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Physical Properties for Architectural Pre Cast

- Compressive Strength - Per ASTM C39: 6,500 psi minimum for products at 28 days
- Absorption - Per ASTM C642: 6% maximum by the cold water method
- Air Content - Per ASTM C231, for wet cast product shall be 4-8% for units exposed to freeze-thaw environments. Air entrainment is not required for VDT products.

Physical Properties for Architectural Cast Stone

- Compressive Strength - Per ASTM C1194: 6,500 psi minimum for products at 28 days
- Absorption - Per ASTM C1195: 6% maximum by the cold water method
- Air Content - Per ASTM C173 or C231, for wet cast product shall be 4-8% for units exposed to freeze-thaw environments. Air entrainment is not required for VDT products.
- Freeze-thaw - Per ASTM C1364: The CPWL shall be less than 5% after 300 cycles of freezing and thawing.
- Linear Shrinkage - Per ASTM C426: Shrinkage shall not exceed 0.065%.

Performance Characteristics					
Physical Properties Comparison Chart					
Cast Stone Requirements of the American Society of Testing Materials and the Construction Specification Institute					
*Not all compared products have ASTM requirements					
Product Type	*Number	PSI Minimum	Air Content Range	Absorption Maximum	Freeze-thaw Maximum loss
Cast Stone (Dry)	ASTM C 1364	6,500	NA	6%	5% @300 cycles
Cast Stone (Wet)	ASTM A 1364	6,500	4%-6%	6%	5% @300 cycles
Architectural Precast	CSI 03450	6,500	4%-6%	6%	NOT REQUIRED
Limestone Dimension Stone	ASTM C 568	Grade II 4,000	NA	7.50%	NOT REQUIRED
Calcium Silicate Brick (Sand-Lime Brick)	ASTM C 73-99a	Grade: MW 3,500 SW 5,500	NA	18% 15%	NOT REQUIRED

*As per the Cast Stone Institute Technical Bulletin #49