LP SmartSide®
TRIM & SIDING

**STRAND SUBSTRATE 38, 76 AND 190 SERIES
PRIMED PANEL SIDING
INCLUDING SILVERTECH & SMARTFINISH**

General

- At the time of manufacture, siding meets or exceeds the performance standards set forth in ICC-ES AC321 and has achieved code recognition under ESR-1301, CCMC 11826-L, APA recognition under PR-N124, and HUD recognition under HUD-MR# 1318c. For copies of Product Approvals go online at https://lpcorp.com/resources/product-literature/ or call LP Customer Support at 800-648-6893.

- Strand Substrate panel siding with SilverTech or SmartFinish is specifically for sheds and other outdoor structures where the interior wall cavities will remain permanently exposed.

- Minimum 6 inch 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 above any surface.

- Minimum 1 inch 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.

- All exposed wood substrate must be sealed in a manner that prevents moisture intrusion and water buildup.

- LP does not recommend LP SmartSide Panel for use in ICF assemblies. If used, LP will not warrant for Buckling and Shrinkage. However, balance of warranty does remain intact.

- Use nails to fasten LP SmartSide panel siding to structural framing. The use of alternate fasteners such as staples is permissible only when allowed by I-Codes and where the size, embedment, placement, and number of alternate fasteners is designed by a licensed design professional and approved by local building official. The use of alternate fasteners, however, is not recommended and LP will not warrant any damage or performance failures to the extent caused by using any alternate fasteners.

- 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

- Strand Substrate 38 and 76 Series panel siding must be installed with the long dimension vertially on studs spaced max. 16 inch o.c. When installing on 24 inch o.c. framing, 190 Series panel siding is required.

Moisture

- Moisture control and water 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-Resistive Barrier (WRB)

- LP strongly recommends the use of a secondary water-resistive barrier behind all LP SmartSide siding. A properly installed WRB provides a second line of defense to incidental moisture behind the siding.

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

- Sheds and other accessory structures that are not heated or cooled do not require a secondary WRB if exempt by applicable building codes.

Gaps & Sealants

- Seal all gaps with a high-quality, non-hardening, paintable sealant. Follow the sealant manufacturer's instructions for application.

- Use an exterior-quality, non-hardening, paintable sealant. Use Class 25 or higher exterior sealant meeting the ASTM C920 Standard for Specification for Elastomeric Joint Sealants. 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.

Kick-Out Flashing

• Install kick-out flashing to direct the water into the gutter

• Install step flashing with minimum 4 inch upper leg

• Properly integrate flashing with the secondary water-resistive 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

• Prime and paint ALL exposed cut edges

LP Siding

Min. 1" clearance between trim and roofing

Clean rain gutter

Do not run trim or siding inside the kick out flashing
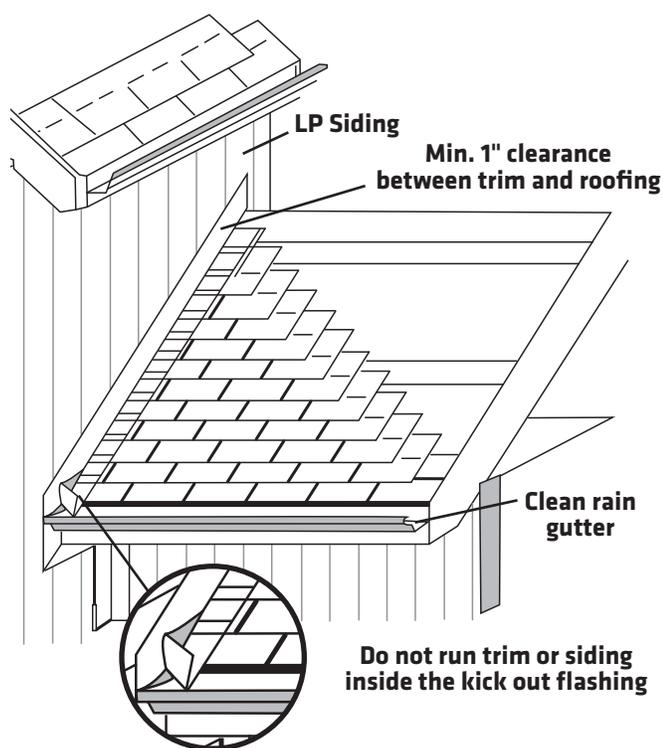
Trim

Trim should be thick enough so the 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 or fascia. LP SmartSide trim and fascia are available in a variety of dimensions.

