

- A:** Plastic pin rivet, easy to use. Drill a hole (.257" -F Bit)
- B:** Remove dust and filings from the hole. Insert rivet.
- C:** Hit the pin. The shank expands into or behind material for a tight, secure grip.
- D:** One piece nylon rivet, easy to use. Drill a hole (.281" -K Bit)
- E:** Remove dust and filings from the hole. Insert rivet.
- F:** Drive rivet flush

Fasteners

Fiber-Lite and **Fiber-Lite Liner** panels should be installed with non-corroding fasteners. Plastic pin rivets, chrome pin rivets, one piece nylon rivet, stainless nails or screws are recommended. Fasteners should be installed to fit snug but should not be overtightened. Always select proper size fasteners for installation.

Plastic Pin Rivet fastens panel to wood, metal, drywall, concrete, insulation material, etc...See diagrams A, B and C.

NOTE: If pin in rivet does not drive flush when fastening into solid materials and applications where expansion may be restricted, a larger hole is required, use .261" -G Bit.

Chrome pin rivet has high shear strength but should be used in low moisture areas. Installation is the same as plastic pin rivet.

One piece nylon rivet fastens panel to any wood substrate or wood stud. See diagrams D, E and F.

Stainless nails, screws, staples or nylon head screws can be used to install panels.

Adhesives

The use of adhesive when installing panels is recommended along with fasteners.

Henry #417 FRP Construction Adhesive is recommended or an equivalent general purpose construction adhesive. Whenever adhesive is used, follow the manufacturer's instructions carefully as many adhesives are flammable and some may not be compatible with paneling. Henry #444 Non-flammable FRP adhesive is also acceptable for use on new plasterboard (drywall or gypsum).

Adhesive should be used on studs in conjunction with fasteners when installing **Fiber-Lite**, **White-Wood**, **Kydex Prelaminated**, **Nu-Poly** or **Nu-Alum** panels for best installation. See diagram.

Fiber-Lite Liner Panels may be successfully installed over new plasterboard (drywall or gypsum) using only adhesive. However, it is **recommended** to use fasteners along with adhesive for best results. Adhesive failure is not panel failure.

Adhesive should be applied to wall surface with a serrated trowel or cartridges.

After applying adhesive tap surface of panel with a rubber mallet or block of wood to aid bonding of adhesive to wall and panel.

Fastening/Fastener Layout

First panel installed should be set true with a plumb line. Check plumb line during installation. Do not fasten edges of panel until moldings are in place. (Except when using face mounted moldings.)

Fiber-Lite Liner panel-fastener layout-solid wall

1. Fasten panel at center and work outward
2. Fasteners based on 16" o.c.
3. Fasteners should be staggered on opposite panel edges and next to division bar for a flat seam.
4. Liner panels may be pre-drilled for faster installation using a guide panel.
5. Less fasteners are required if panel is also installed with adhesive.

Fiber-Lite, White-Wood, Nu-Alum and Kydex Prelaminated panel-fastener layout-stud walls

1. Pre-fit each panel before fastening and cut panel if required to center on studs for proper fastening.
2. Apply vapor barrier behind panel installation if required. Always use vapor barrier in high moisture areas.
3. Stud walls 16" - 24" o.c. use minimum 3/8" panel substrate. Ceiling joists 16" o.c. use minimum 3/8" panel substrate; 24" o.c. joists use minimum 1/2" - 5/8" panel substrate.
4. Fastener frequency may vary with thickness of panel substrate.
5. On wood studs 16" o.c. use stainless nails on edges every 8" o.c. staggered on opposite panel edges. On center studs use plastic rivets every 24" o.c.. For 24" o.c. studs see diagram. See page 7 of **INSTALLATION INSTRUCTIONS & GUIDELINES For: Fiber-Lite[®], White-Wood[®], Ground Breaker[®], Nu-Poly[®], Nu-Alum[®], Kydex[®] Prelaminated Panels and Fiber-Lite[®] Liner Panels** for alternate methods.
6. If studs run horizontal, plastic or other types of fasteners may be used for complete installation of panels. Faster frequency same as in no. 5 or 6. See page 7 as above for alternate methods.
7. If only plastic fasteners are used for installation of panels, fasteners should be placed at 12" o.c. on edges and 16" o.c. on center studs.
8. Some types of panels may be compatible for commercial installations using fasteners on edges (8" o.c.) and adhesive on center stud(s). For example, **Fiber-Lite Panel** may be fastened on edges (flush mounted nails or drywall screw) and bonded to center stud(s), top and bottom plates with panel adhesive. Fasteners may be covered with surface mounted moldings (T-bar, 2 pc. division bar, batten, 2 pc. ISC, base cove, etc...). This results in a panel installation with no visible fasteners. See diagrams.

NOTE: If panel deflects from center stud(s) after this type of installation, fasteners will be required on center stud(s).

NOTE: Stud walls must be supported on opposite side of panel installation and **proper gauge** stud must be used for panel selected, to prevent deflection of wall system.