

# RhinoRock Concrete Fence

## Precast Fencing

### Architectural Reference Specifications

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#### **PART 1 – GENERAL**

##### **1.1 SUMMARY**

- A. Includes But Not Limited To:
  - 1. Furnish and install precast fencing elements as described in Contract Documents.
  - 2. Furnish and install concrete system for fencing.
- B. Related Requirements:
  - 1. Section under 03 3053: miscellaneous cast-in-place concrete

##### **1.2 REFERENCES**

- A. Reference Standards
  - 1. ASTM International
    - a. ASTM C33/C33M-08, 'Standard Specification for Concrete Aggregates.'
    - b. ASTM C150-07, 'Standard Specification for Portland Cement.'

#### **PART 2 – PRODUCTS**

##### **2.1 PERFORMANCE**

- Capacities of glass fiber reinforced concrete fencing panel
- min. of 5,000 psi concrete
- Ultimate tensile strength of glass fiber reinforced concrete: 1,400-2,100 psi.
- min flexural load of gfrc fencing panel: 40lbs/sqft
- Min. wind load capacity of gfrc fencing panel: 100 mph exposure C.

##### **2.2 MANUFACTURED UNITS**

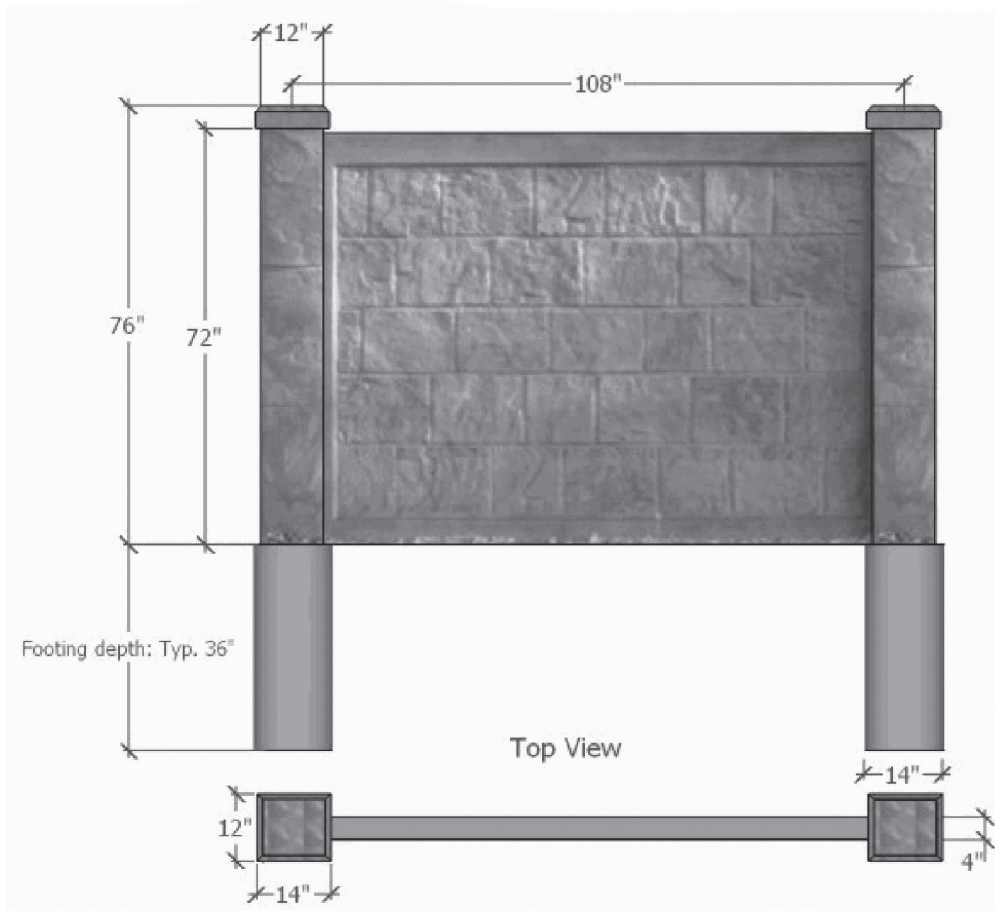
- Materials
- Glass Fiber Reinforced Concrete with Expanded Polystyrene Foam Core Fencing Panels
- Cement ASTM C150, Type II
- Glass fibre: Alkali resistance glass fiber(min. 3.75% by volume)
- Expanded Polystyrene foam core
- Min. 5/16" thick GFRC skin that completely encapsulates foam core
- Fence panel dimensions: 72" tall x min. 102" long x min. 4.25" thick at edges
- Columns(min. 9' center spacing)
- Solid precast with minimum compressive strength of 4000 psi
- 4-6% air entrainment
- Dimension of column (min. 12"x72"x min. 10")
- Column Caps
- Dimension of cap(min. 14" x min. 12" x 4" tall)

- Cap to have brick tie cast in to bottom of cap that is used for mechanical attachment to column grout cell.
- B. Approved manufacturers
  - 1. RhinoRock Concrete Fencing: PO Box 971178 Orem, Utah (801) 735-8877 www.rhinorock.com
  - 2. Others if approved prior to bidding

#### **PART 3—EXECUTION**

##### **3.1 INSTALLATION**

- A. Footing
  - 1. min. 14" diameter round pier footing minimum depth of 36"
  - 2. min. 3000 psi concrete
  - 3. place one #5(min.) bar ASTM A615 Grade 60center of pier footing min. 18" into concrete pier while concrete in plastic state. Bar to be min. 60" above pier footing.
  - 4. elevation difference between adjoining piers to be less than 3/8"
- B. Fence Installation
  - 1. set fence panels level within ¼" over 48"
  - 2. set columns plumb within ½" over 72"
  - 3. set caps level and ensure that brick tie cast into column cap is set into grouted column cell while grout in plastic state to ensure mechanical connection between column and cap.
- C. Grouted columns
  - 1. grout each column full with min 3,000 psi grout mix
  - 2. install columns so that gap between panel surface and column is less than ½".
  - 3. brace panels according to manufacturers recommendations.
- D. General
  - 1. Fence height from grade to be 69-72"
  - 2. Both sides of fence to have same texture



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