



DECLARATION OF PERFORMANCE

DdP NUM.: 0302

VENATTO DESIGN S.L.
Avda. Castilla – La Mancha, 1
45240 Alameda de la Sagra – Toledo – España

Product type:	Extruded ceramic tile
Identification of product:	Frontek – Omega Frontek
Intended uses:	Exterior / interior cladding, installed on a metal substructure or with metal anchors.
Specific conditions:	According to features described in the product packaging.
Models:	Lapatto, Natural, texture, Polished and Silk Finish

Evaluation system 4 according to EU Regulation for Construction Products 305/2011

Frontek extruded ceramic tiles and its especial parts manufactured by VENATTO DESIGN S.L., comply with the declared performance and meet the requirements of the UNE 14411 – Annex L (normative). Extruded ceramic tiles – GROUP Ala.

This Declaration of Performance (DoP) is issued under the sole responsibility of VENATTO DESIGN S.L.

PROPERTIES	
DIMENSION AND SURFACE QUALITY	PRECISIÓN (TABLE M.1)
Acceptable deviation of length and width	± 1%
Acceptable deviation of the average size	± 1%
Acceptable deviation of thickness	± 10%
Maximum deviation from straightness of side	± 0,5%
Maximum deviation from rectangularity	± 1%
Maximum deviation from flatness	± 0,5%
Surface quality (free of defects)	≥ 95%
Water Absorption	≤ 0,5%
Breaking strength	≥ 3000 N
Resistance to deep abrasion	≤ 275 mm ³
Frost resistance	Resist
Resistance to household chemicals and swimming pool salts	UA
Resistance to chemical attack low concentration	ULA
Colour scale toning	V2 (light)

Place and date of issue: Alameda de la Sagra, January 1, 2015

Signed: Ángel Juárez Juárez
Managing Director

EN 14411



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2008



GRUPO
GRECO GRES
INTERNACIONAL

FRONTEK LONDRES

(W) 405 x 1000 x 19,5 mm.

CHARACTERISTICS	DECLARED VALUE	TESTING METHOD
Reaction to the fire	CLASS A1	Without need of test (According to 96/603 EC modified)
Breaking force	6.000 N	UNE EN ISO 10545-4
Frost resistance	Resistant	UNE EN ISO 10545-12
Water absorption	$\leq 0,5\%$	UNE EN ISO 10545-3
Coefficient of linear thermal expansion	$9 \times 10^{-6}/^{\circ}\text{C}$	UNE EN ISO 10545-8
Impact resistance	$\geq 0,60$	UNE EN ISO 10545-5
Resistance to thermal shock	Resistant	UNE EN ISO 10545-9
Chemical resistance	UA / ULA	UNE EN ISO 10545-13
Moisture expansion	$\leq 0,1$ mm/m	UNE EN ISO 10545-10
Real density	1.500 Kg/m ³	UNE EN 772-13
Apparent density	2.300 Kg/m ³	UNE EN 772-13
Specific heat capacity	1,0 KJ / KgK	UNE EN 1745 (Tabulated)
Coefficient of thermal conductivity	1,3 W/mk $\hat{\Lambda}$ 10 dry	EN 10456 (Tabulated)
Diffusion coefficient	50 / 100	UNE EN 1745 (Tabulated)
Lead and cadmium emission	No significant emission	Without need of test (According to EN 14411 for unglazed tiles)

MANUFACTURER:

VENATTO DESIGN S.L.

ADDRESS:

Avda. Castilla-La Mancha, 1
45240 Alameda de la Sagra
TOLEDO (SPAIN)

Declares under his exclusive responsibility that ceramic tiles of ventilated façades **FRONTEK** and his special pieces comply with the requirements of the norm

UNE EN 14411 and ISO 13006 - GROUP A1a
Evaluation system 4 (According to E.U. Regulation number 305/2011)

Applications: **INDOOR / OUTDOOR - WALL - VENTILATED FAÇADE (UGL)**

Specific conditions: **According to characteristics described in the packaging of the product.**

Date of Issue: On January 1, 2015

Person in charge of certification



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Avda. Castilla-La Mancha, 1
Tfns.: 925 50 05 39 - 925 50 00 54
Fax: 925 50 09 51
45240 ALAMEDA DE LA SAGRA
(Toledo)
GRUPO GRECO GRES

Carolina Juárez Juárez
Person in charge of logistics

EN 14411



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GRUPO
GRECO GRES
INTERNACIONAL

FRONTEK CANYON

(W) 405 x 1000 x 19,5 mm.

