



Year: 2018

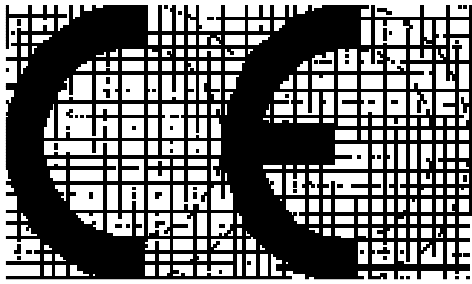
Natural stone slabs for outside flooring UNI EN 1341:2003  
 Internal and external cladding slabs UNI EN 1469:2005  
 Natural stone cladding tiles UNI EN 12057:2005  
 Internal and external slabs for flooring and stairs UNI EN 12058:2005

## GRIGIO ALPI

**GRASSI PIETRE S.R.L. - Via Madonnetta, 2 - 36024 Nanto (VI)**

Charachteristics	Declared value (middle value)	Test method
Petrographic description	Biosparrudite	UNI EN 12407:2007
Reaction to fire	A1 Class	No test ( see decicion 96/603/CE and flwing change)
Flexural strength ( Th : 30 mm)	6,9 MPa (Th : 30mm)	UNI EN 12372:2007
Uniaxial compression strength	49 MPa (Mid value)	UNI EN 1926:2007
Frost resistance through modification of compression strength	Uniaxial compression strength variation (after 56 cycles -12°C/+20°C): 5,8 MPa ( -16%)	UNI EN 12371:2010
Water absorption	5,2 %	UNI EN 13755:2008
Apparent volumic mass	2330 kg/m <sup>3</sup>	UNI EN 1936:2007
Abrasion resistance (Method A)	26 mm	UNI EN 14157:2005
Slip resistance (SRV) Finishing: only sawn	72 (wet)	UNI EN 1341:2003
Slip resistance (SRV) Finishing : honed not sealed Finishing: honed sealed * Finishing: Brushed not sealed Finishing: Brushed sealed *	56 (dry) 48 (wet) 64 (dry) 38 (wet) 64 (dry) 51 (wet) 60 (dry) 48 (wet)	UNI EN 14231:2004
Open porosity	12%	UNI EN 1936:2007

\*: Sealant by FILA, waterbased sealant + 1 hand of wax



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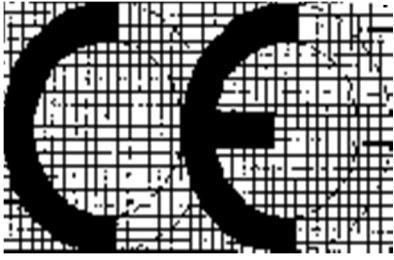
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Charachteristics	Declared value (middle value)	Test method
Breaking load on anchoring holes : pin diam : 6 mm		UNI EN 13364:2003
Thikness: 30 mm (cross cut)	613 N (middle value)	
Thikness: 30 mm (vein cut)	971 N (middle value)	
Thikness: 40 mm (cross cut)	1346 N (middle value)	
Thikness: 40 mm (vein cut)	1317 N (middle value)	
Breaking load on anchoring holes : Kerf 7 mm		UNI EN 13364:2003
Thikness: 30 mm (cross cut)	442 N (middle value)	
Thikness: 30 mm (vein cut)	422 N (middle value)	
Thikness: 40 mm (cross cut)	1150 N (middle value)	
Thikness: 40 mm (vein cut)	922 N (middle value)	
Resistance to thermal shock :	- 1,7 %	UNI EN 14066:2013
Flexural strength after thermal shock	Flexural strength variation (after 20 cycles +20°C/+70°C): 5,8 MPa ( - 16 %)	UNI EN 12372:2007

Tested by: **ECAM - RI.CERT. Spa** – Monte di Malo (VI)



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**GRASSI PIETRE S.R.L. - Via Madonnetta, 2 - 36024 Nanto (VI)**

Characteristics	Declared value (middle value)	Test method
Check of weight loss after attack with aggressive agent (sodium sulfate or magnesium sulphate) for one thermal cycle  Finishing: Corteccia	Dm = 0,01%	ASTM C88
Resistance to abrasion of stones subject to pedestrian traffic  Finishing: honed	Ha=13,27	ASTM C241

Tested by: **ECAM - RI.CERT. Spa** – Monte di Malo (VI)