**General**


- Minimum 6 inch (152 mm) clearance must be maintained between siding and finish grade (ground cover).

- Siding applied adjacent to porches, patios, walks, etc. must have a clearance of at least 1 inch (25 mm) above any surface.

- Minimum 1 inch (25 mm) clearance at intersection with roof line.

- Apply siding in a manner that prevents moisture intrusion and water buildup.

- All wood substrate that is exposed to the weather must be sealed in a manner that prevents moisture intrusion and water build up.
  - Seal ALL exposed cuts of siding and trim. Field spray applied coatings on cuts are not recommended.
  - Sealing can be accomplished by applying a coating or sealant according to the manufacturer’s requirements.
  - Butt joints that are covered with joint molding, sealant or factory prefinished end, are considered sealed from the weather.

- See Alternate Fastening Options for fastening lap siding to SIP, ICF and Steel Frame assemblies.

- **DO NOT USE STAPLES.**

- **SIDING MUST NOT BE IN DIRECT CONTACT WITH MASONRY, CONCRETE, BRICK, STONE, STUCCO OR MORTAR.**

**Storage**

- Store off the ground well supported, on a flat surface, under a roof or separate waterproof covering.

- Keep siding clean and dry. Inspect prior to application.

**Stud Spacing**

- 38 Series Strand Substrate lap may be installed on studs spaced a maximum of 16 inches (406 mm) o.c.

- See Alternate Fastening Options for fastening 38 Series Strand Substrate 6 inch (152 mm) and 8 inch (203 mm) lap on studs spaced a maximum of 24 inches (610 mm) o.c.

- 76 Series Strand Substrate lap may be installed on studs spaced a maximum of 24 inches (610 mm) o.c.

**Moisture**

- Moisture control and moisture vapor control are critical elements of proper housing design. Check your local building codes for application procedures for handling moisture and water vapor in your area.

- When using wet blown cellulose insulation, the insulation must not be in direct contact with the siding and it must be allowed to dry a minimum of 24 hours or longer if specified by the insulation manufacturer.

- As with all wood products, do not apply engineered wood siding to a structure having excessive moisture conditions such as drying concrete, plaster or wet blown cellulose insulation. If such conditions exist, the building should be well ventilated to allow it to dry prior to the application of the siding.

- Siding must not be applied to green or crooked structural framing members. Do not apply siding over rain-soaked or buckled sheathing materials.

- Gutters are recommended for control of roof water run off.

**Secondary Water-Resistant Barrier (WRB)**

- A properly installed water-resistant barrier is required behind siding. Consult your local building code for details.

- The LP SmartSide limited warranty does not expressly or implicitly cover water penetration. LP does not assume responsibility for any water penetration.

**Gaps & Sealants**

- Seal all gaps with a high-quality, non-hardening, paintable sealant meeting ASTM C920, minimum Class 25.

- Follow the sealant manufacturer’s instructions for application.

**Flashing, Windows, Doors & Openings**

- All openings must be properly sealed or flashed in a manner that prevents moisture intrusion or buildup. Several examples that accomplish this are shown on the following pages.
**Nailing Instructions**

- LP SmartSide 38 Series lap siding may be attached directly to framing members spaced a maximum of 16 inches (406 mm) o.c.
- LP SmartSide 76 Series lap siding may be attached directly to framing members spaced a maximum of 24 inches (610 mm) o.c.
- Check your local building codes before starting to install siding to confirm if wood structural panel wall sheathing is required.
- Butt joints should be staggered over successive courses.
- Siding shall be installed with top (blind) nailing, with the nails placed 3/8 inch (10 mm) from either end and a minimum of 3/4 inch (19 mm) from the top edge of the board. Fasteners will be exposed on siding located immediately below window sills, fascia boards, and horizontal trim. Fasteners below window sill shall be spaced a maximum of 8 inch (203 mm) o.c.
- Overlap successive courses of siding a minimum of 1 inch (25 mm).
- Use a minimum (0.113 inch shank diameter), hot-dip galvanized nail.

