

Technical Note No. 056

LP® SmartSide® and LP® SmartSide® ExpertFinish® Panel Cladding Installed over Furring in Canada



This Technical Note is an addendum to the LP® SmartSide® Panel Cladding (Siding) Application Instructions (“Instructions”) for use in Canada only. It is intended to provide an alternative fastening option for LP SmartSide panel siding over furring (strapping). The Instructions remain effective except as may be modified by this Note. Refer to the Application Instructions for all other aspects of product installation.

Panel cladding to furring:

- Panel cladding must be installed over a minimum 19 mm by 89 mm (3/4" x 3-1/2") actual size furring, when applied without wood structural panel (WSP) sheathing, on supports spaced no more than 400 mm (16" o.c.).
- For additional panel cladding attachment methods, refer to the [LP SmartSide panel cladding](#) application instructions.
- Current building science practices recommend ventilation at top & bottom of wall.
 - Openings at the top and the bottom of the wall should be open to the outside air and protected with insect screen. (Figures 6, 7, 10 & 11)
 - Check with local building codes for additional requirements.
- Cladding shall be installed to safely resist all loads, including wind loads, of the locally adopted building codes. The installation of cladding shall result in a system that provides a load path that meets the requirements for the transfer of loads from the point of origin through the load-resisting elements to the structure. The mechanical connection of the furring to 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 to the structure and is expressly released by the purchaser or owner from any such loss or liability. For complete warranty details visit LPCorp.com/Literature.

Limitations of Use:

- For use in Canada only.
- Panel cladding cannot be used for lateral bracing with this attachment method.
- Attaching LP® SmartSide® and LP® SmartSide® ExpertFinish® panel cladding to furring per Table 1:

Table 1

Panel Cladding (Siding) Installed Vertically Meets Maximum Design Wind Speed of 32.4 m/s (72.5 mph) per 2015 National Building Code of Canada				
Panel Sizes	Furring ⁽¹⁾	Furring Spacing	Minimum Fastener Size	Fastener Spacing
1 234 mm x 2.4 m (4'x8')	Vertical 19 mm x 89 mm (3/4"x 3-1/2") furring attached to framing ⁽²⁾	400 mm (16" o.c.)	0.092" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 150 mm (6") o.c. vertically into cladding and furring only (See Figure 4)
			0.113" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 200 mm (8") o.c. vertically into cladding and furring only (See Figure 5)
1 234 mm x 2.7 m (4'x9')	Horizontal 19 mm x 89 mm (3/4"x 3-1/2") furring attached to framing ⁽²⁾	300 mm (12" o.c.)	0.092" x 51 mm (2") HDG ⁽³⁾ ring shank nail	Two nails ⁽⁴⁾ every 400 mm (16") o.c. horizontally into cladding and furring only (See Figure 8)
			0.113" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 400 mm (16") o.c. horizontally into cladding and furring only (See Figure 9)
and	Horizontal 19 mm x 89 mm (3/4"x 3-1/2") furring attached to framing ⁽²⁾	400 mm (16" o.c.)	0.092" x 51 mm (2") HDG ⁽³⁾ ring shank nail	Two nails ⁽⁴⁾ every 400 mm (16") o.c. horizontally into cladding and furring only (See Figure 8)
1 234 mm x 3 m (4'x10')			0.113" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 400 mm (16") o.c. horizontally into cladding and furring only (See Figure 9)

Footnotes:

- (1) Wood furring shall be minimum 19 mm by 89 mm (3/4"x 3-1/2") actual size with specific gravity of 0.42 or greater per AFPA/NDS
- (2) The mechanical connection of the furring to structure is the responsibility of a design professional.
- (3) Fasteners shall meet or exceed the corrosion-resistance of hot-dip galvanized **ring shank** nail meeting the requirements of ASTM A153, Class D.
- (4) When double nailing, space fasteners a minimum 6 mm (1/4") apart.

**Nail Condition and Correction Guidelines:
LP SmartSide ExpertFinish Panel Cladding**

- Painting all exposed nail heads is recommended.
- Do not overdrive nails
 - Nail head should seat snug to face of cladding, but not be flush to distort the cladding surface. (Figure 1)

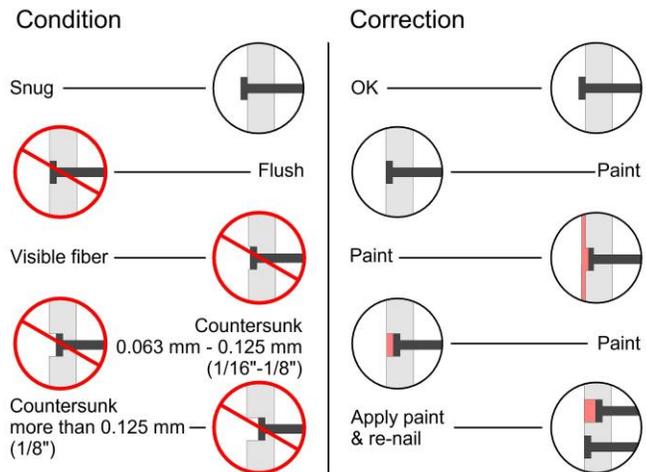
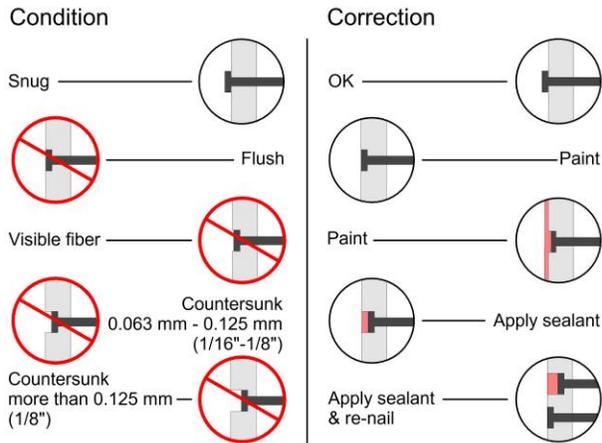


