



 **EnergyShield® Ply**
Continuous Wall Insulation

 **EnergyShield® Ply Pro**
Continuous Wall Insulation

INSTALLATION GUIDE

Installation Guide for Nailable Continuous Wall Insulation



For the purposes of this document, the reference to EnergyShield® is inclusive of both **EnergyShield® Ply Pro** and **EnergyShield® Ply** Continuous Wall Insulation products, unless specifically noted.

THIS DOCUMENT ADVISES INSTALLATION OF ENERGYSHIELD REQUIRED FOR RESISTING WIND FORCES AND CLADDING WEIGHT. OTHER STRUCTURAL RESISTANCE ASPECTS OF THE WALL ARE NOT INCLUDED IN THESE INSTRUCTIONS, SUCH AS RACKING RESISTANCE OR LOAD PATH CONSIDERATION.

MATERIALS CHECKLIST

- Proper PPE
- EnergyShield continuous insulation
- Fasteners
- Straight edge
- Pencil
- Preferred cutting tools: utility or insulation knife, circular or table saw

PREPARATION

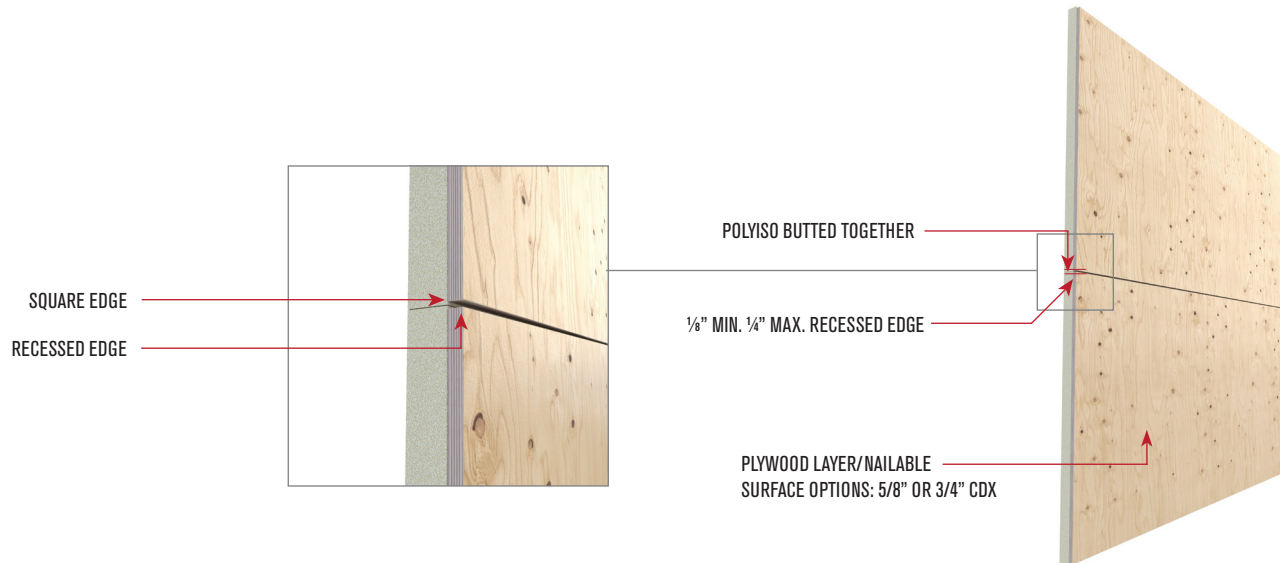
- Materials should be delivered to the jobsite undamaged. Inspect EnergyShield for damage related to transportation, handling, or weather. Separate and discard any product damaged or beyond repair as it may not be fit for intended use.
- Confirm compatibility with any components adjacent to EnergyShield. Follow component manufacturer's instructions for specific surface preparation and installation requirements.
- Always refer to local building codes and/or consult with a design professional to ensure compliance with applicable codes and regulations.
- Factory applied packaging is intended only for protection during transit.
- The temporary factory applied packaging should be slit or removed to prevent accumulation of condensation.
- When stored outdoors or on the job site, the insulation should be stacked on pallets at least three inches above ground level and completely covered with a weatherproof covering such as a tarpaulin.

