



## SECTION \_\_\_\_\_

### 82R™ FACTORY PREFABRICATED SOLID GLASS BULLET AND COMPOSITE PANEL

#### PART 1 - GENERAL

##### 1.1 DESCRIPTION OF WORK

- A. Extent of the Glass Paver and Composite Panels as indicated on the drawings.
- B. Principal Work in this section includes:
  - 1. 82R™ Glass Bullet and Composite Panels
  - 2. Anchors, fasteners, and similar items
  - 3. Glazing materials and sealant for panels

##### 1.2 DESCRIPTION OF PANELS

- A. Panels shall be factory prefabricated and glazed 82R™ Panels manufactured by Light Penetrating Systems, LLC dba Circle Redmont®, 1213 Medina Rd, Medina OH 44256 (800-358-3888 321-259-7374). Panels shall be of overall sizes as detailed on the drawings. Composite framework shall be produced to meet or exceed the specified requirements. Solid Glass bullet units shall be Circle Redmont® standard, replaceable type, glass units. Glass units shall be initially factory installed in respective cell openings using Circle Redmont® standard sealant and bedding material.

##### 1.3 QUALITY ASSURANCE

- A. Structural: Design, engineer and fabricate the panels to provide a stable assembly as required.
- B. Manufacturer of Panels: The manufacturer of the prefabricated panels shall be a firm with not less than ten (10) years of successful experience in supplying the same type of panels as required for this project.
- E. Design Criteria: The drawings and specifications are based on a specific type of panel by a single manufacturer. Equivalent type panels by another manufacturer may be acceptable only if deviations in dimension, profile, appearance and performance history are minor and do not materially detract from the design concept or intended performances, as judged solely by the Architect.

If a substitute is being offered as an "Or Equal" to the specified products, in order to be considered, the Contractor will notify the Architect within 5 business days of award of contract of such intent of substitution and upon notification by the Architect the Contractor will have three business days to provide adequate proof of equivalency, i.e.; documentation that the "Or Equal" meets the minimum characteristics of the ordering description or specification. Submission of proof of equivalency and samples shall be at the bidder's expense and no compensation shall be offered by Architect or Owner.

- F. The manufacturer shall warrant the panels to be free from manufacturing defects in either materials or workmanship for a period of one (1) year from the date of shipment. The manufacturer's warranty does not include glass breakage, damage caused by improper handling or use, improper installation, vandalism, abuse or natural conditions exceeding standard performance requirements.

Where the manufacturer is contacted and upon inspection finds that performance failure is due to defective materials of fabrication of the factory prefabricated **82R™ Glass Bullet & Composite Panels**, all materials

necessary to repair will be provided by the manufacturer at no extra cost to the customer. Freight and related charges not included.

The manufacturer's liability is limited to materials in the factory prefabricated panels only and the manufacturer shall not be liable for damage caused by handling by contractor and installer, installation procedures, and consequential damages or expenses.

The contractor and installer shall furnish a written warranty covering defects in handling, installation procedures, materials and workmanship and field applied perimeter sealant work for a period of one (1) year from the date of installation. The contractor and installer's liability shall be limited to the prompt repair or replacement of panels, materials and/or perimeter sealant work.

#### 1.4 SUBMITTALS:

- A. Shop Drawings: Submit shop and erection drawings at large scale clearly showing sections of panels with all connections, composite panel thickness and profiles. Identify all materials. Locate and identify shop and field sealants on drawings. Show adjacent structural elements. G.C. shall provide accurate field dimensions to Light Penetrating Systems, LLC dba Circle Redmont® and coordinate all efforts with Light Penetrating Systems, LLC dba Circle Redmont® to insure Architect's design intent.
- B. Samples: Submit a full-size sample of the Glass Bullet units, which are to be factory installed in the composite frame.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Panels shall be factory fabricated Light Penetrating Systems, LLC dba Circle Redmont® **82R™ Solid Glass Bullet and Composite Panels** as manufactured by Light Penetrating Systems, LLC dba Circle Redmont®, 1213 Medina Rd, Medina OH 44256 (800-358-3888 / 321-259-7374). Panels by other manufacturers will be considered only if the manufacturer and the panels comply fully with these specifications and the drawings.
- B. The factory prefabricated panels shall consist of the following:
  - 1. Panels shall be factory fabricated and glazed, of overall sizes as detailed on the shop drawings. Composite materials shall be manufacturer's standard and shall be produced to meet or exceed the specified performance requirements.
  - 2. Circle Redmont® standard replaceable type, Glass Bullets properly spaced according to manufacturer's standard on center dimensions. Glass units shall be initially factory installed in respective cell openings; sealed using Circle Redmont® standard sealant material and bedding material.

#### 2.2 FABRICATION AND WORKMANSHIP

- A. Maintain the visual design concept including member sizes, profiles and alignment components. Coordinate this work with that of other trades.
- B. Factory assemble each panel at the manufacturing facility employing qualified personnel solely engaged in prefabricated panel production.

## **PART 3 - EXECUTION**

### **3.1 STORAGE AND HANDLING**

- A. G.C. shall coordinate and cooperate with Light Penetrating Systems, LLC dba Circle Redmont® to ensure handling of panels in a manner that will prevent undue stress on component parts, sealants and structural members. Do not rack, torque, or cause load forces in an inappropriate manner. Lift panels from top only unless specifically instructed by the manufacturer to prevent damage to finished surfaces.
- B. Store panels in a dry place, off the ground. Bear fully along all supported edges on level and true structural supports.
- C. Handle materials to prevent damage to finished surfaces. Do not install components which have been damaged or stained.
- D. Upon completion of installation, G.C. shall protect panels from damage caused by ensuing work of other trades.

### **3.2 PANEL INSTALLATION**

- A. Contractor shall coordinate all efforts with Light Penetrating Systems, LLC dba Circle Redmont® and ensure that panels are properly set. Top of panels shall finish flush with adjoining surfaces unless shown otherwise on drawings. Where necessary, build up support ledges and beams as required with materials similar to support members, prior to placement of panels. Then fastened as indicated on shop drawings.
- B. Allow nom. spacing between panels and adjacent surfaces and between adjoining panels as shown on shop drawings.
- C. Protect installed panels from damage during ensuing construction operations.

### **3.3 PAINTING**

- A. Composite Panels shall receive initial factory applied Circle Redmont® standard black patina finish.

### **3.4 CLEANING**

- A. Maintain installed panels, including glazing, in reasonably clean condition during construction operations. Remove any stains or materials which may have an adverse effect on panel materials and finishes. Remove any excess glazing compound and sealants.
- B. Immediately prior to the date of substantial completion clean glazing units to remove any accumulations of dirt, paint stains, etc. Glazing shall be cleaned on both inside and outside surfaces.

### **3.5 REPLACEMENT INSTRUCTION**

- A. G.C. to furnish the Owner with a copy of the panel manufacturer's complete printed instructions for replacement of any damaged glazing units.

## **END OF SECTION**