



NATURAL STONE LABORATORY

Price List 2.020 Rev.3

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Cod.	Test	Standard	€
Natural stone:			
PN001	* Petrographic examination	EN 12407:2007	201,00
PN002A	Geometric characteristics	EN 13373:2003	25,00
PN003	* Water absorption at atmospheric pressure	EN 13755:2008	104,00
PN004A	* Apparent density and open porosity	EN 1936:2006	107,00
PN005A	* Real and apparent density and total and open porosity	EN 1936:2006	270,00
PN006	* Abrasion resistance: method A (Capon)	EN 14157:2017	164,00
PN007A	* Frost resistance: Identification test until 14 cycles	EN 12371:2010	184,00
PN007B	* Frost resistance: Identification test until 56 cycles	EN 12371:2010	400,00
PN007C	* Frost resistance: Identification test until 84 cycles	EN 12371:2010	527,00
PN007D	* Frost resistance: Identification test until 140 cycles	EN 12371:2010	770,00
PN007E	* Frost resistance: Identification test until 168 cycles	EN 12371:2010	874,00
PN008A	* Frost resistance: Technological test (lost of flexural strength under concentrated load after 14 cycles)	EN 12371:2010	183,00
PN008B	* Frost resistance: Technological test (lost of flexural strength under concentrated load after 48/56 cycles)	EN 12371:2010	396,00
PN008C	* Frost resistance: Technological test (lost of compressive strength after 14 cycles)	EN 12371:2010	242,00
PN008D	* Frost resistance: Technological test (lost of compressive strength after 48/56 cycles)	EN 12371:2010	453,00
PN008F	* Frost resistance: Technological test (lost of breaking load at a dowel hole after 14 cycles)	EN 12371:2010	294,00
PN009A	* Compressive strength	EN 1926:2006	150,00
PN009B	Compressive strength	EN 772-1:2011	150,00
PN010	* Flexural strength under concentrated load	EN 12372:2006	110,00
PN011	* Flexural strength at a constant moment	EN 13161:2008	114,00
PN012A	* Breaking load at a dowel hole: Identification test	EN 13364:2001	173,00
PN012B	* Breaking load at a dowel hole: Technological test	EN 13364:2001	173,00
PN012C	* Breaking load at a dowel hole (without cement)	PE 17	141,00

(*) Tests accredited by ENAC

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Cod.	Test	Standard	€
PN012D	Resistance to anchorage (grooved slabs)	ETAG 034-1:2012	159,00
PN013	* Resistance to salt crystallisation	EN 12370:1999	293,00
PN015	Knoop hardness	EN 14205:2003	107,00
PN016	* Rupture energy (by impact)	EN 14158:2004	72,00
PN017A	* Water absorption coefficient by capillarity	EN 1925:1999	112,00
PN017B	Water absorption due to capillary action	EN 772-11:2011	112,00
PN019C	* Resistance to ageing by thermal shock	EN 14066:2013	288,00
PN019D	* Sensivity to changes in appearance produced by thermal cycles	EN 16140:2019	183,00
PN020A	* Slip resistance by means of the pendulum tester (wet and dry conditions)	EN 14231:2003	156,00
PN020J	* Slip/skid resistance value (wet conditions)	CEN/TS 16165:2016	120,00
PN020K	* Slip/skid resistance value (wet conditions)	UNE 41901 EX:2017	120,00
PN020R	Slip/skid resistance value (dry conditions)	UNE 41902 EX:2017	166,00
PN023	Surface roughness	EN ISO 4288:1997	89,00
PN024	Chemical resistance	EN ISO 10545-13:1997	265,00
PN035A	Initial adhesion	PE 31	203,00
PN035B	Adhesion after 20 thermal shock cycles	PE 31	298,00
PN035C	Adhesion after 48/56 frost/thaw cycles	PE 31	345,00
PN036	Wet tensile adhesion strength	PE 31	203,00
PN050	Organic matter content		87,00
PN051A	Thermal expansion coefficient	PE 28	113,00
PN054	Sound speed propagation	EN 14579:2004	96,00
PN066B	Resistance to stains	EN 16301:2013	179,00
PN077	Dynamic modulus of elasticity	EN 14146:2004	114,00

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Cod.	Test	Standard	€
Dimensioned stone (ASTM):			
PN025	Absorption and bulk specific gravity	ASTM C97/C97M-18	107,00
PN026	Modulus of rupture	ASTM C99/C99M-18	110,00
PN027	Compressive strength	ASTM C170/C170M-17	150,00
PN028	Flexural strength	ASTM C880/C880M-18	112,00
PN029B	Abrasion resistance	ASTM C1353/C1353M-15a	157,00
PN078B	Resistance to rapid freezing and thawing (lost of flexural strength after 125 cycles, method B)	ASTM C666/C666M-15	445,00
PN078C	Resistance to rapid freezing and thawing (125 cycles, method A)	ASTM C666/C666M-15	644,00
PN080	Petrographic examination	ASTM C1721-15	205,00
PN084A	Strength of individual stone anchorages	ASTM C1354/C1354M-15	169,00
PN120	Dynamic coefficient of friction DCOF	ANSI A326.3:2017	217,00
Slates for roofing:			
PT039	Geometric characteristics	EN 12326-2:2011	25,00
PT040	Flexural strength	EN 12326-2:2011	225,00
PT041	Water absorption	EN 12326-2:2011	107,00
PT042	Freeze-thaw	EN 12326-2:2011	393,00
PT044	Sulphur dioxide exposure	EN 12326-2:2011	235,00
PT045	Thermal cycle	EN 12326-2:2011	183,00
PT046	Petrographic examination of thin sections	EN 12326-2:2011	201,00
Agglomerated stone:			
PA055	* Apparent density and water absorption	EN 14617-1:2013	100,00
PA056	* Flexural strength	EN 14617-2:2016	110,00
PA058	Freeze-thaw resistance	EN 14617-5:2012	256,00
PA059	* Thermal shock resistance	EN 14617-6:2012	239,00

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Cod.	Test	Standard	€
PA060	* Impact resistance	EN 14617-9:2005	72,00
PA061	* Chemical resistance	EN 14617-10:2012	151,00
PA062C	Thermal expansion coefficient (30-130°C)	EN 14617-11:2006	131,00
PA067B	* Slip resistance by means of the pendulum tester (wet and dry conditions)	EN 14231:2003	156,00
PA067F	* Slip/skid resistance value (wet conditions)	CEN/TS 16165:2016	120,00
PA067H	* Slip/skid resistance value (wet conditions)	UNE 41901 EX:2017	120,00
PA067I	Slip/skid resistance value (dry conditions)	UNE 41902 EX:2017	166,00
PA069	* Abrasion resistance	EN 14617-4:2012	110,00
PA070	Electrical resistivity	EN 14617-13:2013	109,00
PA071	Dimensional stability	EN 14617-12:2012	72,00
PA072	Knoop hardness	EN 14205:2003	107,00
PA073	Initial adhesion	PE 31	203,00
PA075	Dimensions, geometric characteristics and surface quality	EN 14617-16:2006	200,00
PA076A	Weathering by exposure to filtered xenon-arc radiation. Method A: daylight, (200 h)	EN ISO 4892-2:2013	155,00
PA076B	Weathering by exposure to filtered xenon-arc radiation. Method C, window lighth, (200 h)	EN ISO 4892-2:2013	155,00
PA107A	Resistance to anchorage (grooved slabs)	ETAG 034-1:2012	159,00
PA129	Dynamic coefficient of friction DCOF	ANSI A326.3:2017	217,00

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.

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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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