



Centro Tecnológico
del mármol



NATURAL STONE LABORATORY

Price List 2.017 Rev.2

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Cod.	Ensayo	Norma	€
Natural stone:			
PN001	ENAC Petrographic examination	EN 12407:2007	193,00
PN002A	Geometric characteristics	EN 13373:2003	21,00
PN003	ENAC Water absorption at atmospheric pressure	EN 13755:2008	98,00
PN004A	ENAC Apparent density and open porosity	EN 1936:2006	101,00
PN005A	ENAC Real and apparent density and total and open porosity	EN 1936:2006	255,00
PN006C	ENAC Abrasion resistance: method A (Capon)	EN 14157:2004	132,00
PN007A	ENAC Frost resistance: Identification test until 14 cycles	EN 12371:2010	171,00
PN007B	ENAC Frost resistance: Identification test until 56 cycles	EN 12371:2010	370,00
PN007C	ENAC Frost resistance: Identification test until 84 cycles	EN 12371:2010	487,00
PN007D	ENAC Frost resistance: Identification test until 140 cycles	EN 12371:2010	711,00
PN007E	ENAC Frost resistance: Identification test until 168 cycles	EN 12371:2010	808,00
PN008A	ENAC Frost resistance: Technological test (lost of flexural strength under concentrated load after 14 cycles)	EN 12371:2010	170,00
PN008B	ENAC Frost resistance: Technological test (lost of flexural strength under concentrated load after 48/56 cycles)	EN 12371:2010	367,00
PN008C	ENAC Frost resistance: Technological test (lost of compressive strength after 14 cycles)	EN 12371:2010	224,00
PN008D	ENAC Frost resistance: Technological test (lost of compressive strength after 48/56 cycles)	EN 12371:2010	419,00
PN008E	ENAC Frost resistance: Technological test (lost of flexural strength at a constant moment after 48/56 cycles)	EN 12371:2010	367,00
PN008F	ENAC Frost resistance: Technological test (lost of breaking load at a dowel hole after 14 cycles)	EN 12371:2010	272,00
PN009A	ENAC Compressive strength	EN 1926:2006	141,00
PN009B	Compressive strength	EN 772-1:2011	141,00
PN010	ENAC Flexural strength under concentrated load	EN 12372:2006	104,00
PN011	ENAC Flexural strength at a constant moment	EN 13161:2008	106,00

(ENAC) Tests accredited by ENAC

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Cod.	Ensayo	Norma	€
PN012A	ENAC Breaking load at a dowel hole: Identification test	EN 13364:2001	160,00
PN012B	ENAC Breaking load at a dowel hole: Technological test	EN 13364:2001	160,00
PN012C	ENAC Breaking load at a dowel hole (without cement)	PE 17 Rev.7	132,00
PN012D	Resistance to anchorage (grooved slabs)	ETAG 034-1:2012	150,00
PN013	ENAC Resistance to salt crystallisation	EN 12370:1999	275,00
PN014	Static elastic modulus	EN 14580:2005	388,00
PN015	Knoop hardness	EN 14205:2003	99,00
PN016	ENAC Rupture energy (by impact)	EN 14158:2004	60,00
PN017A	ENAC Water absorption coefficient by capillarity	EN 1925:1999	104,00
PN017B	Water absorption due to capillary action	EN 772-11:2011	104,00
PN019C	ENAC Resistance to ageing by thermal shock	EN 14066:2013	267,00
PN019D	ENAC Sensivity to changes in appearance produced by thermal cycles	EN 16140:2011	124,00
PN020A	ENAC Slip resistance by means of the pendulum tester (wet and dry conditions)	EN 14231:2003	147,00
PN020E	ENAC Slip/skid resistance value (wet conditions)	ENV 12633:2003	99,00
PN020H	ENAC Slip/skid resistance value (wet and dry conditions)	ENV 12633:2003	147,00
PN020J	Slip/skid resistance value (wet conditions)	CEN/TS 16165:2012	114,00
PN023	Surface roughness	EN ISO 4288:1997	82,00
PN024	Chemical resistance	EN ISO 10545-13:1997	250,00
PN035A	Initial adhesion	PE 31 Rev.1	191,00
PN035B	Adhesion after 20 thermal shock cycles	PE 31 Rev.1	275,00
PN035C	Adhesion after 48/56 frost/thaw cycles	PE 31 Rev.1	319,00
PN036	Wet tensile adhesion strength	PE 31 Rev.1	191,00
PN050	Organic matter content		80,00
PN051A	Thermal expansion coefficient	PE 28 Rev.1	105,00
PN051B	Thermal expansion coefficient	EN 14581:2004	478,00

