

## NAILSTRIP NO. 8001

**SUBJECT: SUBSTRATE PREPARATION AND INSTALLATION**

**DATE: APRIL 2011 (REVISED JANUARY 2019)**

R-Shield® Nailstrip is an ideal insulation and nailable surface when applied over structural walls such as poured concrete, concrete block, brick, wood and steel framing.

R-Shield Nailstrip must be applied to a solid sound structural substrate. Prior to installing R-Shield Nailstrip, examine all areas of the substrate to make certain that adequate mechanical attachment can be achieved. Areas that are not adequately strong must be repaired or replaced. The substrate must be free of all contaminants that may cause damage to R-Shield Nailstrip or inhibit attachment. The substrate surface additionally must be flat. Remove bumps, protrusions, and irregularities that may interfere with installation. Provide framing as needed around fixtures, pipes, services boxes, etc. as required.

The substrate should be plumb and square. If the substrate is out of square, provide square and plumb framing members at the boundary of the substrate prior to installation of R-Shield Nailstrip.

If the substrate is not plumb determine the out of plane areas prior to installation and use the following general guidelines:

Use Loctite® PL® 300 VOC Foamboard or similar polystyrene compatible adhesive to apply 3" diameter pillows of adhesive to the substrate on 12" centers vertically and horizontally.

Note: Apply the adhesive thicker over indented areas and thinner in protruding areas.

Apply the R-Shield Nailstrip to the substrate and press firmly against the adhesive.

Use a 6' flat edge board or similar to tamp the entire face of the R-Shield Nailstrip until it is plumb and square.

Apply R-Shield fasteners in sufficient number to temporarily hold the R-Shield Nailstrip in place without movement.

After the adhesive has sufficiently cured, install R-Shield fasteners per the specified installation pattern.

Note: Structural substrates that are severely out of plumb may require longer screws at the "kicked in" areas.

Once installation of the R-Shield Nailstrip is complete, attach appropriate cladding materials per the cladding manufacturers recommended installation guidelines.

## NAILSTRIP NO. 8002

**SUBJECT: RAINSCREENS**

**DATE: SEPTEMBER 2011 (REVISED JANUARY 2019)**

Rainscreens are a building science design strategy for exterior walls that incorporate a number of elements to reduce the potential for water damage. Rainscreens are most commonly used in regions that have significant rainfall. The key elements of a rainscreen are:

1. Exterior Cladding
2. Air Space
3. Drainage Layer
4. Airtight Wall

Rainscreen designs accept that water may penetrate the exterior cladding, but this water is subsequently removed by draining down the drainage layer and exiting out the bottom of the wall assembly. The drainage layer coupled with the air space provides an improved defense to resist potential damage from water to the wall and cladding materials.

R-Shield<sup>®</sup> Nailstrip is ideal for use as part of a Rainscreen design when covered with a weather resistant barrier, furring, and an exterior cladding. Please refer to the attached detail.