Finishing Instructions

• **Prime and paint 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.

• High-quality acrylic latex paint, specially formulated for use on wood and engineered wood substrates, is highly recommended. Semi-gloss or satin finish oil or alkyd paints are acceptable. For flat alkyd paint, please check with the coating manufacturer for their recommendations for use on composite wood siding.

• Follow the coating manufacturer's application and maintenance instructions.

DO NOT USE

• Stain.

• Vinyl-based paint (like vinyl acetate, or PVA).

HANDLE PREFINISHED LP SMARTSIDE PRODUCTS WITH EXTREME CARE DURING STORAGE AND APPLICATION. TOUCH UP ANY DAMAGE TO THE FINISH THAT MAY OCCUR DURING APPLICATION PER PREFINISHERS SPECIFICATIONS.

Nailing Instructions

• In braced wall assemblies, use minimum (0.113 inch shank diameter) hot-dipped galvanized nails for 38 and 76 Series panels and minimum (0.131 inch shank diameter) for 190 Series panels. Do not use electroplated fasteners. Refer to your local building code to verify the minimum allowable fastener size.

• Penetrate structural framing or wood structural panels and structural framing a minimum of 1-1/2 inches.

• For 38 Series panels, double nailing procedure meets wall bracing requirements and 5/16 inch shear wall design values.

1" from edge

Alignment bead

1/8" gap

Figure 1   **Double row of nails**
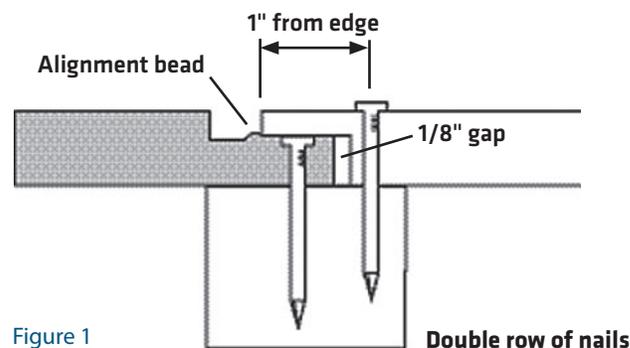
• For 76 and 190 Series panels, single nailing meets wall bracing requirements. To meet the equivalent 3/8 inch shear wall design values, double nailing procedures must be used. It may be necessary to angle drive the second nail in order to penetrate the framing. Seal nails driven below the surface.

3/8" from edge

Alignment bead

1/8" gap

Nail penetration min. 1-1/2"

Figure 2   **Single row of nails**
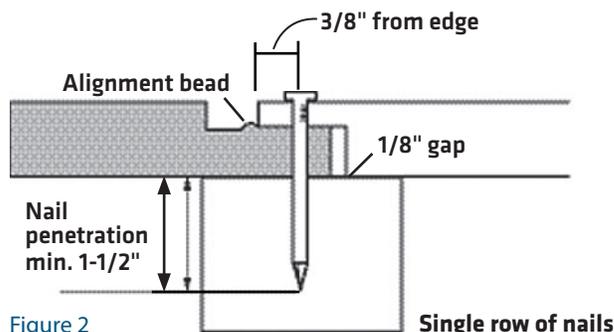
- Shear values for panels applied directly to studs shall be no greater than noted in Table 1 of the ICC-ES Report ESR-1301 or Table 1 of APA PR-N124.
- **Not warranted for application on ICF assemblies.**
- 38 and 76 Series panels must be installed on 16 inch o.c. framing only. When installing on 24 inch o.c. framing, 190 Series panels are required.
- Backside of panel must not come in contact with masonry or concrete foundation.
- Do not force siding into place. Maintain the illustrated 1/8 inch gap behind the joint to allow for expansion while the panel equilibrates with the local environment.
- DO NOT INSTALL OVER ALIGNMENT BEAD. Install panels in light contact to the edge of alignment bead. (see Figure 1 and Figure 2)
- Climb cut the surface of the siding such that the rotation of the blade cuts downward on the primed or prefinished surface.
- Where siding butts window trim, door casings and masonry, etc. leave a 3/16 inch gap and seal.