**TRIM**

- Trim should be thick enough so the lap siding does not extend beyond the face of the trim.
- Trim and fascia must be applied in a manner that will not allow moisture intrusion or water buildup.
- LP® SmartSide® siding is not designed and/or manufactured to be used as trim.
  - LP SmartSide trim and fascia are available in a variety of dimensions.

**Finishing Instructions**

- Seal all exposed surfaces, including all drip edges or where water will hang.
- Apply finish coat as soon as possible or within 180 days of application.
- Follow the coating manufacturer’s application and maintenance instructions.

**Kick-Out Flashing**

- Install kick-out flashing to direct the water into the gutter.
- Install step flashing with minimum 4 inch (102 mm) upper leg.
- Properly integrate flashing with the secondary water-resistant barrier. Use housewrap, flashing tape, Z-flashing, or other items as needed to maintain the counterflashing principle.
- **DO NOT extend the siding or trim into the kick-out flashing or gutter.**
- Maintain a clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of the siding.
- Seal ALL exposed cut edges.

**Application Instructions (cont.)**

**DO NOT USE:**

- Stain.
- Vinyl-based paint (vinyl acetate or PVA).

**SMOOTH FINISH Lap Siding:**

- For best results use satin finish.

**CEDAR TEXTURE Lap Siding:**

- For best results use satin or semi-gloss finish.

**PREFINISHED Lap Siding:**

- Handle prefinished LP SmartSide lap siding with extreme care during storage and application.
- Touch up any damage to finish that may occur during application per the Prefinishers specifications.

**KicK-Out Flashing**

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- Install step flashing with minimum 4 inch (102 mm) upper leg.
- Properly integrate flashing with the secondary water-resistant barrier. Use housewrap, flashing tape, Z-flashing, or other items as needed to maintain the counterflashing principle.
- **DO NOT extend the siding or trim into the kick-out flashing or gutter.**
- Maintain a clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of the siding.
- Seal ALL exposed cut edges.

**Trim**

- Trim should be thick enough so the lap siding does not extend beyond the face of the trim.
- Trim and fascia must be applied in a manner that will not allow moisture intrusion or water buildup.
- LP® SmartSide® siding is not designed and/or manufactured to be used as trim.
  - LP SmartSide trim and fascia are available in a variety of dimensions.

**Finishing Instructions**

- Seal all exposed surfaces, including all drip edges or where water will hang.
- Apply finish coat as soon as possible or within 180 days of application.
- Follow the coating manufacturer’s application and maintenance instructions.

**SmartLock Lap Blind Fastening**

- For best results use a high-quality 100% acrylic latex exterior paint, specially formulated for use on wood and engineered wood substrates is highly recommended; oil paint is acceptable.

**DO NOT USE:**

- Stain.
- Vinyl-based paint (vinyl acetate or PVA).

**SMOOTH FINISH Lap Siding:**

- For best results use satin finish.

**CEDAR TEXTURE Lap Siding:**

- For best results use satin or semi-gloss finish.

**PREFINISHED Lap Siding:**

- Handle prefinished LP SmartSide lap siding with extreme care during storage and application.
- Touch up any damage to finish that may occur during application per the Prefinishers specifications.
• All exposed face nails must be caulked and sealed in a manner that prevents moisture intrusion and water buildup.
• Penetrate structural framing or wood structural panels and structural framing a minimum of 1-1/2 inches (38 mm).
• Nail from the center of the siding toward the ends, or from one end to the other end. NEVER nail from the ends of the siding toward the middle.
• Shim siding at studs as needed, to avoid drawing siding against uneven walls. Do not overdrive nails. Nail head should seat firmly to face of siding but not be overdriven to distort the siding surface.
• For information on fastening LP SmartSide products in high wind speed areas, refer to ICC-ES Report ESR-1301 or APA PR-N124.

**Alternative Fastening Option for Strand Lap Siding over Wood Structural Panels and 24 inch (610 mm) o.c. Stud Spacing**

- Limited to 6 inch (152 mm) and 8 inch (203 mm) wide lap siding.
- Wood structural panels must be a minimum 7/16 Category with an APA Trademark that contains the consensus Standard DOC PS 2.

