

TECHNICAL DATA

Testing and Evaluation Results

RESULTS AND OBSERVATIONS

Property	Test Result (Mar '03 – Sep '03)	Test Result (May '06 – Mar '07)	Requirement	Pass/Fail	Evaluation Methods
Dimensions					
- Length, mm	546	---	≤900	Pass	CCMC TG 07483
- Width, mm	159	---	≤900	Pass	
- Thickness, mm	69	---	≤70	Pass	
- Area, m ²	0.09	---	≤0.26	Pass	
Weight (saturated), kg/m²	70	---	≤75	Pass	ASTM C 140-01
Density, kg/m³	1451	1429	Report value	Report value	ASTM C 140-01
Moisture Properties					
- Water absorption, % by mass	11	12	Report value	Report value	ASTM C 140-05A BS EN 1925 : 1999
- Coefficient of water absorption, kg/m ² /sec ^{1/2}					
o Back face	0.0368	---	Report value	Report value	ASTM E 96-00
o Front face	0.0210	---	Report value	Report value	
- Vapor permeance, kg/m ² •s•Pa	---	1.18 x 10 ⁻¹⁰	Report value	Report value	
Strength					
- flexural					ASTM C 99-87 ASTM C 880-06
o Wet, MPa	7.52	4.31	Report value	Report value	ASTM C 140-01
o Dry, MPa	3.89	4.39	Report value	Report value	
o Compressive, MPa	29	---	≥12	Pass	
o P.S.I.	4163	---			
Shear Bond, MPa	0.76	---	≥0.35	Pass	CCMC TG 07483 6•5•4
Freeze / Thaw Resistance,					
- Change of mass, %	3	---	≥-3	Pass	CCMC TG 07483
- Visual examination	No deleterious effect	---	No deleterious effect		section 6•5•6
Wind Load Resistance, qualified geographical wind Rating					section 6•5•6 CCMC TG 07483
- Installed over solid sheathing	Q ₁₀ < 0.8 kPa	---	No permanent deterioration	Pass	ASTME 330-02
- Installed over wood strapping	---	Q ₁₀ < 0.8 kPa			
Impact Resistance, safety and performance					
Installed over solid sheathing	No significant deterioration	---	No significant deterioration	Pass	CCMC TG 07483 subsection 6•5•8
Installed over wood strapping	---	No significant deterioration			
Fire Protection, % by mass	7	---	<20	Pass	CAN4-S114-M8D (R1997)
Thermal Resistance	R 0.44	K 4.033	----	----	

Test Samples

The selected product was identified as Centurion Manufactured Stone and was randomly sampled in varying sizes and thicknesses. Additionally, a crate containing approximately 125 sq.ft. of various sized pre-cast stone was sampled that is similar in appearance and texture to natural stone. The concrete stone is composed of Portland cement, white masonry cement, fine and course shale aggregates, ceramic microspheres, concrete admixtures, and water as required for casting.

NOTE: DATA FIGURES WILL VARY WITH COMPANY'S WHO FRANCHISE OR HAVE MULTI-FACTORY SITES. ASK FOR DATA FROM THE FACTORY SITE THE STONE IS PRODUCED AT. (AVAILABLE RAW MATERIALS FROM WHICH THE STONE IS PRODUCED WILL CHANGE THE DATA FIGURES)