GENERAL APPLICATION

- Orient EnergyShield vertically along base wall starting at a point providing firm, permanent support.
- Install EnergyShield direct to stud or concrete base wall with plywood to the exterior of the structure.
- By design, the foam core slightly overhands two adjacent edges of the composite $\frac{1}{8}$ " to allow proper expansion and contraction of wood per APA recommendations. Orient board joints with the $\frac{1}{8}$ " minimum recessed edge against a square edge of an adjacent panel to yield a consistent nominal gap. Reference **Figure 1: Recessed Edge Detail**.
- Precut boards along square edges of board to fit openings and projections using a power saw. If necessary, route wood on-site by $\frac{1}{8}$ " minimum gap from foam core edge to maintain APA recommended recessed edge.
- Fasten through the panel into the base wall using the appropriate spacing to accommodate the design. Set fasteners no less than $\frac{3}{8}$ " from board edges.
- Corners:
 - For inside corners, it may be necessary to add stud to support fastening required beyond existing framing.
 - For outside corners, extend insulation board so that the edge is flush with the exterior surface of the insulation on the adjacent wall.
- As is common with any wood application, avoid exposure for extended periods of time. If boards should get wet, replace to allow to dry completely before sealing the building envelope. Apply a water-resistive barrier as soon as possible after installation.

FIGURE 1
RECESSED EDGE DETAIL
SCALE: NTS

For Illustration Purposes Only



FASTENING

The required number of fasteners per 4' x 8' EnergyShield panel is based on the greater of the two values provided in **Section 6 of DrJ TER 2502-115: Attachment of EnergyShield Ply Pro and EnergyShield Ply to Wood, Steel, and Concrete** - the applicable fastener spacing table and the wind pressure table. These values are determined by the base wall substrate and must support the cladding weight in accordance with IBC and IRC. Review attachment requirements listed in Section 6 outlining important criteria, including but not limited to:

- Defining board thickness
- Minimum penetration of fasteners into structural membranes/substrate
- Permitted fasteners
- Maximum fastener spacing per subsequent tables

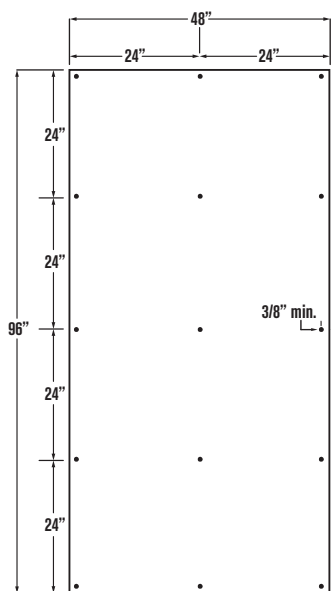
Table 1 offers a quick reference to locate the relevant tables in the report for the proposed assembly. At a minimum, EnergyShield products must be installed to resist positive and negative wind pressures exerted on a building per location and height. See **Figure 2** for examples of Standard Fastening Patterns.

TABLE 1: REFERENCE IN DRJ TER 2502-115

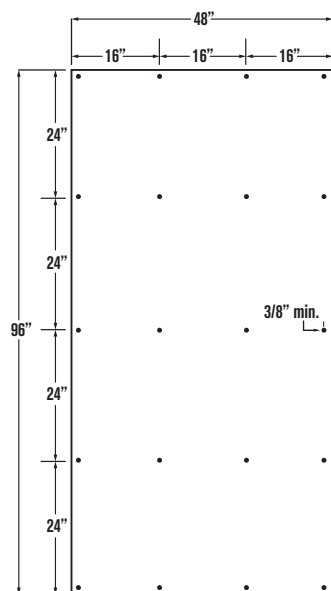
BASE WALL	REFERENCE	FASTENER SPACING	PRESSURES
WOOD STUD	Section 6.1	Table 1	Table 2
STEEL STUD	Section 6.2	Table 3 Table 4 Table 5	Table 6
CONCRETE	Section 6.3	Table 7	Table 8
CMU	Section 6.4	Table 9	Table 10