CHARACTERISTICS	DECLARED VALUE	TESTING METHOD
Reaction to the fire	CLASS A1	Without need of test (According to 96/603 EC modified)
Breaking force	6.000 N	UNE EN ISO 10545-4
Frost resistance	Resistant	UNE EN ISO 10545-12
Water absorption	≤ 0,5%	UNE EN ISO 10545-3
Coefficient of linear thermal expansion	$9 \times 10^{-6}/^{\circ}\text{C}$	UNE EN ISO 10545-8
Impact resistance	≥ 0,60	UNE EN ISO 10545-5
Resistance to thermal shock	Resistant	UNE EN ISO 10545-9
Chemical resistance	UA / ULA	UNE EN ISO 10545-13
Moisture expansion	≤ 0,1 mm/m	UNE EN ISO 10545-10
Real density	1.500 Kg/m ³	UNE EN 772-13
Apparent density	2.300 Kg/m ³	UNE EN 772-13
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INTERNACIONAL

FRONTEK CANYON

(W) 405 x 1200 x 19,5 mm.

CHARACTERISTICS	DECLARED VALUE	TESTING METHOD
Reaction to the fire	CLASS A1	Without need of test (According to 96/603 EC modified)
Breaking force	6.000 N	UNE EN ISO 10545-4
Frost resistance	Resistant	UNE EN ISO 10545-12
Water absorption	≤ 0,5%	UNE EN ISO 10545-3
Coefficient of linear thermal expansion	$9 \times 10^{-6}/^{\circ}\text{C}$	UNE EN ISO 10545-8
Impact resistance	≥ 0,60	UNE EN ISO 10545-5
Resistance to thermal shock	Resistant	UNE EN ISO 10545-9
Chemical resistance	UA / ULA	UNE EN ISO 10545-13
Moisture expansion	≤ 0,1 mm/m	UNE EN ISO 10545-10
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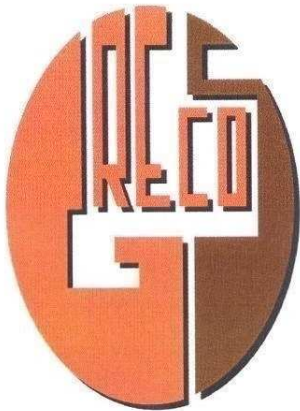
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INTERNACIONAL

FRONTEK CANYON

(W) 405 x 800 x 19,5 mm.

CHARACTERISTICS	DECLARED VALUE	TESTING METHOD
Reaction to the fire	CLASS A1	Without need of test (According to 96/603 EC modified)
Breaking force	6.000 N	UNE EN ISO 10545-4
Frost resistance	Resistant	UNE EN ISO 10545-12
Water absorption	≤ 0,5%	UNE EN ISO 10545-3
Coefficient of linear thermal expansion	$9 \times 10^{-6}/^{\circ}\text{C}$	UNE EN ISO 10545-8
Impact resistance	≥ 0,60	UNE EN ISO 10545-5
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Moisture expansion	≤ 0,1 mm/m	UNE EN ISO 10545-10
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FRONTEK CANYON

(W) 405 x 600 x 19,5 mm.

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Breaking force	6.000 N	UNE EN ISO 10545-4
Frost resistance	Resistant	UNE EN ISO 10545-12
Water absorption	≤ 0,5%	UNE EN ISO 10545-3
Coefficient of linear thermal expansion	$9 \times 10^{-6}/^{\circ}\text{C}$	UNE EN ISO 10545-8
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