

**1. Product Name**

Glass Reinforced Gypsum (GRG)
Glass Fiber Reinforced Cement (GFRC):

- Access Panels
- Domes
- Column Covers

2. Manufacturer

Castle Access Panels & Forms, Inc.

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CANADA

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3. Product Description

Basic Use: Castle Access Panels & Forms, Inc., manufactures Glass Fiber Reinforced Gypsum (GRG) & Glass Fiber Reinforced Cement (GFRC) products for interior new construction and renovation projects. The GRG product line includes Access Panels, Domes, and Column Cover that replicate the appearance of plaster, but are significantly lighter and more versatile. Castle Access Panels & Forms, Inc. has both standard and custom designs for installation within shopping malls, churches, universities, office buildings, upscale residences and other architectural applications requiring strong, lightweight, flexible and fire retardant elements. GRC is a decorative non-load bearing material and as such the manufacturer cannot be held responsible for structural, load, or seismic considerations.

4. Composition & Materials

Castle Access Panels & Forms, Inc GRG/GFRC products consist of glass-fiber reinforcing and high strength alpha hemi-hydrate gypsum cement (FRG), Potable Water and PORAVER Expanded Glass Granules – Fibrous Glass CAS 65997-17-3 Units will be suitably reinforced with additional materials as required. GRG/GFRC units are supplied primer ready. Finishing is specified elsewhere and shall be applied after GRG/GFRC units are installed. Exposed fasteners shall be stainless steel. All other fastening or attachment devices shall be appropriately plated or galvanized.

5. Seamless Access Panels by Castle Access Panels & Forms, Inc - Custom sizes are available

Radius Corner or Square Corner POP-OUT Access:

9" x 9", 12" x 12", 12" x 18", 16" x 16", 18" x 18", 20" x 20", 24" x 24", 30" x 30", 12" x 18", 18" x 36"

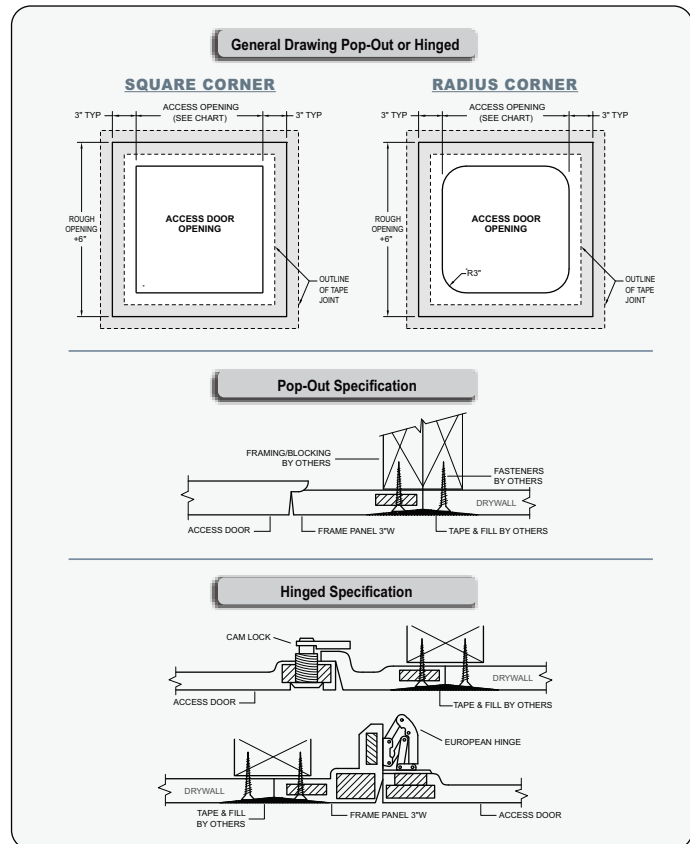
Round Pop-Out Access:

12" dia, 16" dia, 18" dia, 20" dia, 24" dia, 30" dia, 36" dia

Hinged Opening Access:

9" x 9", 12" x 12", 16" x 16", 18" x 18", 24" x 24"

Access Panels are installed with standard supplies, screws are #6 bugle head, and joints use standard tape joint compound. The panel has an edge thickness to accommodate 5/8" drywall, therefore, shimming may be required if adjacent material is not 5/8" drywall. Framing, Studs or Blocking (by installer) Substrate materials is determined by job-site conditions. The panel does not require regular framing, but can be connected to adjacent drywall using blocks or studs.



6. Column Covers are offered in the following sizes

Diameters - 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 34", 36", 38", 40", 42", 44", 46", 48"

Column Cover Heights – Available up to 15'; columns are stepped off at exact heights specified.

Columns exceeding 15' are made in stacking sections for field assembly

Column covers are recessed for tape and bed joints; they can be made without the recess for vertical caulk joints

7. Domes

<u>Description</u>	<u>Diameter</u>	<u>Rise</u>	<u>Description</u>	<u>Diameter</u>	<u>Rise</u>
Coffered	8 ft	2 ft	Smooth	4 ft	6" – 12"
Coffered	11 ft	2 ft	Smooth	5 ft	6" – 12"
Coffered	15 ft	2 ft	Smooth	6 ft	8" – 14"
Smooth	12"	12"	Smooth	8 ft	10" – 16"
Smooth	18"	12"	Smooth	10 ft	12"
Smooth	3 ft	6" – 12"	Smooth	11 ft	36"

Domes and Column Covers are available in custom shapes and sizes.

Colors

GRG/GFRC products are shipped from Castle Access Panels & Forms, Inc. as a natural white gypsum color with a smooth finish. Field finishing is required.

Benefits

Weights less than traditional stone or plaster, simplifying transport and installation

Has a superior fire retardant property - **Class A rated**

Can be cast to a variety of detailed shapes and sizes for increased design flexibility

Easily finished to interior design specifications

Provides a cost-effective, versatile design alternative

8. Applicable Standards

CERTIFICATION/REFERENCES:

Except as otherwise additionally indicated on the drawings or specified herein, the standards referred to below, shall apply to work under this section.

.1	ASTM C 473	Nail Pull Resistance
.2	ASTM C 473	Humidified Deflection
.3	ASTM C 947	Elastic Limits
.4	ASTM D 256	Impact Resistance
.5	ASTM D 638	Ultimate Tensile Strength
.6	ASTM D 638	Young's Modulus
.7	ASTM D 696	Coefficient of Linear Thermal Expansion
.8	ASTM D 790	Flexural Strength
.9	ASTM D 790	Flexural Modulus
.10	ASTM D 2583	Barcol Hardness
.11	ASTM E 84	Flame Spread Index,
.12	ASTM E 84	Smoke Developed Index

9. Technical Data

Manufacturer's product data, including copies of fire test reports.

Shell Thickness - 1/8" to 3/16"

Fastener Test Pull Out (Wood Stud) - 525 lb avg.

Fastener Test Pull Out (Metal Stud) - 215 lb avg.

Fastener Push Through Test - 350 lb avg.

Fuel Contribution (ASTM E84-80) - 0

Flame Spread (ASTM E84-80) - 0

Smoke Index (ASTM E84-80) - 0

Combustion (ASTM E84-80) - Non-Combustible

Class A Non-Rated