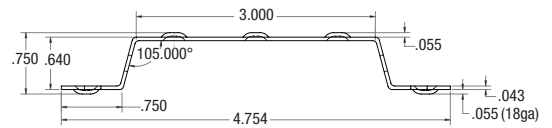
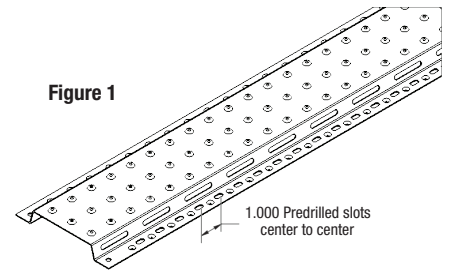
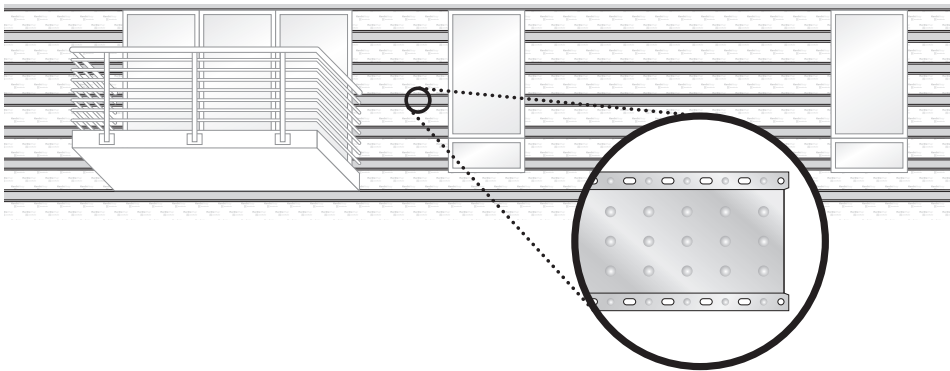


HardieDrainage™ Horizontal Steel Furring with Two-Plane™ Technology

EFFECTIVE MAY 2019

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY.



GENERAL REQUIREMENTS

- These instructions are to be used for the installation of HardieDrainage™ Horizontal Steel Furring only.
- These instructions apply to installation on buildings in the continental US and Hawaii. Consult JHInsite.com for information regarding use of HardieDrainage Horizontal Steel Furring in other jurisdictions.
- HardieDrainage Horizontal Steel Furring can be installed over wood sheathing, gypsum, and up to 4" of foam and must be attached to braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c.
- Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing furring
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at www.jamehardiepros.com or JHInsite.com.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product(s) in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.jamehardiepros.com or JHInsite.com.
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet.

SPECIFICATIONS

- 18 gauge G90 galvanized steel, grade 33
- Dimensions: 4.754" (3" face) wide x 0.75" thick x 120" long (figure 1)
- ASTM E2273 drainage efficiency >90%
- The furring channel is installed horizontally and may be spaced up to 24" on-center (Contact JHInsite.com for engineered furring attachment solutions)
- Noncombustible furring for exterior walls



¹For additional information on HardieWrap™ Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com





GENERAL REQUIREMENTS

- Position furring to accommodate James Hardie® products ground and solid surface clearance requirements (Figure 2 and 3).

