Siding and Soffit Installation Guidelines

Product Specification Information:
07 46 16 Longboard® Siding & Soffit
32 35 13 Longboard® Extruded Aluminum Privacy Screens
09 54 23 Longboard® Beam and Baffle Ceiling System
07 00 00 Longboard® Thermally Broken Sub-structure
INTRODUCTION

INSTALLATION GUIDELINES

NOTE: These instructions are prepared for persons experienced in the field of soffit and siding installation and assume a foundational working knowledge of the tools and application process. Longboard is a rear ventilated rain screen (RVRS) cladding system which meets the requirements of Part 9 of the building code, when installed according to these instructions. Typically Longboard® does not require traditional rainscreen, please check with the Authority Having Jurisdiction to verify local rainscreen requirements. It is highly recommended that Longboard be installed by an experienced professional.

This manual must be read in conjunction with project drawings and specifications, applicable building codes, and relevant compliance documents. The details in this manual provide guidance on how to comply with Longboard®’s installation requirements and need to be reviewed by all parties who are responsible for installing Longboard® products on a project. This manual is subject to periodic re-examination and revision. For information on the current status of these documents please check the Longboard® website, www.longboardproducts.com. The reader is responsible for ensuring that they are using the most up-to-date information.

BEST PRACTICES:

• Use appropriate PPE (personal protective equipment). The cutting of metal increases the risk of eye injury and hearing loss. USE EYE AND HEARING PROTECTION.
• Plan your install for best yield/finish appearance.
• With Longboard® woodgrains, understand the repeating pattern to ensure a satisfactory install.
• Do not install over pressure treated material without adequate barrier protection.
• Keep courses straight and level, and in line with adjacent walls. Throughout installation, check the panels’ horizontal alignment every few rows to ensure the siding is installed straight and level on the wall and for panel alignment around corners and above doors and windows.
• Siding is only as straight and stable as its substrate. In re-siding: strapping or removal of original cladding may be necessary. Only install over a flat substrate or a suitable cladding sub-structure.
• A proper amount of care, as with any prefinished product, will result in a premium quality installation and a lifetime of maintenance free enjoyment.

KEEPING IT STRAIGHT AND LEVEL

• Keep in mind, siding is only as straight and stable as what lies under it.
• Throughout installation, check the panels’ horizontal alignment every few rows to make sure the siding is hanging straight and level on the wall. Also check for panel alignment around corner posts and above doors and windows.

ATTENTION

UPON DELIVERY:
Check the delivery is complete and all materials have arrived in good condition. Inspect product prior to installation. Longboard® is not responsible for the installation of blemished or damaged product.
WATER-RESISTIVE BARRIER
Prior to siding, make sure the water-resistive barrier is properly installed according to the manufacturers’ instructions.

IBC Code Reference: “1403.2 Weather protection. Exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall include flashing, as described in Section 1405.3. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer, as described in Section 1404.2, and a means for draining water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with the International Energy Conservation Code.

Exceptions:
1. A weather-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapters 19 and 21, respectively.
2. Compliance with the requirements for a means of drainage, and the requirements of Sections 1404.2 and 1405.3, shall not be required for an exterior wall envelope that has been demonstrated through testing to resist wind-driven rain, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions...”

FLASHING
IBC Code Reference: “1405.3 Flashing. Flashing shall be installed in such a manner so as to prevent moisture from entering the wall or to redirect it to the exterior. Flashing shall be installed at the perimeters of exterior door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies and similar projections and at built-in gutters and similar locations where moisture could enter the wall. Flashing with projecting flanges shall be installed on both sides and the ends of copings, under sills and continuously above projecting trim.”
EXPANSION & CONTRACTION

EXPANSION/CONTRACTION & TRIMS:

