

Supplementary Material

Table S1. Amount of product retained according to different type of analyses for Noto stone.

Analysis	Quantity of Product Retained (kg/m ²)			
	ET B1	ET B2	CA B1	CA B2
WAC/ DR	0.101 ± 0.009	0.051 ± 0.019	0.122 ± 0.026	0.013 ± 0.002
WVP	0.028 ± 0.002	0.017 ± 0.001	0.017 ± 0.001	0.010 ± 0.000
MIP	0.208 ± 0.005	0.033 ± 0.002	0.047 ± 0.013	0.025 ± 0.001
CM	0.028 ± 0.003	–	0.057 ± 0.013	–
UPV/DRMS	0.044 ± 0.035	–	0.084 ± 0.019	–

Notes: WAC, Water absorption through capillarity; WVP, water vapour permeability; MIP, mercury intrusion porosimetry; CM, colorimetric measurement; UPV, ultrasonic pulse velocity; DRMS, drilling resistance measurement system.

Table S2. Amount of product retained according to different type of analyses for Vicenza stone.

Analysis	Quantity of Product Retained (kg/m ²)			
	ET B1	ET B2	CA B1	CA B2
WAC/ DR	0.060 ± 0.010	0.025 ± 0.009	0.108 ± 0.008	0.040 ± 0.001
WVP	0.011 ± 0.002	0.019 ± 0.001	0.027 ± 0.007	0.014 ± 0.001
MIP	0.039 ± 0.001	0.053 ± 0.006	0.038 ± 0.030	0.062 ± 0.001
CM	0.014 ± 0.003	–	0.113 ± 0.025	–
UPV/DRMS	0.012 ± 0.002	–	0.210 ± 0.030	–

Notes: WAC, Water absorption through capillarity; WVP, water vapour permeability; MIP, mercury intrusion porosimetry; CM: colorimetric measurement; UPV: ultrasonic pulse velocity; DRMS: drilling resistance measurement system.

Table S3. Amount of product retained according to different type of analyses for Lecce stone.

Analysis	Quantity of product retained (kg/m ²)			
	ET B1	ET B2	CA B1	CA B2
WAC/ DR	0.115 ± 0.016	0.114 ± 0.027	0.097 ± 0.021	0.010 ± 0.003
WVP	0.026 ± 0.002	0.019 ± 0.001	0.028 ± 0.008	0.012 ± 0.000
MIP	0.016 ± 0.011	0.025 ± 0.001	0.063 ± 0.008	0.022 ± 0.006
CM	0.026 ± 0.002	–	0.047 ± 0.005	–
UPV/DRMS	0.065 ± 0.002	–	0.012 ± 0.002	–

Notes: WAC, Water absorption through capillarity; WVP, water vapour permeability; MIP, mercury intrusion porosimetry; CM, colorimetric measurement; UPV, ultrasonic pulse velocity; DRMS, drilling resistance measurement system.