Figure 2

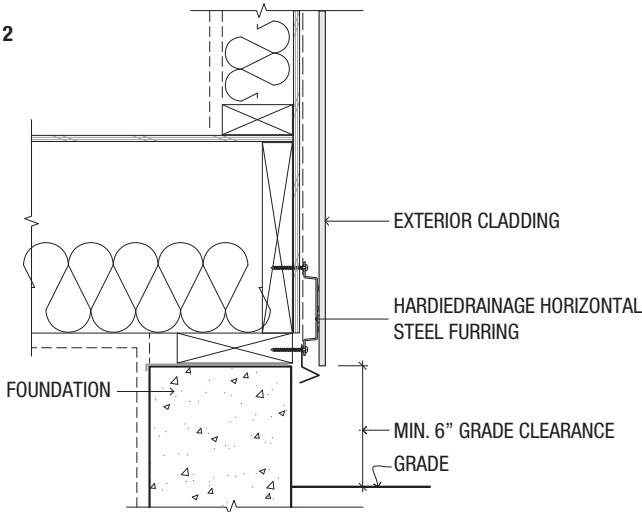
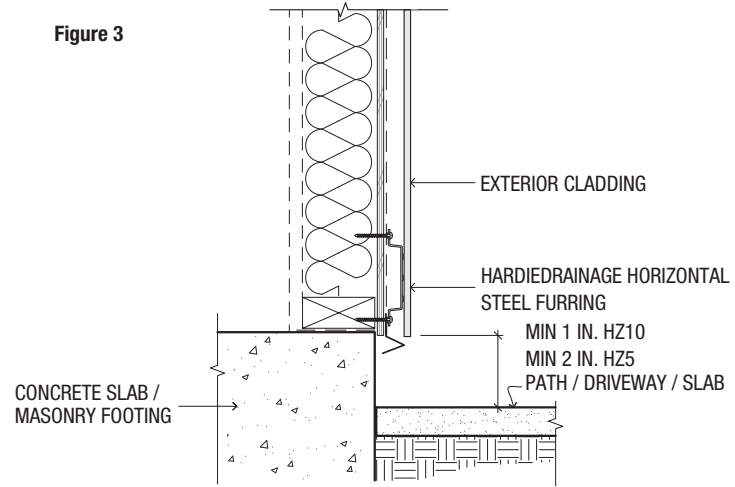


Figure 3



FASTENER REQUIREMENTS FOR HORIZONTAL STEEL FURRING

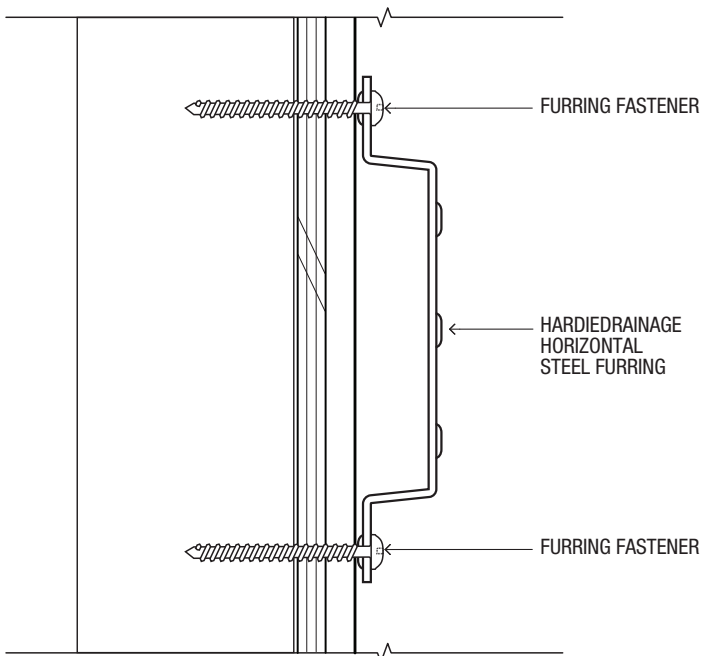
- Please complete a technical service request at jhinsite.com for the fastener specifications that meet your wind load design criteria.
- Furring must be fastened with 2 screws into each stud (figure 4).
- Screw fastener depths:
 - Wood studs: Minimum 1.25 in. into the underlying wood stud
 - Steel studs: Minimum 3 thread lengths from the back side of steel stud

GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products.

Figure 4





INSTALLATION

Walls

- Install HardieDrainage Horizontal Steel Furring horizontally, spaced a maximum of 24 in O.C. (do not install vertically).
- Furring butt joints shall break over a stud. Fasten both ends into stud (Figure 5).
- Bridging of floors with James Hardie siding products are not allowed. Horizontal joints shall be created between floors. Install Horizontal Steel Furring at each floor intersection as shown (figure 6).

