

Dens-Glass[®] Ultra Shaftliner[™] Architectural Specifications

Part 1 – General

1.0 Description

- A. Work in this section includes, but is not limited to: shaftwalls, stairwells and area separation walls.
- B. Related work specified elsewhere:

1. Brick masonry
2. Stone
3. Cold-formed metal framing
4. Rough carpentry
5. Finish carpentry
6. Joint sealers
7. Light-gauge metal framing

1.1 Submittals

- A. *Product data:* Submit manufacturer's descriptive literature indicating material composition, thickness, sizes and fire resistance.
- B. *Certificates:* Submit manufacturer's written certification that product meets specified requirements.

1.2 Quality Assurance

- A. *Fire-resistance ratings:* Where applicable, provide materials and construction that are identical to those of assemblies whose fire-resistance ratings are indicated.

1.3 Delivery, Storage and Handling

- A. *Delivery:* Deliver materials to the job site in manufacturer's original packaging, containers and bundles with manufacturer's brand name and identification intact and legible.
- B. *Storage and handling:* Store level and handle materials to protect against contact with damp and wet surfaces, exposure to weather, breakage and damage to edges. Provide air circulation under covering and around stacks of material.

1.4 Limitations

- A. Do not use Dens-Glass Ultra Shaftliner as a base for nailing or mechanical fastening. Fasteners should be flush to the face of the board, not countersunk.
- B. The use of forced air heaters creates volumes of water vapor which, when not properly vented, can condense on building materials. The use of these types of heaters and any resulting damage is not the responsibility of G-P Gypsum. Consult heater manufacturer for proper use and ventilation. Avoid any condition that will create moisture in the air and condensation on the shaftwall, stairwell or area separation walls during periods when the exterior temperature is lower than the interior.
- C. Dens-Glass Ultra Shaftliner is not a structural product and should not be used in lieu of plywood or steel where required.
- D. For all installations, design details such as fasteners, sealants and control joints per system specifications must be properly installed per system specifications. Openings and penetrations must be properly sealed. Failure to do so will void the warranty.
- E. Dens-Glass Ultra Shaftliner is exceptionally resistant to weather but it is not intended for immersion in water or sustained exposure to water and moisture. Cascading roof/floor water should be directed away from the product until appropriate covering is installed.

1.5 Warranty

- A. *Materials warranty:* Provide shaftliner manufacturer's standard warranty covering shaftliner materials for five years commencing on date of purchase.
- B. *Weathering warranty:* Provide shaftliner manufacturer's standard warranty covering in-place exposure damage to shaftliner for six months commencing on date of purchase by contractor.

Part 2 – Products

2.0 Shaftliner

- A. *Acceptable products:* Dens-Glass Ultra Shaftliner
- B. *Characteristics:*

1. Size:
 - a. Dens-Glass Ultra Shaftliner: 1" (25.4 mm) thick by 24" (610 mm) wide by 8' (2440 mm), 10' (3050 mm) or 12' (4270 mm) in length.
2. Composition:
 - a. Shaftliner manufactured with glass mats both sides and long edges; water-resistant, treated core.
3. Fire resistance:
 - a. Noncombustible when tested in accordance with ASTM E 136.
 - b. Flame spread 0 when tested in accordance with ASTM E 84.
 - c. Rated Type X when tested in accordance with ASTM E 119 and can be used as a replacement to any other generic assembly utilizing a 1" shaftliner product (see GA-600 for numeric assemblies).

2.2 Accessories

- A. *Fasteners:* For 25-gauge framing - Type S screws. For 20-gauge framing - Type S-12 screws.
- B. *Joint tape:* G-P Gypsum tape for reinforcing joints.
- C. *Joint compound:* Georgia-Pacific Ready-Mix All-Purpose Joint Compound for bedding taping, finishing joints, spotting fasteners.

Part 3—Execution

3.0 Preparation

- A. *General:* Follow G-P Gypsum recommendations for installation of metal framing and gypsum board for shaftwall systems.

3.1 Shaftwall

- A. Provide Dens-Glass Ultra Shaftliner where indicated on drawings. Install shaftwall in accordance with manufacturer's instructions.
- B. Use maximum lengths possible to minimize number of joints.
- C. *Metal framing:* Installation of J track, C-T studs and 1" shaftliner panels.
1. Lay out shaftwall in locations indicated on construction drawings.
 2. Anchor J track perimeter framing at abutting horizontal and vertical construction.
 3. Anchor with approved fasteners spaced maximum 24" o.c.
 4. Apply non-hardening, flexible sealant in a continuous application at the perimeter.
 5. Space C-T studs at 24" o.c. Adjust the spacing at ends of shaftwall construction so end studs are minimum 12" from the ends.
 6. Install the first shaftliner panel. The panel length shall be 3/4" less than the total height of the framed section. Plumb the panel against the web of the J track and bend out tabs in J track to secure the panel in place.
 7. Insert a C-T stud into the top and bottom J tracks and fit tightly over the previously installed 1" panel. Allow equal clearance between track and stud at top and bottom J track. The stud length shall be 3/4" less than the total height of the framed section.
 8. Install the second shaftliner panel inside the J track and within the tabs of the C-T stud.
 9. Install succeeding studs and panels in the same manner as described for the first and second panels until the wall section is complete.
 10. Anchor the final panel section at 12" o.c. with tabs from the J track.

11. Where wall heights exceed the standard or available length of shaftliner panels, the panels shall be cut and stacked with joints occurring within the top or bottom third of the wall height. The shorter panels shall be minimum 24" long and of sufficient length to engage 2 studs.
12. For doors, ducts or other large penetrations or openings, install J track as perimeter framing. Use 20-gauge track with a 3" back leg for elevator doors and block cavity. Install 12" wide gypsum filler strips for doors exceeding 7'-0" height.

CAUTION:

THIS PRODUCT CONTAINS CONTINUOUS FILAMENT FIBERGLASS

Fiber released during normal handling of this product can cause skin, eye and respiratory irritation. Avoid breathing dust and contact with skin and eyes. Follow these standard work practices:

- Wear long-sleeved, loose-fitting clothing, gloves and eye protection.
- Use a respirator, such as a 3M Model 9900 or equivalent.
- Wash exposed areas with soap and warm water after handling.
- Wash work clothes separately from other clothing; rinse washer thoroughly. Operations that generate high airborne fiber concentrations (over 10 fibers/cc) require additional respiratory protection.