CASTLE 5 STUDIOS
NEW YORK · LONDON

TECHNICAL DATA SHEET

SPECIFICATION:

Single layer tiles for indoor and outdoor flooring and cladding, produced by means of the vacuum-packing process with vibro-compaction.

Made of a high concentration of stony materials (marbles-granites-quartz-siliceous stones, ..) bonded together with white cement Portland 5.25 Class 1, and water.

Water-cement ratio approx. 0,30%

The tiles are calibrated and rectified.

TECHNICAL CHARACTERISTICS:

- Colours resistant to light and UV rays
- Tiles calibrated and rectified on all four sides, chamfered edges
- It can be onsite polished once installed
- Reaction to fire Class $A1_{fl}$ (fireproof)
- High resistance to wear, to compression and atmospheric agents
- Available in finishes to fulfil slip rating requirements (certified R9, R10, R13 accordingly to the current European standards).

Dimensions: **400x400 mm thickness 15 mm (upon request thickness up to 30 mm)**
600x600 mm / 600x300* cm thicknes 20 mm (upon request thickness up to 30 mm)
(*nominal size)
Other sizes available upon request

PHYSICO – MECHANICAL CHARACTERISTICS*					
Accordingly to European standards					
BINDER	CEMENTO PORTLAND CLASSE 1 / Cement Portland class 1				
AGGREGATE	**MARBLE LASA**	**MARBLE BOTTICINO**	**RIVER STONE**	**GRANITE MONTORFANO**	**STANDARDS**
FLEXURAL STRENGHT	R_{tfm}= 11,0 MPa	R_{tfm}= 12,6 MPa	R_{tfm}= 9,7 MPa	R_{tfm}= 11,5 MPa	EN 14617 – 2:2004
RESISTANCE TO COMPRESSION	R_m= 86 MPa	R_m= 71 MPa	R_m= 101 MPa	R_m= 102 MPa	EN 14617 - 15:2005
RESISTANCE TO ABRASION	20,6 mm	19,2 mm	16,9 mm	15,7 mm	EN 13748 – 1:2004 / AC:2005
WATER ABSORBTION (% in weight)	$W_{m,a}$ 3,57 %	$W_{m,a}$ 3,88 %	$W_{m,a}$ 3,50 %	$W_{m,a}$ 3,76 %	EN 13748 – 1:2004 / AC:2005
REACTION TO FIRE	CLASS $A1_{fl}$	CLASSE $A1_{fl}$	CLASS $A1_{fl}$	CLASS $A1_{fl}$	EN 13748 – 1:2004 / AC:2005
RESISTANCE TO COLD/ FREEZE	RESISTANT	RESISTANT	RESISTANT	RESISTANT	DIN-52104

*   Medium values after 28 days of seasoning.
**   The physico-technical characteristics data indicated are related to one colour sample of each Serie.
     Since Ecostone® is a product made of natural stony components, there data various in respect to the colour
     choice (and to its natural stony components).

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