PART 1  GENERAL

1.1  SECTION INCLUDES
   A. Glass fiber reinforced gypsum fabrications as indicated on the drawings.

1.2  RELATED SECTIONS
   A. Section 03490 - Glass Fiber Reinforced Concrete.
   B. Section 04720 - Cast Stone.
   C. Section 05500 - Metal Fabrications: Supplementary supports for large items.
   D. Section 06100 - Rough Carpentry: Supplementary supports for large items.
   E. Section 06610 - Glass Fiber Reinforced Plastic Fabrications.
   F. Section 09900 - Paints and Coatings: Field painting and sealing prior to painting.

1.3  REFERENCES

1.4  SUBMITTALS
   A. Submit under provisions of Section 01300.
   B. Product Data: Manufacturer's data sheets on each product to be used, including dimensions, finishes, storage and handling requirements and recommendations, and installation recommendations.
C. Shop Drawings: For custom items, provide drawings showing dimensions, layout, joints, details, and interface with adjacent work; include field measured dimensions of the spaces where items are to be installed, if critical to proper installation.

D. Samples: For each custom finish specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Transport, lift, and handle units with care, avoiding excessive stress and preventing damage; use appropriate equipment.

B. Store products in manufacturer's unopened packaging until ready for installation, in a clean dry area protected from weather, moisture and damage; store units upright and not stacked unless permitted by manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Stromberg Architectural Products Inc; PO Box 8036, I-30 West, 4400 Oneal, Greenville, TX 75404. ASD. Tel: (903) 454-0904. Fax: (903) 454-3642. Email: sales@strombergarchitectural.com. www.strombergarchitectural.com.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

A. Glass Fiber Reinforced Gypsum Fabrications: High density gypsum reinforced with continuous filament glass fiber mat and structural reinforcing as required.

1. Glass Content: 5 to 6 percent by weight.
2. Density: 103 to 112 pcf (1650 to 1795 kg/cu m).
3. Shell Thickness: 1/8 to 3/16 inch (3 to 5 mm), nominal.
4. Flame Spread Index: 0, when tested in accordance with ASTM E 84.
5. Flexural Strength: 3200 to 4000 psi (22 to 27.5 MPa), when tested in accordance with ASTM D 790.
6. Modulus of Elasticity: 2.1 to 2.2 x 10^5 psi (1450 to 1515 MPa), when tested in accordance with ASTM D 790.
7. Tensile Strength: 1200 to 1400 psi (8.3 to 9.6 MPa), when tested in accordance with ASTM D 638.
8. Impact Strength: 8.0 to 8.8 ft lb/sq in (13 to 14.4 J/sq mm), when tested in accordance with ASTM D 256.
9. Hardness: M 72, when tested in accordance with ASTM D 785, Rockwell.
10. Variation from Dimensions Indicated on Drawings: Plus and minus 1/8 inch (3 mm), maximum.
11. Variation from Plane Along Edge or Surface: Plus and minus 1/16 inch per linear foot (1.5 mm in 300 mm), maximum.
12. Outside Corner Radius: 1/16 inch to 1/8 inch (1.5 to 3 mm).
13. Draft Angle: 3 degrees, minimum, on returns, setbacks, reveals, and grooves.
14. Items Too Large or Heavy to be Adhesively Installed: Provide concealed anchorage points for plaster type wire anchors.
B. Joint Cement: Liquid Nail, or equivalent.
C. Joint Tape and Compound: Types recommended for gypsum wallboard work.

PART 3  EXECUTION

3.1  EXAMINATION
A. Do not begin installation until substrates have been properly constructed; verify that substrates are plumb and true.
B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
C. Check field dimensions before beginning installation. If dimensions vary too much from design dimensions for proper installation, notify Architect and wait for instructions before beginning installation.

3.2  PREPARATION
A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Install supplementary temporary and permanent supports as required for proper installation.

3.3  INSTALLATION
A. Install in accordance with applicable code and manufacturer's recommendations, plumb and true to line; shim where necessary.
B. Coordinate work with related gypsum wallboard work.
C. Join pieces with cemented butt joints except at control and expansion joints.
D. Provide control joints at not more than 35 feet (10.5 m) on center if not indicated on drawings.
E. Provide expansion joints where moving joints in substrate occur.
F. Finish joints the same as specified for adjacent gypsum board work in Section 09260.
G. Finish joints and surfaces as required for Level 5 in ASTM C 840.

3.4  PROTECTION
A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION