



pizarras
Villar del Rey

PRODUCT CHARACTERISTICS

**DETERMINED
PLAN**

Producer: PIZARRAS VILLAR DEL REY, S.L.
Ctra. De Villar del Rey a la Roca de la Sierra, Km. 45.
06002 VILLAR DEL REY (BADAJOZ)

Location of the quarry: VILLAR DEL REY, BADAJOZ, SPAIN

This document establishes the conformity of the product described below and it is incomplete without the explanation of the meaning of the test results and the requirements of the norm EN 12326-1:2004. The tests referred to and the criteria are contained in EN 12326-1:2004 and EN 12326-2:2000.

Date of sampling: April 2009		Date of test: May 2009		Test method: EN 12356-2:2000	
Product description		Slate for roofing and external cladding			
Year of manufacture		2009			
Commercial name and dimensions		VILLAR DEL REY 51x25 mm.			
					Conformity
1. Dimensional tolerances					
Format		Rectangular			
Deviation from declared length		-0.20 mm			≤ 5 mm
Deviation from declared width		0 mm			≤ 5 mm
Deviation from squareness		0.10%			≤ 1%
Deviation from straightness of edges		Edge 1: 0% Edge 2: 0%			≤ 1%
Slate type for deviation from flatness		VERY SMOOTH			
Deviation from flatness		0%			≤ 0.9%
2. Thickness					
Slate type for packed thickness calculation		VERY SMOOTH			
Deviation or packed thickness		7%			≤ 15%
Nominal thickness and variation		Nominal thickness 6 - variation 23.38% (6.6 mm)			≤ 35%
3. Strength					
Characteristic MoR	Transverse	58.99 Mpa	Longitudinal	66.34 Mpa	Value indicated by manufacturer
Main failure load	Transverse	1934 N	Longitudinal	2273.5 N	Value indicated by manufacturer
4. Water absorption		0.39%, Code A1			0.6%
5. Freeze thaw		Not required			
6. Thermal cycle test		Code T1			
7. Carbonate content		2.1 %			Value indicated by manufacturer
8. Sulphur dioxide exposure test		Code S1 (acceptable in all conditions)			
9. Non-carbonate carbon content		0.98%			≤ 2%
10. External fire exposure		Deemed to satisfy			
11. Reaction to fire		Deemed to satisfy Class A1			
12. Release of dangerous substances		None in conditions of use as roofing and external cladding.			