Insulated Sheathings

LP SmartSide Sidings may be installed over low-compression rigid foam or exterior gypsum. The following precautions must be followed:

a) Adequate bracing of the wall in accordance with the International Codes or other ruling building code is required.

b) For rigid foam 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.

c) For rigid foam sheathing greater than 1 inch (25 mm), a minmum 1-1/2 inch (38 mm) thick by 3-1/2 inch (89 mm) wide vertical strapping or furring strip must be installed over the sheathing to provide a solid, level nailing base for the siding. The strapping must be securely fastened to structural framing spaced no greater than 16 inches o.c. (406 mm) with a minimum nail penetration of 1-1/2 inches (38 mm) and a maximum nail spacing no greater than the width of the siding.

Louisiana-Pacific Corporation will assume no responsibility for any damage or condition arising from the use of rigid foam or exterior gypsum.


12" max. field nailing
6" max. perimeter nailing
6" max. perimeter nailing
6" min. ground clearance
Do not let panel contact masonry (see Figure 7A and 7B)
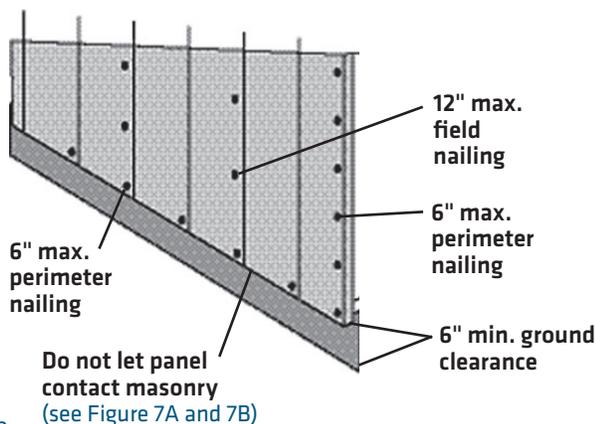
Figure 3

CONDITION	CORRECTION
Snug	OK
Flush	OK
Visible fiber	Paint
Countersunk 1/16"-1/8"	Apply sealant
Countersunk more than 1/8"	Apply sealant and re-nail

1 IN. ROOF & CHIMNEY CLEARANCE

Trim
4" min. vertical flashing
1" min. clearance from roofing
Prime and paint bottom drip edges
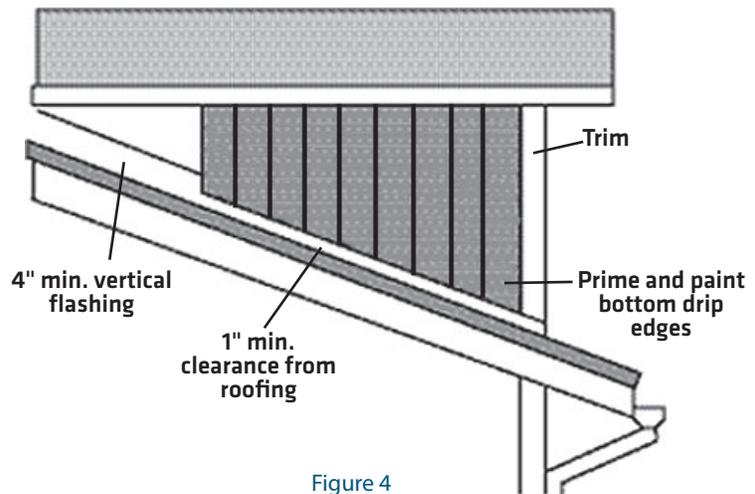
Figure 4

LP SMARTSIDE PANEL SIDING JOINT DETAILS

HORIZONTAL WALL JOINTS

BUTT & FLASH

Siding
3/8" min. gap
Blocking
Sloped flashing with 4" vertical leg

Figure 5A

LAP

Siding
Blocking
1" min. overlap
Lap top panel over bottom panel
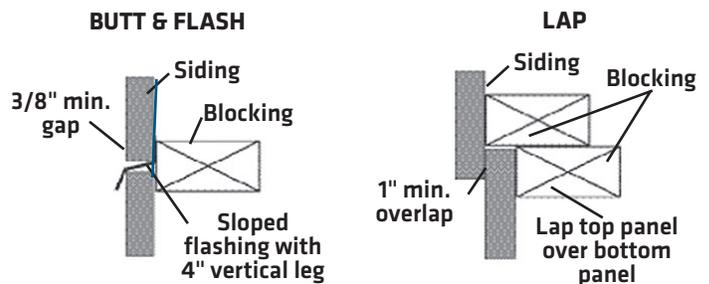
Figure 5B