- 38 Series Strand Substrate lap must be fastened with:
  - Minimum #8 hot dip galvanized tapered head wood screw, spaced a maximum of 12 inches (305 mm) o.c. with 1-1/2 inch (38 mm) screw penetration into stud or...
  - Minimum (0.092 in. shank diameter) hot-dip galvanized ring shank nail, spaced a maximum of 8 inches (203 mm) o.c. with 1-1/2 inch (38 mm) nail penetration into stud.

- 76 Series Strand Substrate lap must be fastened with:
  - Minimum penetration of 3/8 inch (10 mm) beyond the thickness of the nailing flange.
  - Larger screws may be required by the ICF Manufacturer based on the following minimum withdrawal requirements.

  • Minimum withdrawal value of the ICF nailing flange must be 50 lbs. with a maximum 12 inches (305 mm) o.c. screw spacing.
  • Minimum withdrawal value of the ICF nailing flange must be 31 lbs. with a maximum 6 inches (152 mm) o.c. screw spacing.

**Alternative Fastening Options over Corrosion Resistant Steel Stud Framing**

- Minimum withdrawal value of the steel framing must be 50 lbs. Refer to the framing manufacturer’s evaluation report.

- 38 Series Strand Substrate lap must be fastened with:
  - Stud spacing a maximum spacing of 16 inches (406 mm) o.c.
  - Minimum #8 hot-dip galvanized, tapered head, self-drilling screw.
  - Minimum of 5 threads beyond the combined thickness of the siding and steel stud framing.
  - Minimum steel framing thickness of 0.032 inch (8 mm) or 20 gauge.

- 76 Series Strand Substrate lap must be fastened with:
  - Stud spacing a maximum spacing of 24 inches (610 mm) o.c.
  - Minimum #8 hot-dip galvanized, tapered head, self-drilling screw.
  - Minimum of 5 threads beyond the combined thickness of the siding and steel stud framing.
  - Minimum steel framing thickness of 0.032 inch (8 mm) or 20 gauge.

**Insulated Sheathings**

LP SmartSide lap sidings may be installed over low-compression, rigid foam insulation sheathing or exterior gypsum. The following precautions must be followed:

- Adequate bracing of the wall in accordance with the International Building Codes or other ruling building codes is required.

- For rigid foam insulation sheathing up to 1 inch (25 mm) thick, siding may be nailed directly to the foam sheathing unless a drainage plane is required by the local building code. Nail length must be increased to ensure a minimum 1-1/2 inch (38 mm) fastener penetration into the structural framing.

- For rigid foam insulation sheathing greater than 1 inch (25 mm), a minimum 1-1/2 inches (38 mm) thick by 3-1/2 inches (89 mm) wide vertical strap or furring strip must be installed over the...
Overlap, Clearance & Nailing Space

Butt Joints

Overlap, Clearance & Nailing Space

Butt Joints

- Butt joints must occur over studs.
- A minimum 3/16 inch (5 mm) gap is required at ALL butt joints.
- If joint caulking option is selected, seal all gaps at butt joints with a high-quality exterior sealant meeting the ASTM C920, minimum Class 25 sealant.
- If joint moulding option is selected, add the thickness of the web to the gap allowing a net 3/16 inch (5 mm) space for expansion.
- If siding is prefinished, gap does not require sealant or joint moulding when backed with minimum 4 inch (102 mm) wide flashing and the ends of the siding are factory finished.
Over Openings

Ensure complete paint coverage of the drip edge
Flash, shim, & gap 3/8"

Alternate Butt Joint Treatments

Joint Moulding
Gap 3/16", plus thickness of joint moulding web

Caulked Butt Joint
Gap 3/16" and seal

Vapor Retarder
if required by code

Water-Resistant Barrier

Inside Corner

gap 3/16" and seal

Outside Corner

gap 3/16" and seal

Figure 3A
Figure 3B
Figure 3C
Figure 3
Figure 3E
Figure 3D