




California Slate Company, Inc.

3344 Market Street
San Francisco, CA 94114
USA



- Product code: **BRAZILIAN CHARCOAL**
- Type, lot or serie number or any another elements able to identify as construction product like provided in Article 11, Paragraph 4:
Product: Metamorphic matalutite-orthoslate.
Quarry: "GRAPHITE", Pompéu – Minas Gerais(BRAZIL)
Formats: Width: from 15 to 100 cm.
Long: from 15 to 100 cm.
- Use or uses of the construction product, in accordance with the technical specification:
Slate and Stone products for discontinuous roofing and cladding (UNE-EN 12326-1: 2005).
- Name and address from the manufacture according to the Article 11, Paragraph 5:

	Address:	C/ Juan Flórez, 42 -11º dcha 15004 A CORUÑA – ESPAÑA
	Telephone:	+34 981 915 008
	e-mail:	info@benatural.es

- When appropriated, name and address of the authorized representative covering the specified tasks as indicated in Article 12, Paragraph 2:
be natural slate (like above)
- System or systems of evaluation and verification of the construction product as set out in the annexe V:
System 4
- In case of declaration concerning a construction product already covered by a standard norm:
EN 12326-1: 2004 (UNE-EN 12326-1: 2005) Slate and Stone products for discontinuous roofing and cladding: Product specification.
EN 12326-2: 2011 (UNE-EN 12326-2: 2012) Slate and stone products for sloping roofing and cladding. Part 2: Test methods for slates and carbonated slates.
- Performance declared:

ESSENTIAL SPECIFICATIONS		PERFORMANCES		HARMONISED TECHNICAL SPECIFICATIONS
Water absorption		A1	0.36%	EN 12326-1
Thermal cycle		T1		EN 12326-1
Exposure SO ₂		S1		EN 12326-1
Carbonate content:		CaCO ₃ ≤ 1,5%	1,09%	EN 12326-1
Non-Carbonate Carbono Content		C _{nc} ≤ 2%	0,09%	EN 12326-1
		TRANSVERSE	LONGITUDINAL	EN 12326-1
Mechanical Resistance – 5mm	MOR	55 MPa	52 MPa	
	Failure load	593 N	562 N	
Mechanical Resistance – 8mm	MOR	64 MPa	63 MPa	
	Failure load	2451 N	2377 N	
Deviation of the length and width		COMPLIES		EN 12326-1
Deviation of rectangularity		COMPLIES		EN 12326-1
Deviation from linearity of the edges		COMPLIES		EN 12326-1
Nominal thickness		5 a 9 mm		EN 12326-1
Individual thickness and deviation from the nominal		e _{pl} ≤ e _n COMPLIES		EN 12326-1
External fire performance		COMPLIES WITHOUT TEST PROCESSING-CLASS B _{ROOF}		EN 12326-1
Reaction to fire		Deemed to satisfy CLASS A1		EN 12326-1
Release of dangerous substances		NONE IN SPECIFIED CONDITIONS OF USE		EN 12326-1

- The performances of the product identified in points 1 and 2 comply with the declared performance in point 8.
- This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



THE EUROPEAN NORM

EN 12326-1: 2004 Slate and stone elements for roofing

This norm establishes:

Four product definitions corresponding to the regularity of thickness tolerance, uniformity and dimensions.

- Very smooth
- Smooth
- Normal
- Rough or textured.

This regulation classifies the products in different categories taking into account:

- Water absorption
A1 for <0.6% and A2 for > at 0.6 % (with no limit)
- Termic impacts resistance. (risk of rust)
T1 may have pyrites but no risk of rust
T2 may have pyrites with risk of rust but no structure modification.
T3 may have pyrites with risk of rust and possibility of structure modification.
- Exposition to sulphur's dioxide
S1/S2/S3 for places with high pollution

How to read and to decipher the label on the crates:

A (A1 or A2) for the level of porosity.

T (T1-T2-T3) for the risk of rust.

S (S1-S2-S3) for the resistance to the aggressive atmospheres.

The label CE on the crates showing this norm is obligatory since May, 1st 2008 for all Roofing Slates sold in Europe.

Example:

A1-T1-S1- satisfactory quality

A1-T2-S1- non porous slate but sometimes it can have superficial rust with or without runs.

A2-T2-S2- slate sometimes porous and can have rust. Don't ever fix in aggressive atmospheres.

For more information please contact us: info@CaliforniaSlateCompany.com