GRASSI PIETRE
VICENZA STONE SPECIALIST

Grassi Pietre srl
Via Madonetta, 2
36024 Nanto (VI) Italy
tel: +39 0444 639092

mail: info@grassipietre.it
www.grassipietre.it
R.E.A. 291917
P.IVA – C.F. 03013000249

DECLARATION OF PERFORMANCE
N° PDM_23-07_rev.02

1. **Unique identification code of the product-type:** Vicenza Stone slabs (biosparrudite) Pietra Del Mare quality for exterior claddings, exterior stairs and floorings, exterior floorings.

2. **Intended use of the construction product:**
   Modular tiles of natural stones for claddings (UNI EN 12057).

   Cut to size natural stone elements for exterior claddings (UNI EN 1469).

   Cut to size natural stone elements for exterior floorings and stairs (UNI EN 12058).

   Natural stones for floorings both for pedestrian or vehicular traffic (UNI EN 1341).

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 of assessment and verification of constancy of performance for the construction product:**
   System 4

5. **Notified body:**
   -

6. **Declared performance:**

Essential characteristic	**Result**	**Reference norm**
Petrographic description	biosparrudite	UNI EN 12407
Reaction to fire	Classe A1	UNI EN 13501-1 Decisione 96/603//EC
FLEXURAL STRENGTH UNDER CONCENTRATED LOAD:		UNI EN 12372
Breaking load *(lowest expected value):*	6,9 MPa	
Breaking load *(medium value):*	8,7 MPa	
Standard deviation:	0,9	
FLEXURAL STRENGTH UNDER CONCENTRATED LOAD (after freeze/thaw cycles according to UNI EN 12371):		UNI EN 12372
Breaking load *(lowest expected value):*	7,0 MPa	
Breaking load *(medium value):*	7,6 MPa	
Standard deviation ::	0,33	
COMPRESSIVE STRENGTH:		UNI EN 1926
Breaking load *(lowest expected value):*	43,9 MPa	
Breaking load *(medium value):*	48,0 MPa	
Standard deviation:	2,0	

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Essential characteristic	**Result**	**Reference norm**
Water absorption at atmosferic pressure:	7,4 %	UNI EN 13755
Apparent volumic mass (medium value)	2170 Kg/mc	UNI EN 1936
Open porosity:	18,3 %	UNI EN 1936
BREAKING LOAD AT DOWEL HOLE (th. 30 mm – direction of load application parallel to stratification)		UNI EN 13364
Breaking load *(lowest expected value):*	693 N	
Breaking load *(medium value):*	933 N	
Standard deviation:	134	
BREAKING LOAD AT DOWEL HOLE (th. 30 mm – direction of load application orthogonal to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	850 N	
Breaking load *(medium value):*	983 N	
Standard deviation:	72	
BREAKING LOAD AT DOWEL HOLE (th. 40 mm – direction of load application parallel to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	1459 N	
Breaking load *(medium value):*	1683 N	
Standard deviation:	111	
BREAKING LOAD AT DOWEL HOLE (th. 40 mm – direction of load application orthogonal to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	1568 N	
Breaking load *(medium value):*	1700 N	
Standard deviation:	74	
BREAKING LOAD AT DOWEL HOLE WITH USE OF KERF SYSTEM (th. 30 mm – direction of load application parallel to stratification):		UNI EN 13364
Breaking load *(medium value):*	800 N	
Standard deviation:	135	
BREAKING LOAD AT DOWEL HOLE WITH USE OF KERF SYSTEM (th. 30 mm – direction of load application orthogonal to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	439 N	
Breaking load *(medium value):*	522 N	
Standard deviation:	44	
BREAKING LOAD AT DOWEL HOLE WITH USE OF KERF SYSTEM (th. 40 mm – direction of load application parallel to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	894 N	
Breaking load *(medium value):*	1039 N	
Standard deviation:	70	
BREAKING LOAD AT DOWEL HOLE WITH USE OF KERF SYSTEM (th. 40 mm – direction of load application orthogonal to stratification):		UNI EN 13364
Breaking load *(lowest expected value):*	940 N	
Breaking load *(medium value):*	1071 N	
Standard deviation:	69	

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Essential characteristic	Result	Reference norm
RESISTANCE TO SLIP SRV:		UNI EN 14231
Surface finishing: brushed and sealed		
SRV "dry":	52	
SRV "wet":	36	
Surface finishing: brushed and not sealed		
SRV "dry":	57	
SRV "wet":	55	
Surface finishing: honed and sealed		
SRV "dry":	63	
SRV "wet":	50	
Surface finishing: honed and not sealed		
SRV "dry":	58	
SRV "wet":	65	

Essential characteristic	Result	Reference norm
ACCELERATED AGING THROUGH THERMAL SHOCK:		UNI EN 14066
Variation of open porosity as per UNI EN 1936	+ 3,9 %	
Variation of flexural resistance as per UNI EN 12372	7,8 MPa	

RESISTANCE TO SLIP *(medium value):*	74	USRV – UNI EN 1341 - app. D
ABRASION RESISTANCE:	28,5 mm	UNI EN 1341 - app. C

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 – CEO

The Legal Representative
Grassi Francesco

Nanto, 3th July 2023