- Longboard® is aluminum, and will expand and contract ¼" every 24’ in all directions when exposed to a temperature change of 30 degrees C (86 F).
- Lengthwise, each panel MUST terminate into a minimum of one trim.
- Typical trims used are: Starter Strip, J-Track around windows & doors, Corners, Finishing Cap/Finishing Base at the top of walls & underside of windows and Flat Cap/Base or U Cap/Base for expansion trims in the field.
- Install Longboard® 2 ½” Perforated Vent Strip where soffit venting is required, as per local code requirements.
- Longboard® perforated vent provides 84 inches of Net Vent Area per 12’ stock length. 21 lineal ft. = 1 sq. ft. of NVA.
- It is imperative that Longboard® panels are cut to fit to the midpoint coverage of trim pieces. This will allow for both expansion and contraction without bottoming out or contracting out. Do not fasten Longboard panels and trims together as this will not allow for free movement.
- Perpendicular to the panels, Longboard® Siding & Soffit must be broken up using an expansion trim (Finishing Cap/Finishing Base or Flat Cap/Base or U Cap/Base) or through-wall flashing at every floor elevation or a maximum of 24’ to accommodate expansion/contraction and floor compression.
- Horizontal/Compression Joints are required for multi-story installations locate joints at floor lines. Joints are flashed minimum ½” (12.7 mm) breaks. Do not caulk.
- Wood framed buildings of three or more floors require a compression joint or through-wall flashing at each floor.
- Steel framed buildings (including reinforced concrete core with LGMF exterior walls) of more than three floors (or 45 feet/14 m) require a compression joint every 25 feet (7.62) m at a floor line.
- Staggered butt-joints are acceptable, with only one butt-joint per row between two trims. Hard fasten each panel through the flange, with a self-tapping screw each side of the butt-joint. This will keep the butt-joint tight while allowing free movement of expansion/contraction via the Quick-Screen™ clips and into the pocket of the trims. Use touch-up pens (light & dark) to paint cut ends of exposed aluminum.
• Cut Longboard® using standard wood cutting tools such as a miter saw & table saw with a carbide blade for non-ferrous metals. 60-80 tooth blades are recommended.
• Cut face up whenever possible: Longboard® is a prefinished material. A reasonable amount of care is critical to obtain the desired results and to prevent marring and scratching.
• All Longboard® Siding and Soffit panels & trims are produced a minimum of 1” longer than the spec’d length, allowing the trimming of taped ends on woodgrain colour installations. **Always cut off taped ends as trims will not cover the unfinished ends.**
• Use touch-up pens (light & dark) to paint cut ends of any visible aluminum.
• Longboard® woodgrains have a repeat pattern every 2”-4’, depending on the species. Longboard® is delivered in boxes of 8 pcs of 6” profile or 12 pcs of 4” profile with sets of two pieces taped together at each end, for a total of 4 or 6 sets. Each set has a “piece A” and a “piece B” (from a wood pattern perspective) where these pieces are created from a different area of the pattern and are distinct from each other, however each will have the same repeat distance. To eliminate grain mirroring it is recommended to install a “piece A” then a “piece B” then an offset “piece A” then an offset “piece B” and continue mixing the pieces up the wall.
WIND LOADS

The structural analysis reviewed the strength and stiffness of the Fastening Clip, wood screw and Longboard Siding and Starter Strip using a combination of codified equations and rational engineering analysis. Calculations were performed in accordance with the Florida Building Code 2010 (FBC), including all relevant standards referenced therein. An unfactored dead load of 1.5 pounds per square foot was assumed for the cladding weight, and the cladding was subjected to factored wind loads ranging from 20 pounds per square foot to 70 pounds per square foot. The wind loads listed in this report refer to the three second gust basic wind speed at an elevation of 10 m above ground level for Exposure C.

Wind loads are factored and assume that all height, directionality, exposure, topographic, pressure and gust effect coefficients have been applied in accordance with ASCE 7-10 Minimum Design Loads for Buildings and Other Structures as referenced in the FBC. Calculations included seismic loads, but these did not govern the clip spacing due to the low cladding mass. Table 1 presents the results of the structural analysis, organized into a table of maximum allowable Fastener Clip spacing for various factored wind loads.