LAPPED HORIZONTAL WALL JOINT

Siding
Framing (band joist, truss chord, etc.)
Wall Framing
1" min. overlap
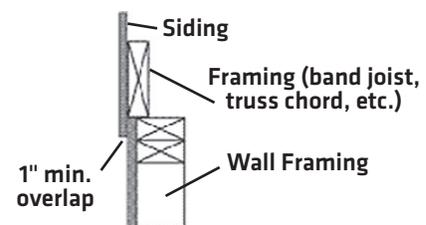
Figure 5C

Panel Siding Joint Details (CONT.)

HORIZONTAL BELTLINE JOINTS

For multi-story buildings, make provisions at horizontal joints for "setting" shrinkage of framing, especially when applying


Panel siding
3/8" gap
Sloped flashing with 4" vertical leg

BAND BOARD over PANEL FILLER

2"x Band board
Filler Board
Panel siding
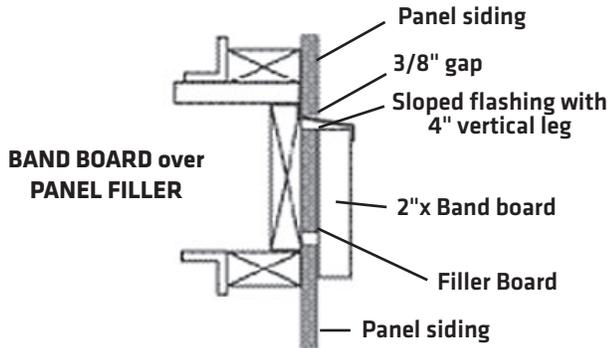
Figure 6

Sill Plate Options

OR

Sill plate
Sill plate

Extend siding below sill plate

Flashing

Min. 1/8" or flashing between siding and masonry

Masonry foundation
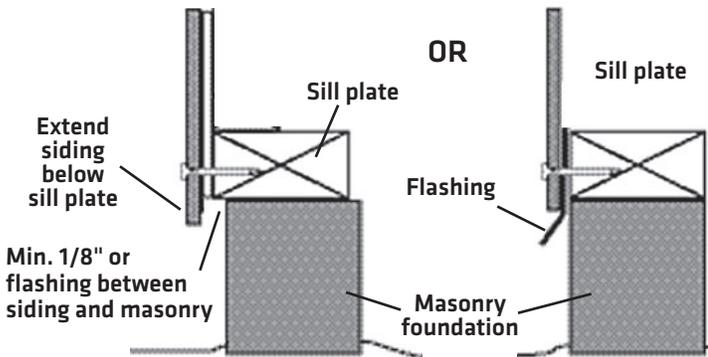
Figure 7A   Figure 7B

Gap, Flash Doors & Windows

Interior Finish
Siding
WRB
3/8" gap
Sloped flashing 4" vertical leg
Trim
Nail fin (do not damage)
Install window/door per manufacturer's instructions
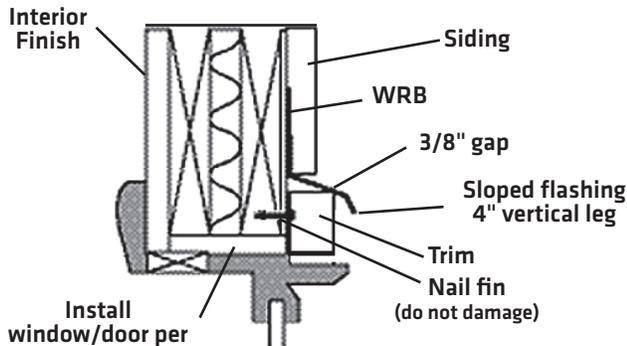
Figure 8