Standard Fastening Patterns

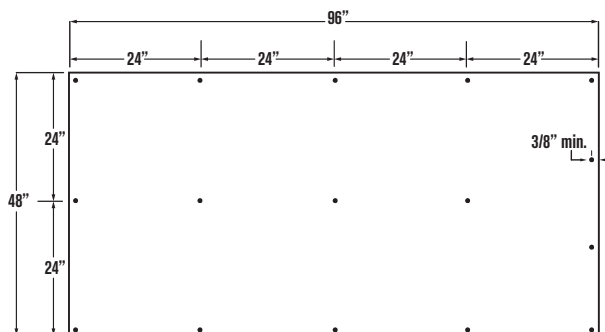
Figure 2A: 24-Inch Vertical Spacing



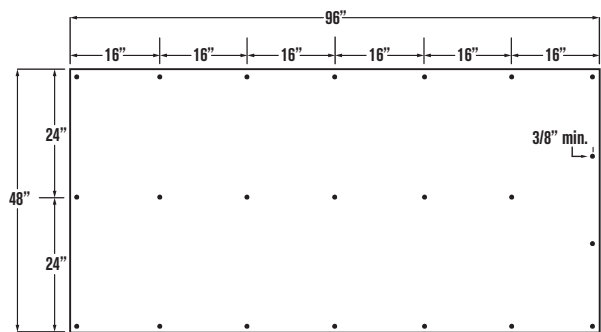
15 FASTENERS PER BOARD



20 FASTENERS PER BOARD



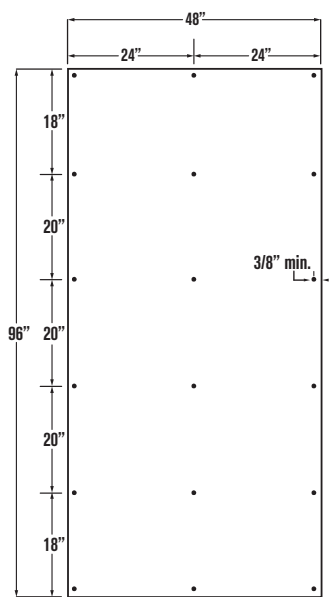
15 FASTENERS PER BOARD



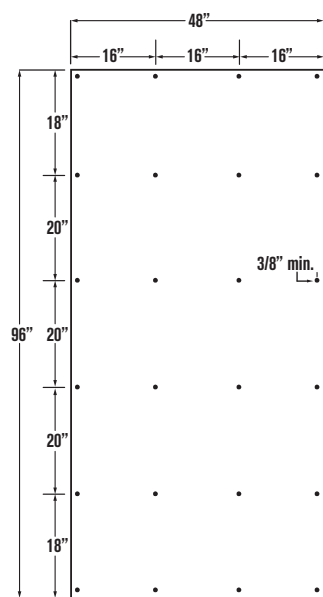
21 FASTENERS PER BOARD

Standard Fastening Patterns

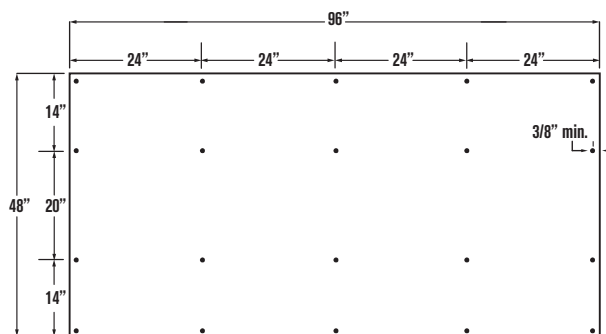
Figure 2B: 20-Inch Vertical Spacing



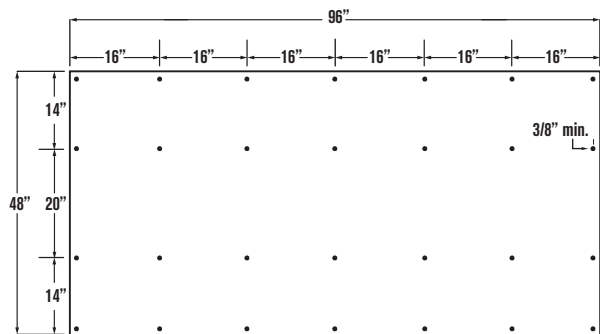
18 FASTENERS PER BOARD



24 FASTENERS PER BOARD



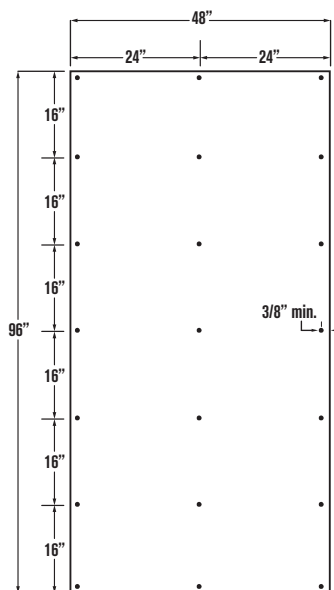
20 FASTENERS PER BOARD



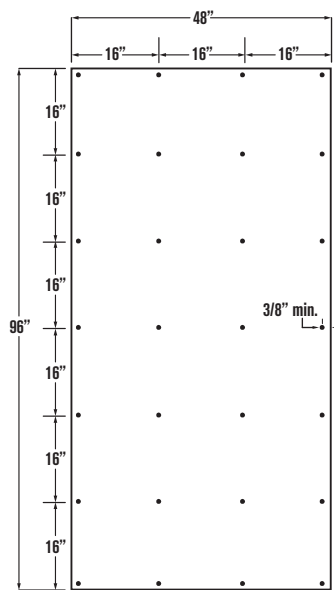
