GRASSI PIETRE
VICENZA STONE SPECIALIST

Grassi Pietre srl
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R.E.A. 291917
P.IVA – C.F. 03013000249

DECLARATION OF PERFORMANCE
N° PNB_22-09_rev.01

1. **Unique identification code of product-type:** Modular tiles for (interior and exterior) floorings and stairs, in cement based calcareous stone agglomerate, quality Pietranova Bianca.

2. **Intended use:**

   Cement agglomerate of calcareous stone tiles for interior and exterior stairs and floorings (UNI EN 15285:2008).

3. **Name and address of fabricator:**
   Grassi Pietre Srl, via Madonetta, 2 - 36024 Nanto (VI) - Tel. 0444 639092 - Fax. 0444 730071 - info@grassipietre.it

4. **System or systems of assessment and verification of constancy of performance:**
   System 4

5. **Notified body:**
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6. **Declared performance:**

Essential characteristic	**Result**	**Reference norm**
Material description	Agglomerate cement based	No test
Reaction to fire	Class A1	UNI EN 13501-1 Decision 96/603//EC
FLEXURAL STRENGTH UNDER CONCENTRATED LOAD:		UNI EN 14617-2
Breaking load *(lowest expected value):*	7,6 MPa	
Breaking load *(medium value):*	8,6 MPa	
Standard deviation:	0,50	
FLEXURAL STRENGTH UNDER CONCENTRATED LOAD (after freeze/thaw cycles according to UNI EN 12371):		UNI EN 14617-2
Breaking load *(lowest expected value):*	9,6 MPa	
Breaking load *(medium value):*	10,3 MPa	
Standard deviation:	0,33	
COMPRESSIVE STRENGTH:		UNI EN 14617-15
Breaking load *(medium value):*	107,0 MPa	
Standard deviation:	2,0	
RESISTANCE TO SLIP SRV:		UNI EN 14231
Surface finishing: sawn		
SRV “dry”:	59	
SRV “wet”:	56	
Surface finishing: honed and sealed		
SRV “dry”:	61	
SRV “wet”:	26	
Surface finishing: brushed and sealed		
SRV “dry”:	60	
SRV “wet”:	35	
Water absorption at atmosferic pressure:	4,9 %	UNI EN 14617-1

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Apparent volumic mass (medium value)	2290 Kg/m3	UNI EN 14617-1
Abrasion resistance (Method A)	22 mm	UNI EN 14157
BREAKING LOAD AT DOWEL HOLE (th. 30 mm)		UNI EN 14617-8
Breaking load *(lowest expected value):*	743 N	
Breaking load *(medium value):*	1042 N	
Standard deviation:	164	
BREAKING LOAD AT DOWEL HOLE WITH USE OF KERF SYSTEM (th. 30 mm)		UNI EN 14617-8
Breaking load *(lowest expected value):*	662 N	
Breaking load *(medium value):*	779 N	
Standard deviation:	62	
Resistance to thermal shock:	-0,3%	UNI EN 14617-6
Flexural strength after thermal shock (after 20 cycles +20°C/+70°C): 10,3 MPa (+ 19,7 %):	10,3 MPa (+19,7 %)	UNI EN 14617-2
Impact resistance	3,5 L (J)	UNI EN 14617-9
Coefficient of linear thermal expansion α	$4{,}8 \times 10^{-6}$	UNI EN 14617-11
Thermal Conductivity	1,7 W/(mK)	UNI EN 12524
Flexural strength Finishing: only sawn	5,7 Mpa (sp.40mm)	ASTM C880/880M-15
Determination of Chemical Resistance: Attack with sodium hypochloride solution (20mg/l, 5% W7V) like p.5.2 pool salts Surface: treated	Classe A	UNI EN ISO 10545-13:2017 p. 5.2
Determination of the R coefficient Finishing: Honed sliding angle < 1°	Non classificabile	DIN 51130
Determination of the R coefficient Finishing: Brushed sliding angle =14,6°	R10	DIN 51130
Determination of the R coefficient Finishing: Calibrated sliding angle = 11°	R10	DIN 51130
Determination of the R coefficient Finishing: Bushhammered+brushed sliding angle = 33°	R12	DIN 51130
Determination of the R coefficient Finishing: Bushhammered sliding angle = 11°	R13	DIN 51130

7. The performance of the product identified in point 1 is in conformity with the declared performance in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of:

Grassi Francesco – Legal Representative

The Legal Representative
Grassi Francesco

Nanto, 16th September 2022