Figure 5

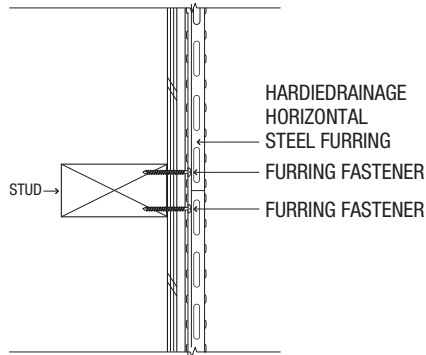
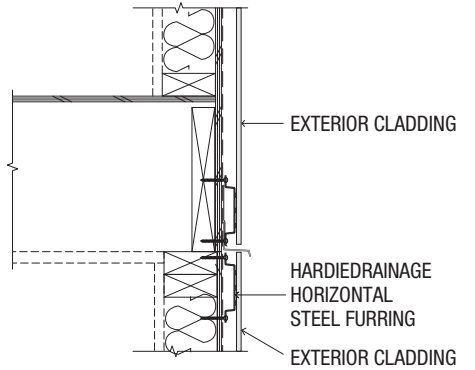


Figure 6



Corners

- Butt furring together at inside corners (figure 7).
- Butt furring together at outside corners (figure 8).
 - Furring can be extended out from the corner fastener attachment a maximum of 8 in (figure 9).

Figure 7

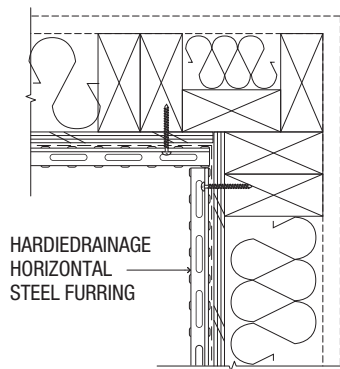


Figure 8

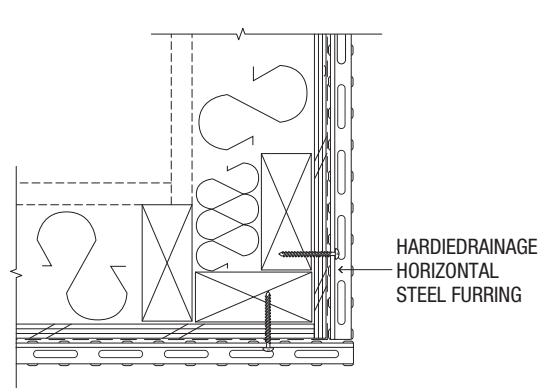
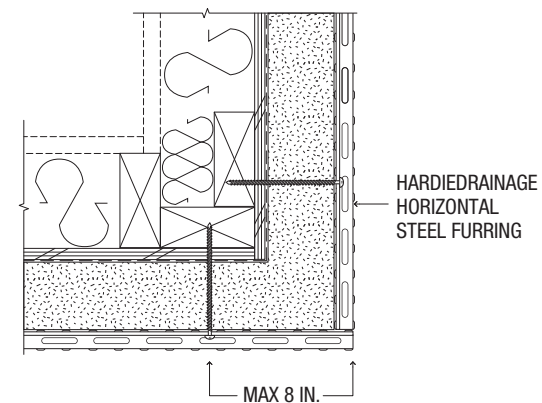


Figure 9





Windows/Doors

- Install furring at the top (figure 10) and bottom (figure 11) of all windows and at the top of doors
- Butt furring into window/door jamb (Figure 12)
Note: additional steps may be needed when adding trim and or when penetration flange does not cover width of furring & cladding.

Figure 10

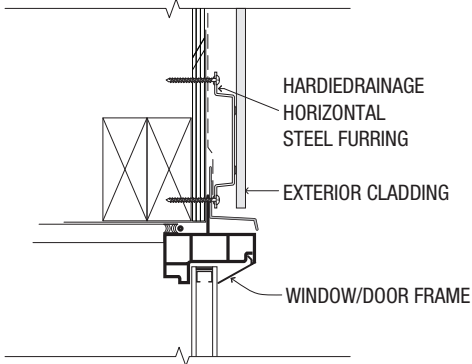


Figure 11

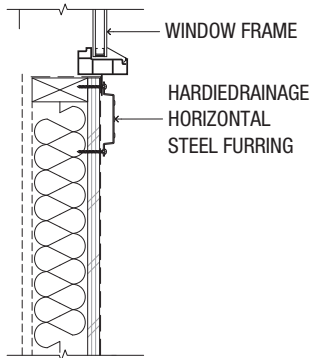


Figure 12