Quick-Screen Clip Spacing

Table 1: Maximum Tributary Area and Clip Spacing for Longboard Fastening Clip

<table>
<thead>
<tr>
<th>Maximum Factored Wind Load (psf)</th>
<th>4 in. Wide Longboard Siding</th>
<th>6 in. Wide Longboard Siding</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum Horizontal Spacing (in.)</td>
<td>Maximum Vertical Spacing (in.)</td>
</tr>
<tr>
<td>Sheathed Wood Frame Wall w/ 1.5 In. Lg. #8 Pan Washer Head Wood Screws</td>
<td>245</td>
<td>61</td>
</tr>
<tr>
<td>+/- 20</td>
<td>214</td>
<td>53</td>
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<tr>
<td>+/- 30</td>
<td>194</td>
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<td>+/- 50</td>
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<td>+/- 60</td>
<td>149</td>
<td>37</td>
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<tr>
<td>+/- 70</td>
<td>128</td>
<td>32</td>
</tr>
<tr>
<td>Sheathed Wood Frame Wall w/ 2.0 In. Lg. #8 Pan Washer Head Wood Screws</td>
<td>245</td>
<td>61</td>
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<tr>
<td>+/- 20</td>
<td>214</td>
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<td>+/- 30</td>
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<td>+/- 50</td>
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<td>+/- 60</td>
<td>149</td>
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<td>+/- 70</td>
<td>128</td>
<td>32</td>
</tr>
</tbody>
</table>

Table 1 Cont’d: Maximum Tributary Area and Clip Spacing for Longboard Fastening Clip

<table>
<thead>
<tr>
<th>Maximum Factored Wind Load (psf)</th>
<th>4 in. Wide Longboard Siding</th>
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<tbody>
<tr>
<td></td>
<td>Maximum Horizontal Spacing (in.)</td>
<td>Maximum Vertical Spacing (in.)</td>
</tr>
<tr>
<td>Sheathed 16ga, 33 kil Steel Stud Wall w/ #8 Pan Head Self-Drilling Screws</td>
<td>245</td>
<td>61</td>
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<tr>
<td>+/- 20</td>
<td>214</td>
<td>53</td>
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<td>+/- 30</td>
<td>194</td>
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<td>+/- 70</td>
<td>128</td>
<td>32</td>
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<tr>
<td>Sheathed 16ga, 50 kil Steel Stud Wall w/ #8 Pan Head Self-Drilling Screws</td>
<td>245</td>
<td>61</td>
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<td>+/- 20</td>
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<td>37</td>
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<tr>
<td>+/- 70</td>
<td>128</td>
<td>32</td>
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</tbody>
</table>

* Wind loads are three second gust basic wind speed based, and assume all height, directionality, exposure, topographic, pressure and gust effect coefficients have been applied.
* 1 = Spacing is from clip center to center.
* 2 = Maximum vertical spacing limited by siding vertical dimension.
* 3 = An unfactored dead load of 1.5 psf was assumed for the cladding.
* 4 = If fastening to every second stud, the attachment stud shall be staggered between adjacent runs of siding.
* 5 = The Starter Clip shall be fastened at 16 in. O.C. with #8 self-drilling screws into 16 ga. 33 kil steel studs or 1.5 in. long #8 wood screws into wood studs (min. 2.5 F grade). The Starter Clip shall be fastened at 22 in. O.C. with #8 self-drilling screws into 16 ga. 33 kil steel studs or 2.0 in. long #8 wood screws into wood studs (min. 2.5 F grade).
Table 2 presents the maximum horizontal fastener spacing for the Starter Strip for various wind loads, siding widths and substrate wall and fastener combinations. In this table, the “Screw Location in Strip” column refers to whether the screw shall be fastened through the thin section at the edge of the strip (“end”) or through the middle of the strip, 24 mm from its end (“middle”).