4 FT. X 8 FT. Ungrooved Shiplap Panel

Figure 9   Scant face width

SPACE JOINT 1/8"

Refer to nailing instructions

1/8" gap
1/8" gap
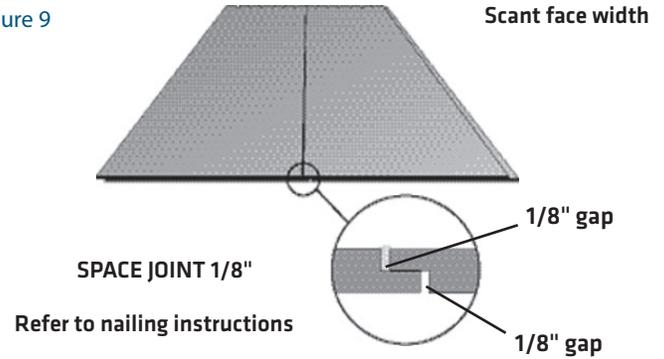
LP panel sidings are accepted by the State of California as category 8140- Exterior wall siding and sheathing for Wildland Urban Interface (WUI) applications. For WUI compliance, install LP panel sidings in accordance with Louisiana-Pacific's printed application instructions with the addition of fire retardant seal (UL Listed fire caulk, nominal 1/4 inch bead) in the vertical joint and nailing pattern of 3 inch o.c. perimeter nailing / 8 inch o.c. field nailing. Look for the California State Fire Marshal Office label on our siding.

The Louisiana-Pacific Corporation ("LP") LP SmartSide Siding (the "Products") limited warranty (the "Warranty") applies only to structures on which the Products have been applied, finished and maintained in accordance with the published application, finishing and maintenance instructions in effect at the time of application. The failure to follow such application, finishing or maintenance instructions will void the Warranty as to the portion of the Products affected by the variance (the "Affected Products").

LP assumes no liability for any loss or damage sustained by the Affected Products and is expressly released by the purchaser or owner from any such loss or liability.

Any modification of the Warranty's application, finishing or maintenance requirements is void and unenforceable unless approved in writing prior to application by the Siding General Manager or his designee and a member of the LP Legal Department.

For a copy of the warranty or for installation and technical support, visit the LP SmartSide product support Web site at:

www.lpsmartside.com
 or for additional support call 800-648-6893.

WARRANTY REMEDIES ARE NOT AVAILABLE IF REQUIREMENTS ARE NOT FOLLOWED.

Cal. Prop 65 Warning: Use of this product may result in exposure to wood dust, known to the State of California to cause cancer.

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NOTE: Louisiana-Pacific Corporation periodically updates and revises its product information. To verify that this version is current, call 800-648-6893.

alternate inside corner details

Gap 3/16" and seal

Figure 10A

Gap 3/16" and seal

caulk

Figure 10B

Vapor Retarder

if required
by code

Water-Resistive Barrier

6"

12"

6 in.

