



Shaftwall Installation Instructions

1. Lay out per construction drawings. Secure J track as perimeter framing on floor and plumb to ceiling and sides. Attach with suitable fasteners, spaced not more than 24" o.c.
2. Plan the stud layout 24" o.c. and adjust the spacing at either end so that the terminal stud will not fall closer than 8" from the end.
3. Erect the first 1" DensGlass Ultra® Shaftliner panel, cut 3/4" less than the total height of the framed section. Plumb the panel flush against the web of the J track and secure with 1-5/8" Type S screws 24" o.c. or bend out tabs in J track to secure panels in place. DensGlass Ultra panels can be installed with either side facing out, however some authorities may require labeling to be visible.
4. Insert a C-T stud, cut 3/4" less than the overall height, into the top and bottom J tracks and fit tightly over the previously installed 1" panel.
5. Install the next 1" DensGlass Ultra Shaftliner panel inside the J tracks and within the tabs of the C-T, C-H or I stud. Note that the edges of the panel are beveled to help guide the panel into the slotted and tabbed section of the stud.
6. Progressively install succeeding studs and panels as described above until the wall section is enclosed. The final panel section may be secured with 1-5/8" Type S screws or tabs from the J track at 24" o.c.
7. 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 with 12" wide gypsum board filler strips for doors exceeding 7'-0" height.
8. 1" DensGlass Ultra Shaftliner panels may be abutted, spliced or stacked within the cavity. The shorter panel should be minimum 2' long or longer to engage two stud tabs on each panel edge. Joints of adjacent panels should be alternately stacked or staggered to prevent a continuous horizontal joint. **NOTE: Fire tests were conducted without back blocking of shaftliner joints.**
9. For the 620 Series, finished one side, install the base layer of 1/2" ToughRock® Fireguard® C or 1/2" DensArmor Plus® Fireguard® C gypsum board horizontally with 1" Type S or S-12 screws spaced 24" o.c. (5/8" Fireguard Type X or 5/8" DensArmor Plus Fireguard Type X gypsum board may be used in lieu of 1/2" Fireguard C gypsum board, if desired). The horizontal joints should be offset from any splice joints in the shaftliner panels by at least 12". Install the face layer vertically with 1-5/8" Type S or S-12 screws spaced 8" o.c. All edge and end joints should be offset from the base layer by 24" o.c.
10. For the 621 Series, finished both sides, each side may be installed either horizontally or vertically with 1" Type S or S-12 screws spaced 8" o.c. Offset edges and ends on opposite sides 24" o.c.
11. For the 622 1-hour system, finished one side, apply the 5/8" ToughRock Fireguard Type X or DensArmor Plus Fireguard Type X gypsum board vertically with 1" Type S or S-12 screws spaced 8" o.c. around the perimeter and 12" o.c. in the field.
12. For the 630 3-hour system, apply the face layer of 5/8" ToughRock Fireguard C gypsum board with 2-1/4" Type S or S-12 screws 12" o.c.
13. When used as HVAC ducts, consult with HVAC engineer regarding level of caulking and sealant required. All joints on face layers are to be taped and finished and fasteners finished with joint compound meeting ASTM C 475. All penetration openings are to be filled with ToughRock® Fire-Halt® Sealant or other firestopping sealants.
14. For more information on firestopping through penetrations in shaftwall systems, contact Technical Services at 1-800-225-6119 or visit our Web site at www.gpgypsum.com and look under CAD drawings.