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Cod.	Ensayo	Norma	€
PN053	Resistance to ageing by salt mist	EN 14147:2003	301,00
PN054	Sound speed propagation	EN 14579:2004	90,00
PN066B	Resistance to stains	EN 16301:2013	169,00
PN068	Mohs hardness	EN 101:1991	37,00
PN077	Dynamic modulus of elasticity	EN 14146:2004	108,00
Dimensioned stone (ASTM):			
PN025	Absorption and bulk specific gravity	ASTM C97/C97M-15	101,00
PN026	Modulus of rupture	ASTM C99/C99M-15	104,00
PN027	Compressive strength	ASTM C170/C170M-16	141,00
PN028	Flexural strength	ASTM C880/C880M-15	106,00
PN029B	Abrasion resistance	ASTM C1353/C1353M-15	136,00
PN078B	Resistance to rapid freezing and thawing (lost of flexural strength after 125 cycles, method B)	ASTM C666/C666M-15	419,00
PN078C	Resistance to rapid freezing and thawing (125 cycles, method A)	ASTM C666/C666M-15	607,00
PN080	Petrographic examination	ASTM C1721-15	193,00
PN082	Flexural modulus of elasticity	ASTM C1352/C1352M-15	125,00
PN084	Strength of individual stone anchorages	ASTM C1354/C1354M-15	160,00
Slates for roofing:			
PT039	Geometric characteristics	EN 12326-2:2011	21,00
PT040	Flexural strength	EN 12326-2:2011	213,00
PT041	Water absorption	EN 12326-2:2011	101,00
PT042	Freeze-thaw	EN 12326-2:2011	370,00
PT044	Sulphur dioxide exposure	EN 12326-2:2011	174,00
PT045	Thermal cycle	EN 12326-2:2011	128,00

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Cod.	Ensayo	Norma	€
PT046	Petrographic examination of thin sections	EN 12326-2:2011	193,00
Agglomerated stone:			
PA055	ENAC Apparent density and water absorption	EN 14617-1:2013	94,00
PA056	ENAC Flexural strength	EN 14617-2:2016	104,00
PA058	Freeze-thaw resistance	EN 14617-5:2012	237,00
PA059	ENAC Thermal shock resistance	EN 14617-6:2012	220,00
PA060	ENAC Impact resistance	EN 14617-9:2005	60,00
PA061	ENAC Chemical resistance	EN 14617-10:2012	142,00
PA062A	Thermal expansion coefficient (20-80°C)	PE 28 Rev.1	105,00
PA062C	Thermal expansion coefficient (30-130°C)	EN 14617-11:2006	122,00
PA063	ENAC Compressive strength	EN 14617-15:2005	141,00
PA064	ENAC Resistance to fixing (dowel hole)	EN 14617-8:2007	160,00
PA067A	ENAC Slip/skid resistance value (wet conditions)	ENV 12633:2003	99,00
PA067B	ENAC Slip resistance by means of the pendulum tester (wet and dry conditions)	EN 14231:2003	147,00
PA067E	ENAC Slip/skid resistance value (wet and dry conditions)	ENV 12633:2003	147,00
PA067F	Slip/skid resistance value (wet conditions)	CEN/TS 16165:2012	114,00
PA069	ENAC Abrasion resistance	EN 14617-4:2012	102,00
PA070	Electrical resistivity	EN 14617-13:2013	103,00
PA071	Dimensional stability	EN 14617-12:2012	70,00
PA072	Knoop hardness	EN 14205:2003	95,00
PA073	Initial adhesion	PE 31 Rev.1	191,00
PA074	Mohs hardness	EN 101:1991	37,00
PA075	Dimensions, geometric characteristics and surface quality	EN 14617-16:2006	188,00
PA076A	Weathering by exposure to filtered xenon-arc radiation. Method A: daylight, (200 h)	EN ISO 4892-2:2013	146,00

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Cod.	Ensayo	Norma	€
PA076B	Weathering by exposure to filtered xenon-arc radiation. Method C, window lighth, (200 h)	EN ISO 4892-2:2013	146,00
PA076Q	Lighthfastness	EN 438-2:2005	213,00
PA107A	Resistance to anchorage (grooved slabs)	ETAG 034-1:2012	150,00

General conditions

The CTM reserves the right to modify the prices without notice.

Sending of samples will be paid by the customer.

For tests which are requested by customers a detailed offer will be presented, and this proposal will contain prices and specific conditions, as well as the samples specifications. Acceptance of the offer should be sent in writing before beginning tests. If the customer has doubts about the terms of the offer, or this offer doesn't serve the customer exact needs, customers should contact the laboratory before testing begins.

The CTM guarantees the confidentiality of received information and the results included in the report. All information to third parties must be previously authorised in writing by the petitioner.

Clients who request tests, will have access to laboratory facilities to be present when tests, whenever this is possible.

For each test carried out an independent report will be done, in Spanish + English or Spanish + French.

Results in the reports will refer only to the samples and information provided by the customer. The CTM is not responsible for the representativity with respect to the marketed product.

Specimens not destroyed will remain stored for 3 months from completion of tests, at the disposition of the customer which requested them.

Complaints about test results should be made in writing, addressed to the test laboratory CTM.

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