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Precast Concrete Product Data

Product Data: Most commonly used for Sills, Headers, and Keystones. This product is also used in many other specialized decorative shape applications. Our material is used adjacent to and in conjunction with normal masonry. It also installs using standard masonry materials and techniques.

Design: Shop drawings are submitted for verification of profiles, dimensions, and surrounding construction of Precast units. Recommended attachment details are indicated on the shop drawings. Attachment methods shown on shop drawings are suggestions only. It is the responsibility of the installer to meet all local building codes, verify job conditions and adjust installation procedures accordingly. Some site cutting and/or grinding of parts may be required to suit job conditions. Field shimming may be required.

Material Specs:

Cement	Portland Cement: ASTM C 150, Type I/II.
Course Aggregate	Except as modified by PCI MNL 117, ASTM C 33, with coarse aggregates complying with Class 5S. Stockpile fine and coarse aggregates for each type of exposed finish from a single source (pit or quarry) for Project.
Fine Aggregate	ASTM C 330, 3/4 inch (19 mm), nominal maximum aggregate size.
Color	Iron oxide pigments conforming to ASTM C-979. Amount of pigment shall not exceed 10% by weight of the cement used.
Air Entraining Admixtures	ASTM C 260, certified by manufacturer to be compatible with other required admixtures.
Water	Potable water free from impurities.
Air Entrainment	Wet cast mixture maintains 5-7% air entrainment where surfaces are exposed to freeze-thaw. Admixture conforms to ASTM C-260.
Reinforcing Steel	Carbon-Steel Shapes and Plates: ASTM A 36/A 36M. Carbon-Steel Headed Studs: ASTM A 108, AISI 1018 through AISI 1020, cold finished, AWS D1.1/D1.1M, Type A or B, with arc shields and with minimum mechanical properties of PCI MNL 117, Table 3.2.3. Conforms to ASTM 615 and deformations conform to ASTM M-305. Most common is M13 #4, Grade 60 rebar, and 1/4 inch HR round steel.
Strength	Comprehensive strength of 5,000 to 8,000 psi at age 28 days depending on mixture and additives, as determined by tests of 6 inch cylinders.

Delivery: Precast units are crated or palletized at the plant. Crated units are delivered to the jobsite via truck.

Storage: Store crated GFRC products on a level surface protected from weathering and damage. Do not unpack crates until immediately prior to installation.

Handling: Use special care to prevent damage to material surface; do not allow acidic materials to come in contact with surface, as degradation and discoloration can occur.