

## Installing LP® SmartSide® Trim and Lap Siding on Concrete or Masonry Walls over Furring Strips ( $V_{ult}$ Wind Speeds)

This Technical Note is an addendum to the LP® SmartSide® Trim and Fascia, and LP® SmartSide® Lap siding Application Instructions (“Instructions”). It is intended to provide an alternative fastening option for LP SmartSide trim and lap siding on concrete or masonry walls over furring strips. The Instructions remain effective except as may be modified by this Note. Refer to the Instructions for all other aspects of product installation.

### **Trim and lap siding may be installed on concrete or masonry walls over furring strips:**

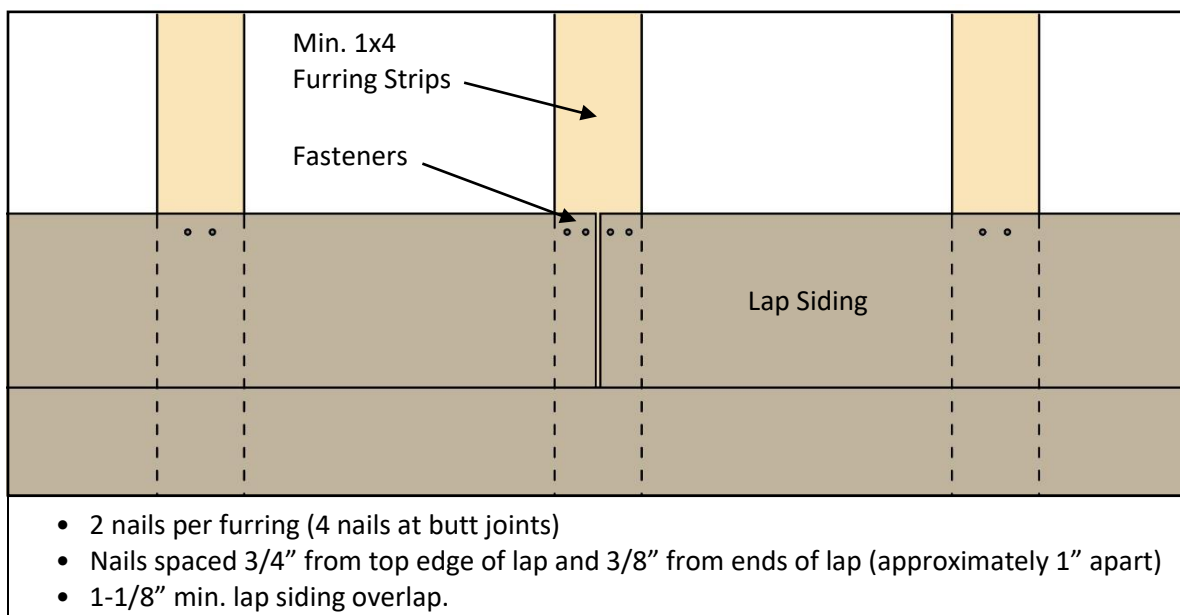
- Trim and lap siding must be installed over a minimum 1x4 nominal size Southern Pine furring strips with a specific gravity greater than or equal to 0.55.
  - Install furring strips no more than 16”o.c. in wind speed areas less than or equal to 200 MPH<sup>1</sup>
- Siding shall be installed to safely support all loads, including wind loads, of the locally adopted building codes. The installation of siding shall result in a system that provides a load path that meets the requirements for the transfer of loads from their point of origin through the load-resisting elements to the structure. The mechanical connection of the furring strip to the concrete or masonry structure is the responsibility of a design professional. LP assumes no liability for any loss or damage caused by the design of the mechanical connection of the furring strip to the concrete or masonry structure and is expressly released by the purchaser or owner from any such loss or liability.
- Minimum Fastener Type:
  - Corrosion Resistant – Hot Dipped Galvanized or equal (ASTM A153)<sup>2</sup>
  - Ring Shank<sup>3</sup>
  - Shank diameter = 0.120 inch
  - Head diameter = 0.270 inch
  - Length = fastener shall fully penetrate a minimum 1/2 inch into nailable furring

**Caution:** fastener shall not bottom out on masonry wall leaving the fastener head less than flush with the face of trim or siding.

- The IRC and Florida Residential Code require a water-resistant barrier be used on all exterior walls, except over concrete or masonry walls per Exception 1 in Section R703.1.1 of both Codes. LP always requires the use of a WRB behind LP® SmartSide® products. LP has no responsibility for any damage arising from a failure to use a WRB.

## Lap Siding

- Limitations:
  - For use with Strand substrate lap (all widths) and/or Fiber substrate lap (up to 8 inches wide only)
  - Excluding Cedar Shake Fiber Lap, Bold Profiles Fiber Lap, Self-Aligning Fiber Lap, and SmartLock™ Strand Lap
- Fastening Requirements:
  - Place fasteners 3/4 inch from top edge of lap siding
  - Increase minimum lap siding overlap to 1-1/8 inch
  - Blind nail two fasteners per furring strip (**every 16" o.c.**)



## Trim

- Limitations:
  - In Hurricane-Prone Regions or locations where negative wind loads are a concern, box or common nails should be used.
    - Trim nails may be used in Non-Hurricane-Prone Regions with the following cautions: Do not overdrive or counter sink the fastener, nail flush with the surface of trim. Detachment of trim is not covered by the LP® SmartSide® limited warranty whether common, box, or trim nails are used.
- Fastening Requirements:
  - Two fasteners spaced a maximum of every 24 inches o.c. along the length of the trim, or two fasteners at both ends with additional fasteners spaced a maximum of every 12 inches o.c. along alternating edges the length of the trim.
  - Trim under 7 inches wide use a minimum of 2 nails per width. Trim 7 to 12 inches wide use a minimum of 3 nails per width. Trim over 12 inches wide use a minimum of 4 nails per width.

<sup>1</sup> Wind speed is Ultimate Design Wind Speed/ Zone 5/ 10 ft<sup>2</sup>/ 30 foot height.

<sup>2</sup> Corrosion resistance and capable of preventing rust, stain and deterioration of the fasteners under normal outdoor environmental conditions for a period of no less than 50 years. For further information or guidance, consult your nail supplier/manufacturer.

<sup>3</sup> Ring shank nails shall be capable of the performance specified in Table 1A Ring-Shank Nail Withdrawal Loads of APA publication TT-109, *Wood Structural Panels Used as Nailable Sheathing* when tested in accordance with ASTM D 1761, *Standard Test Method for Mechanical Fasteners in Wood* and NDS-2015. For further information or guidance, consult your nail supplier/manufacturer.