28 FASTENERS PER BOARD

Standard Fastening Patterns

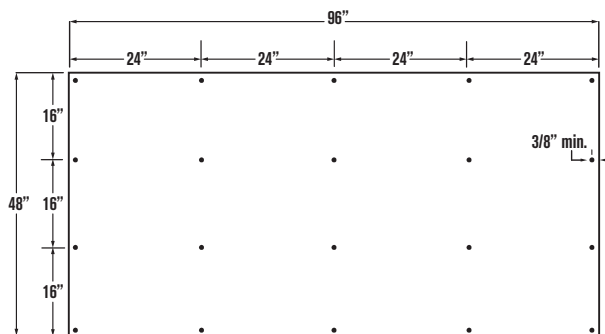
Figure 2C: 16-Inch Vertical Spacing



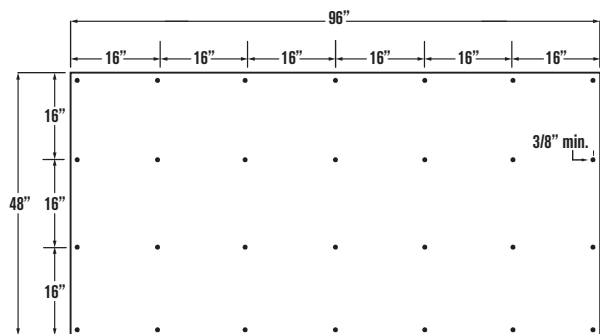
21 FASTENERS PER BOARD



28 FASTENERS PER BOARD



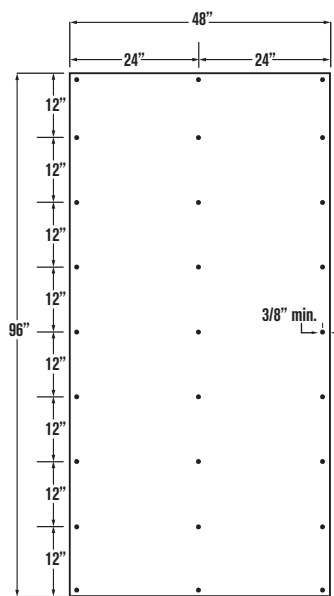
20 FASTENERS PER BOARD



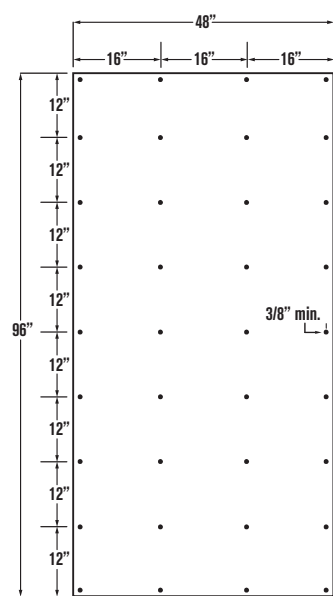
28 FASTENERS PER BOARD

Standard Fastening Patterns

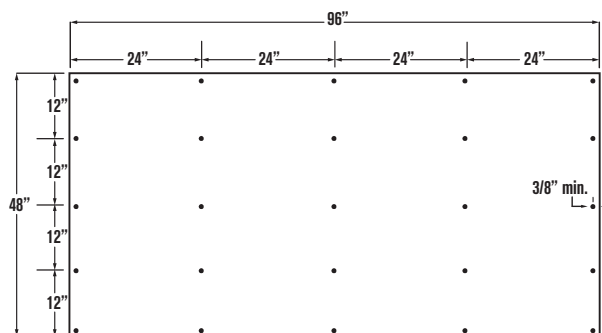
Figure 2D: 12-Inch Vertical Spacing



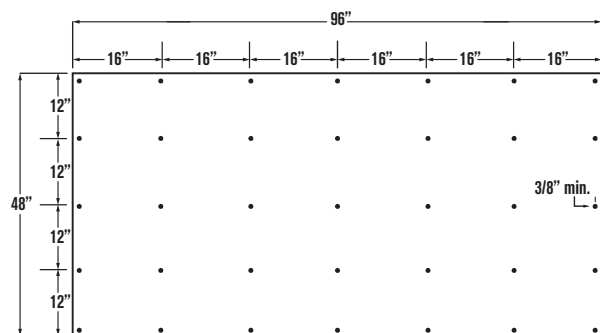
27 FASTENERS PER BOARD



36 FASTENERS PER BOARD



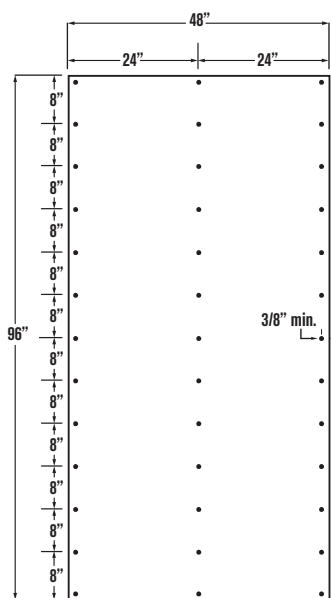
25 FASTENERS PER BOARD