Figure 10

Shiplap Edge Panel

paint
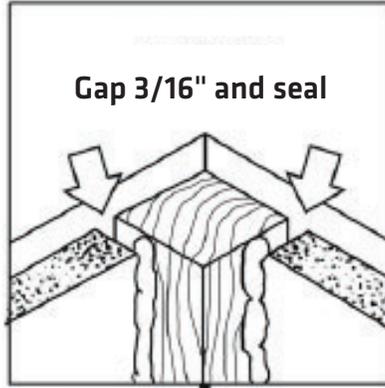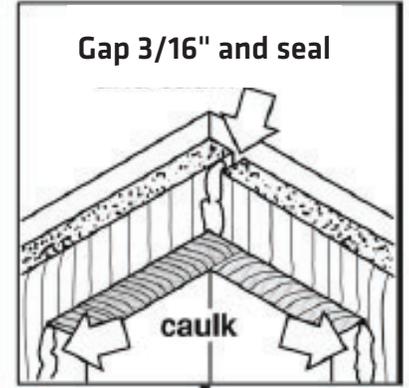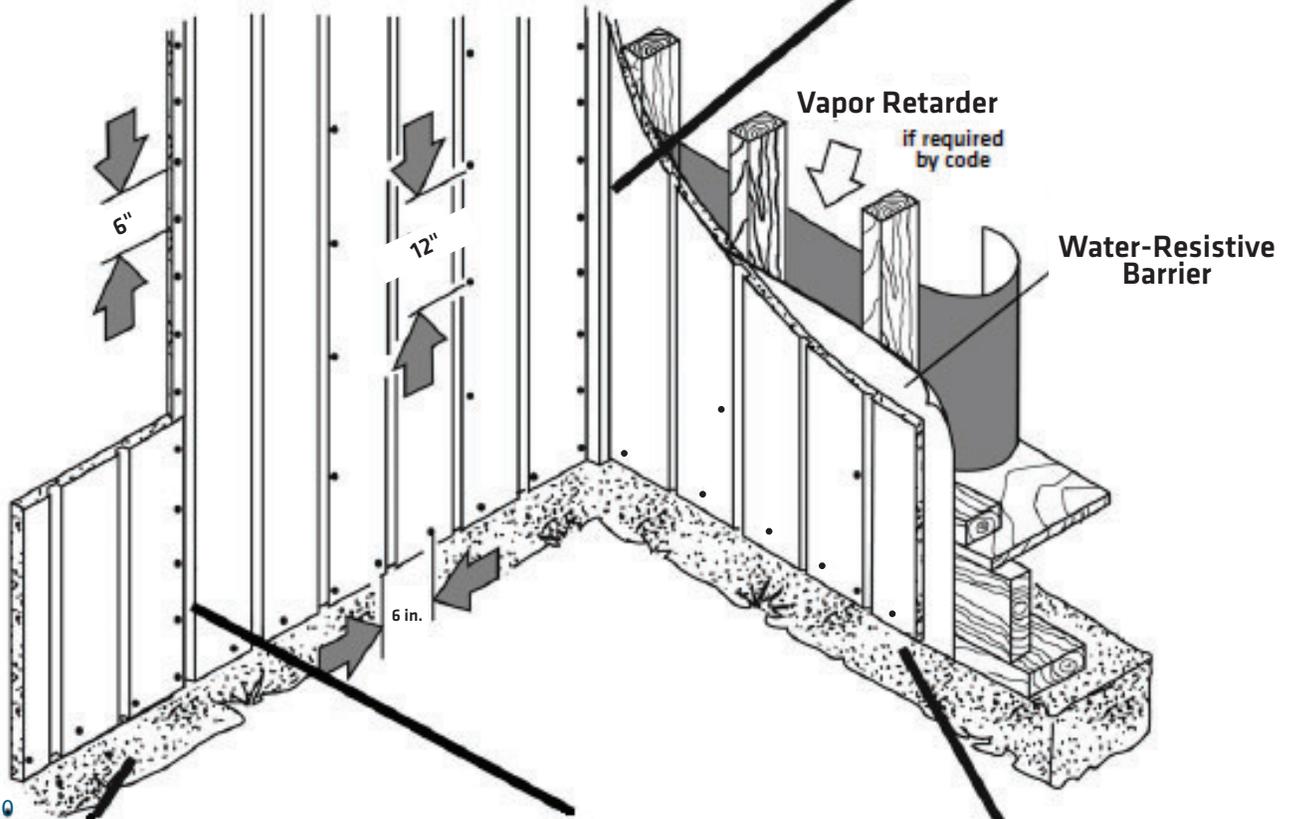
bottom course detail

Figure 10E
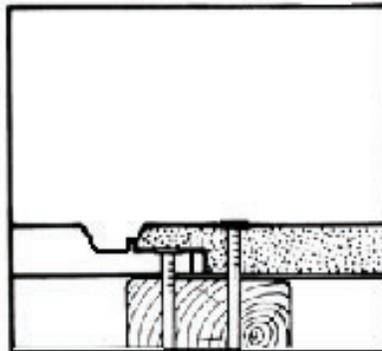
panel joint

Figure 10D

6 in. minimum
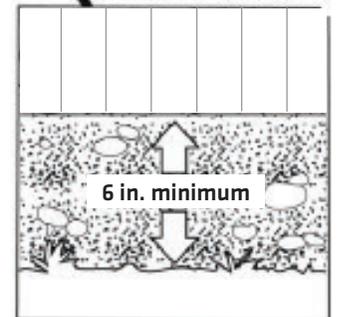
ground clearance

Figure 10C