

## STORAGE

Always store WFI™ Panels flat, on pallets. Maximum 3 pallets high. When temporarily stored outdoors, cover WFI™ panels with a waterproof tarp.

Always ensure that WFI™ Panels are completely dry before installing them.

## HANDLING

Always handle WFI™ Panels by holding vertically. It is recommended that two people handle the panels.

## INSTALLATION

### 1. RECOMMENDED TOOLS FOR CUTTING

#### 12mm and smaller WFI™ Panel :

Use a knife with interchangeable blade and a T square to cut a straight line. Cut on the rough side, drawing a line with the knife, ensuring to exert enough pressure to cut through the fibreglass reinforcing mesh. Make two passes. Separate the two sections by applying lateral pressure.

#### 13mm and greater WFI™ Panel :

Use a circular saw with a thin blade for best results. A rotating saw can also be used but will produce a less precise cut. Cutting WFI™ Panels with electric tool will produce dust. Adequate personal protection equipment is required : **mask and safety glasses**.

To cut-out electrical outlets, use a drywall router with a blade that is suited to the panel's thickness.

**Note :** Always wear appropriate personal protection equipment when cutting WFI™ Panels. The product is free of any toxic material, but this does not eliminate the necessity of wearing a mask and safety goggles at all times to protect yourself from the dust.

### 2. INSTALLATION METHOD FOR WALLS AND CEILINGS

#### Wood frame :

Use a variable speed drill and cone-head self-drilling screws.

#### Metal frame :

Use minimum 18 gauge steel studs. Use a variable speed drill and cone-head self-drilling screws.

#### Framing :

Walls : 12mm (1/2") WFI™ Panel : maximum spacing 610mm (24") center to center

Ceilings : 12mm (1/2") WFI™ Panel : maximum spacing 410mm (16") centre to centre

Placing screws less than 12mm (1/2") from the edge of the panel and 50mm (2") from the corners is not recommended. Place screws every 300mm (12") on the edges and every 410mm (16") in the center.

### 3. INSTALLATION METHOD FOR FLOORS

Installation must respect local building code.

WFI™ Panels can be attached using 32mm (1-1/4") staples or greater with a pneumatic stapler or screwed at a distance of 300mm (12") center to center. This installation method is also valid for floating floors. However, using screws instead of staples will produce better results for the application of any other floor covering such as tile, ceramic, hardwood, etc.

**Caution :** the use of a pneumatic stapler can cause fragments to blast or cavities that are too deep. Test the pressure of the pneumatic stapler prior to using on WFI™ Panels.

**Caution :** Always walk on the floor's structure up to the until the WFI™ Panels are properly attached to avoid causing panel breakage or any accidents.

### 4. TYPE OF SCREW RECOMMENDED

Reliable #DSSG-8114  
GRABBER  
or equivalent

### 5. JOINT FINISHING

When finishing the joints, it is recommended to use a fibreglass strip instead of paper to avoid any cracking and or retaining moisture.

For exterior use of WFI™ Panels, non pre-mixed concrete based mortar is a good choice. It dries more quickly and is resistant to fire; joints can be sanded and painted after application. (Read the manufacturer's installation guide to determine drying time.)

- When the WFI™ Panel will be painted or covered with acrylic, the smooth side should be on the surface. If tile or ceramic is to cover it, install the WFI™ Panels rough side up.
- For interior installation, apply a latex primer before painting. For exterior installation, a sealer should be used (follow the manufacturer's instructions)

### 6. CLEAN-UP

Never dry sweep the dust and debris from cutting and installing WFI™ Panels. Always ensure to spray a fine mist of water or sweeping powder prior to sweeping in order to keep the fine particles of dust on the floor. A vacuum with an appropriate filter can also be used.

### 7. SAFETY

For maximum protection (minimal production of breathable dust), using a knife with interchangeable blades to cut WFI™ Panels is strongly recommended.

Always use an appropriate circular saw blade.

Never dry sweep – Use wet suppression methods, a vacuum cleaner equipped with a HEPA filter or a sweeping compound.

Never use grinders or diamond-tipped blades to cut WFI™ Panels.

Always comply with local Building Codes and safety standards and practices.

## APPLICATIONS

Due to its great flexibility, the uses for WFI™ Panels are almost limitless, both indoors and outdoors. Simply ensure the installation is carried out respecting the manufacturer's installation instructions and the applicable building code.

WFI™ panels are excellent for structural insulated panels (SIP). The material bonds wonderfully well with the polyurethane insulation.

The thermal resistance of WFI™ panels is equal to that of plywood (R1.2 sf.)