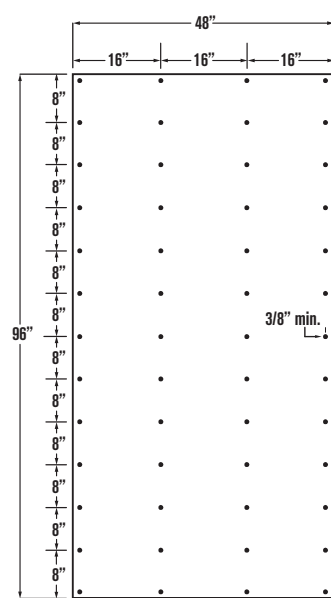
35 FASTENERS PER BOARD

Standard Fastening Patterns

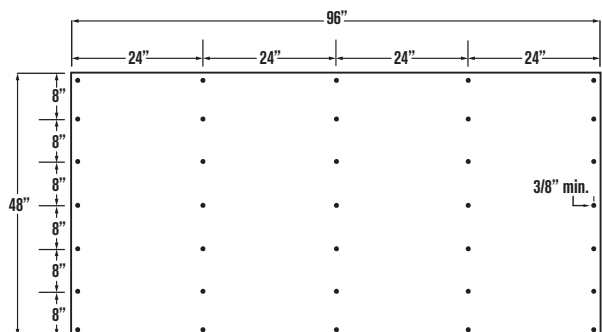
Figure 2E: 8-Inch Vertical Spacing



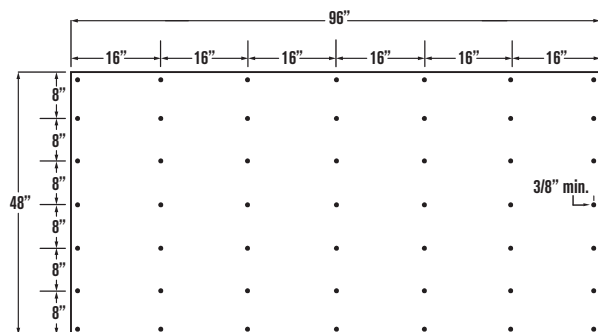
39 FASTENERS PER BOARD



52 FASTENERS PER BOARD



35 FASTENERS PER BOARD



49 FASTENERS PER BOARD

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5. Camp Hill, PA
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6. Phoenix, AZ
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7. Diboll, TX
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8. LaGrange, GA
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