>
Breaking load in N a thikness >7.5 mm b thikness<7.5 mm	UNE-EN ISO 10545-4	a 600N b Min 200 N	Between 700 and 1500 N (1 Kg = 9,8 N)
Resitance breaking strength in N/mm^2 Not if breaking load > 3000 N	UNE-EN ISO 10545-4	ae>7.5 mm: 15N/mm ² be<7.5 mm: 12N/mm ²	More than 20 N/mm ² (1 Kg/cm2 = 0,098 N/mm ²)
Hardness to superficial scratch (Mohs scale).	EN - 101	Not required as Norma UNE-ISO	Between 3 and 4
Coefficient of lineal thermal expansion from + 5 ^a C a 100 ^o C	UNE-EN ISO 10545-8	Not required	Less than $7 \ge 10^{-6} \text{ K}^{-1}$
Thermal shock resistance	UNE-EN ISO 10545-9	Not required	Resistant
Resistant to cracking	UNE-EN ISO 10545-11	Required	Resistant (10 kg/cm ²)

(1) Required by manufacturer agreement

(2) If E>20% must be specified by manufacturer

Signed: GRESPANIA Wall Tiles Laboratory Director / Research Director