IntexForms, Inc.

Glass Fiber Reinforced Access Panels

Spec 2A (Rev.33)
Rev. September 2019

IntexForms, Inc. GFRG* - Glass Fiber Reinforced Gypsum Access Panels (For Interior Applications)

1 GENERAL

1.1 Scope:

Furnish all materials, labor, equipment and related services necessary to supply and erect Intex GFRG* units as indicated in the contract documents and in compliance with local codes.

1.2 Work Included:

1. Supply of IntexForms, Inc. GFRG* Access Panels
2. Erection
3. Joint Treatment
4. Supply and installation of backing supports, etc.

1.3 Related Work Excluded:

1. Gypsum Drywall
2. Finishes

1.4 Intent:

This specification is intended to generally outline the IntexForms, Inc. requirements. It is not intended to amend or change the manufacturer's specifications.

1.5 Responsibility:

The gypsum drywall contractor shall install and tape the work under this section, and will be responsible for coordinating the installation with gypsum drywall work and other trades.

1.6 Manufacturers:

IntexForms, Inc.
5421 84th Street. Sacramento, CA 95826
Tel: 916-388-9933 Fax: 916-388-9949

1.7 Samples and Submittals:

1. Submit shop drawings for approval showing plans, sections, details, joint treatment, reinforcing, fastening devices and the relation of the Intex product to the surrounding constructions.

2. Prior to production, and upon request erect one prototype unit on site or at the Intex plant for inspection by the architect.

1.8 Substitutions:

Companies desiring to submit proposals other than IntexForms, Inc. shall, at least 10 working days in advance of the bid date, submit to the architect all information of the system. These companies must have a minimum of 5 years experience and provide photographs and shop drawings of 3 projects similar in scope with names of the architects and contractors. Independent test data showing compliance with the specified system and 3 physical samples must also be submitted.

2 PRODUCTS

2.1 Materials:

1. Intex GFRG* units shall be prefabricated with high density gypsum, completely free of both asbestos and resin, reinforced with continuous random filament glass fiber mat.

2. Chopped strand fiber reinforcing is **not** permitted.

3. Plaster of Paris is **not** permitted

4. Units to be suitably reinforced with steel or wood.

5. Intex GFRG* shall be ready to receive primer and paint as specified elsewhere.

6. No additives are allowed under any circumstances. These include: polymers, retarders, accelerators, etc. The architect or his representative shall have access to the manufacturing facilities, either prior to contract award or thereafter, to inspect or verify compliance with these specifications.

2.2 Tolerances (Fabrication):

Dimensional - all directions	+/- 1/8”
Thickness - skin	+/- 1/16” / -0
Thickness - total unit	+/- 1/8”
Warpage or bowing	+/- 1/16” per foot

2.3 Physical Properties:

Shell Thickness Ceiling Mount Material	1/8" to 3/16"
Shell Thickness Wall & Floor Mount Material	3/16" to 1/4
Weight (depending on reinforcing)	1 - 2 lbs/sq ft
Density	103 - 112 lbs/cu ft
Ultimate Tensile Strength	1200 - 1400 psi

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2.3 Physical Properties: cont'd...

Mod. of Elasticity in Tension	2.7 - 3.8 x 10^6 psi
Mod of Elasticity in Flexure	2.1 - 2.2 x 10^5 psi
Glass Content	5 - 6% by weight
Impact Strength	8.0 - 8.8 ft lbs/in^2
Rockwell hardness	M72
Instron Failure Test (built in furring)	288 lbs min
Fastener Test Pullout (wood stud)	525 lbs avg
Fastener Test Pullout (metal stud)	215 lbs avg
Fastener Test Push Through	350 lbs avg
Uniform Load @ 25 PSF (Deflection in inches)	0.053 in avg
Racking Test @ 1,400 Load Pounds (Deflection in inches)	1.104 in / No Failure
Compression Test @ 8,000 PSF (Deflection in inches)	0.004 / No Visible Damage
Flexural Test @ 360 PSF (Deflection in inches)	0.350 / No Failure
Fuel Contribution (ASTM E84-800	0
Flame Spread (ASTM E84-80)	0
Smoke Index (ASTM E84-80)	0
Combustion (ASTM E-136)	non-combustible
Thermal Coefficient of Expansion	8.3 x 10^6 in/in/°F

3 EXECUTION

3.1 Delivery, Storage and Handling:

1. Transport and handle units in a manner that avoids excessive stresses or damage.

2. Store the units level on a clean and dry surface in an area protected from weather and damage, preferably in an upright position. Do not stack or lean units.

3.2 Pre-Installation Responsibility:

1. Units shall be installed plumb and level.

2. Fasten units with screws through the face.

3. Framing, hangers etc. as specified for gypsum drywall.

4. **Notes:**

A. Additional bracing, fastening points etc. not shown on the shop drawings may be required to ensure a proper installation.

B. To prevent reinforcing read-through, a skim coat may be required over the GFRG* units when subjected to certain lights conditions (atriums, etc.)

3.4 Taping, Patching and Control Joints:

1. Tape, float and sand all joints and provide control joints (where required) as specified under the gypsum drywall section of the specifications and as described in C.G.C. or U.S.G. Gypsum Construction Handbook - Second Edition.

2. Countersunk fasteners and damage is to be patched to match unit's texture. Use standard gyp board joint compounds.

3.5 Finishing:

1. See painting/texturing section of the specifications.

2. The painting contractor shall comply with A.S.T.M. C-840 specifications - specifically with regards to sealing.

4.0 Warranty:

Intex GFRC* is warranted for one (1) years from the date of acceptance to remain free from cracks, chips and marks caused by defective material or workmanship.

Note 1: Intex GFRG* is a gypsum based material and is meant to be used as an interior product only.

Note 2: Unfinished Intex GFRG* may exhibit slight imperfections, normally hidden by textured finishes. To obtain satisfactory results with smooth finishes, filling and sanding may be required, to hide imperfections inherent with GFRG*.

Note 3: Improper sealing, more than crowning, can cause tape joint read through after painting. This is due to the porosity differential between joint compound and Intex GFRG*. Ensure therefore, that the painting contractor seals all surfaces properly prior to finishing.

Note 4: Use of semi gloss or gloss paint (Level 5 Finish / AWCI Levels of Gypsum Board Finish) skim coat required! In areas where direct light or harsh light occur again skim coat required.