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<tr>
<td>Wood Stud w/ #8 - 1.5in lg. screws</td>
<td>20</td>
<td>16</td>
<td>4</td>
<td>End</td>
<td>16</td>
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<tr>
<td>Wood Stud w/ #8 - 2.0in lg. screws</td>
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<td>32</td>
<td>4</td>
<td>End</td>
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<tr>
<td>18ga 33ksi steel studs w/ #8 screws</td>
<td>20</td>
<td>16</td>
<td>4</td>
<td>End</td>
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<td>16ga 50ksi steel studs w/ #8 screws</td>
<td>20</td>
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<td>4</td>
<td>End</td>
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DRAWING #: SECTION TITLE: 2 1/2" VENT SOFFIT - PARALLEL
- Longboard 6" V-Groove Siding Panel
- OSB or Plywood Sheathing
- Wood Framing
- Shown with #8 Pan-Head Screws of Appropriate Length
WOOD FRAMING

#8 PAN-HEAD SCREW

QUICK-SCREEN CLIP

FURRING STRIPS @32" O.C. SECURELY FASTENED TO STUDS OR SHEATHING

VAPOUR BARRIER

EXTERIOR SHEATHING

INSULATION WHERE REQUIRED

LONGBOARD® 6" V-GROOVE PANEL

HARD FASTEN BESIDE QUICK-SCREEN CLIPS INSTEAD OF THROUGH FOR ALL WIDE STARTER STRIPS

WIDE STARTER STRIP

SECTION

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DRAWING #: D-055
DRAWING TITLE: V - GROOVE PANEL
VERTICAL INSTALLATION
FASTENING

INSTALLING & FASTENING:

- Install trims first, hard fastening with #8 self-drilling corrosion resistant exterior screws (supplied by others) directly through the flange. Use included Quick-Screen™ clips for Starter Strip and Finishing Base or any horizontal trim, to maintain the rear ventilation plane, but still hard fasten for attachment.
- Longboard® panels are installed using Quick-Screen™ clips @ 32” o.c. (standard requirement), included with each siding/soffit order. The clips create the rear ventilation plane and allow for thermal expansion/contraction. Secure tight using appropriate length, #8 corrosion resistant exterior screws (supplied by others) suitable for the application and climate. Screws allow the installer to “back off” the screw and shim tight to address any substrate discrepancies. It is good practice to install one hard fastener at the midpoint of each panel, through the flange, to prevent migration of the cladding.
- 1 Box of 4” V Groove Includes: 135 Clips
- 1 box of 6” V Groove or Channel Includes: 90 Clips
- Each 12’ length of Vent Strip Includes: 5 Clips
- If less than 32” spacing is required, additional clips can be purchased through your dealer.
- Hard fasten any butt-joints (see expansion/contraction).
- Snap in any Finishing Cap, Flat Cap and/or U Cap to complete installation.
PROFILE DETAIL

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DRAWING #: 014

DRAWING TITLE: 6in CHANNEL SIDING & SOFFIT PANEL
PROFILE DETAIL

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DRAWING #: 015
DRAWING TITLE: 4in V-GROOVE SIDING & SOFFIT PANEL
PROFILE DETAIL

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DRAWING #:
007

DRAWING TITLE:
WIDE STARTER STRIP
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DRAWING #: 008
DRAWING TITLE: INSIDE & OUTSIDE CORNER

SCALE: 2:1
DRAWN BY: 
REV. BY: 
LONGBOARD® INSULATING PRODUCTS
PROFILE DETAIL

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DRAWING #: 016
DRAWING TITLE: U-CAP & BASE
PROFILE DETAIL

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For complete installation instructions refer to the appropriate documentation at www.longboardsuppliers.com/installation.
PROFILE DETAIL

These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.longboardproducts.com. You should obtain architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

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DRAWING #: 011
DRAWING TITLE: QUICK SCREEN CLIP
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**FINISHING CAP & FINISHING BASE**
Technical support

info@longboardproducts.com
longboardproducts.com
1.800.604.0343

Product Specification Information:
07 46 16 Longboard® Siding & Soffit
32 35 13 Longboard® Extruded Aluminum Privacy Screens
09 54 23 Longboard® Beam and Baffle Ceiling System
07 00 00 Longboard® Thermally Broken Sub-structure