Figure 1



LP SmartSide Panel Cladding (Primed)

- Sealing all exposed nail heads is recommended.
- Do not overdrive nails
 - Nail head should seat snug to face of cladding, but not be flush to distort the cladding surface. (Figure 2)

Figure 2

Fastener placement:

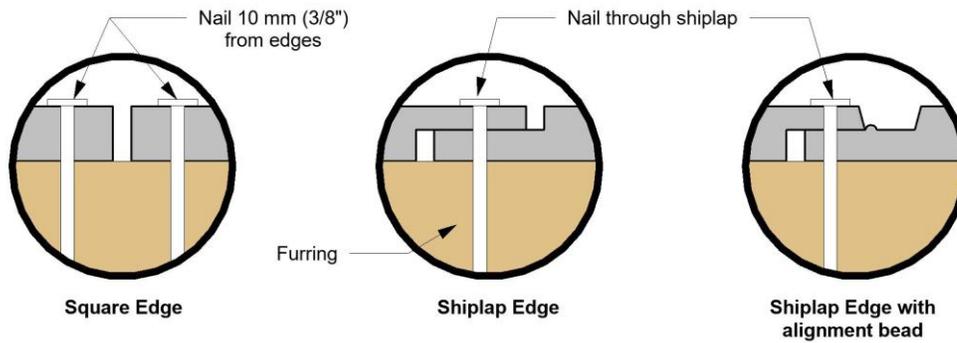


Figure 3

Min. 0.092 inch diameter **ring shank** hot-dip galvanized nail

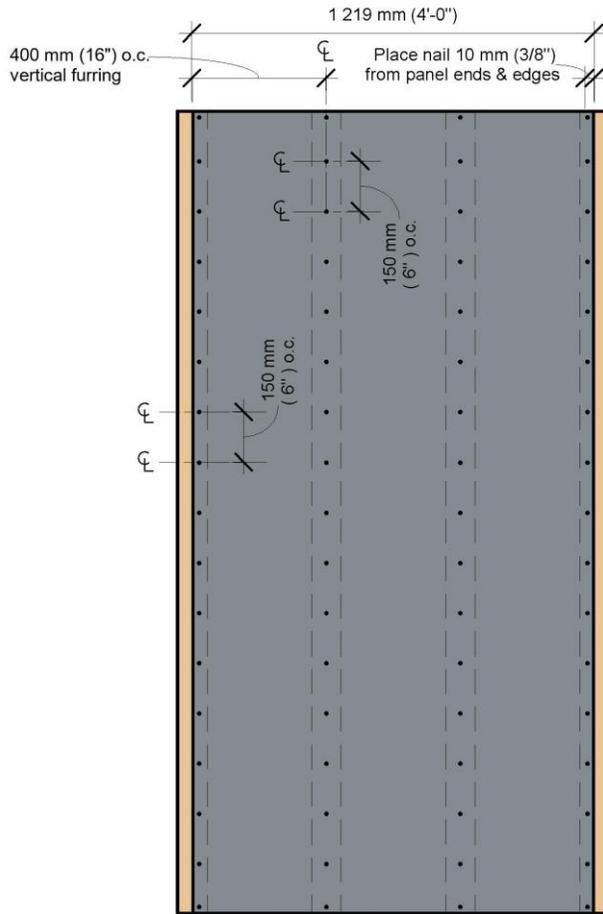


Figure 4

Min. 0.113 inch diameter **ring shank** hot-dip galvanized nail

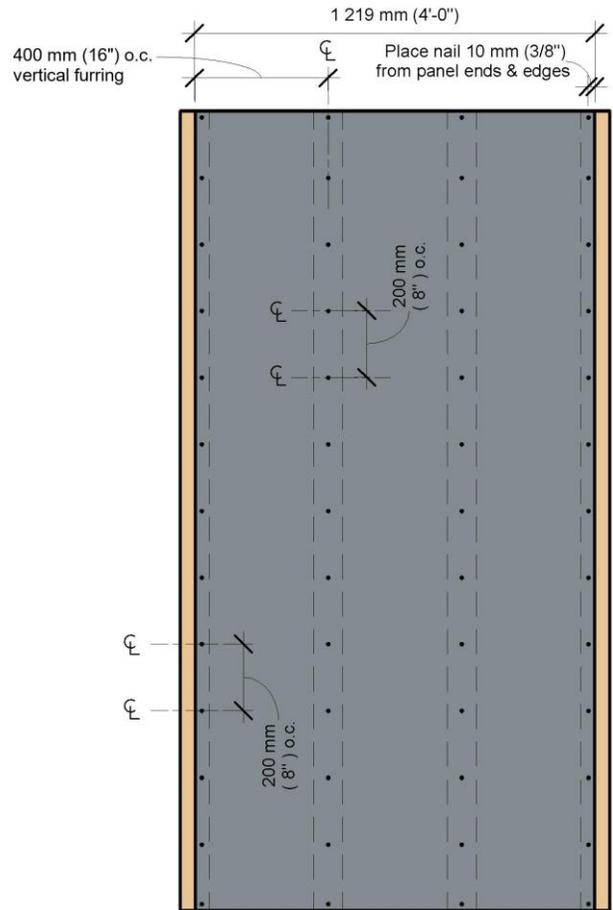


Figure 5

Fastening to Vertical Furring (Strapping)

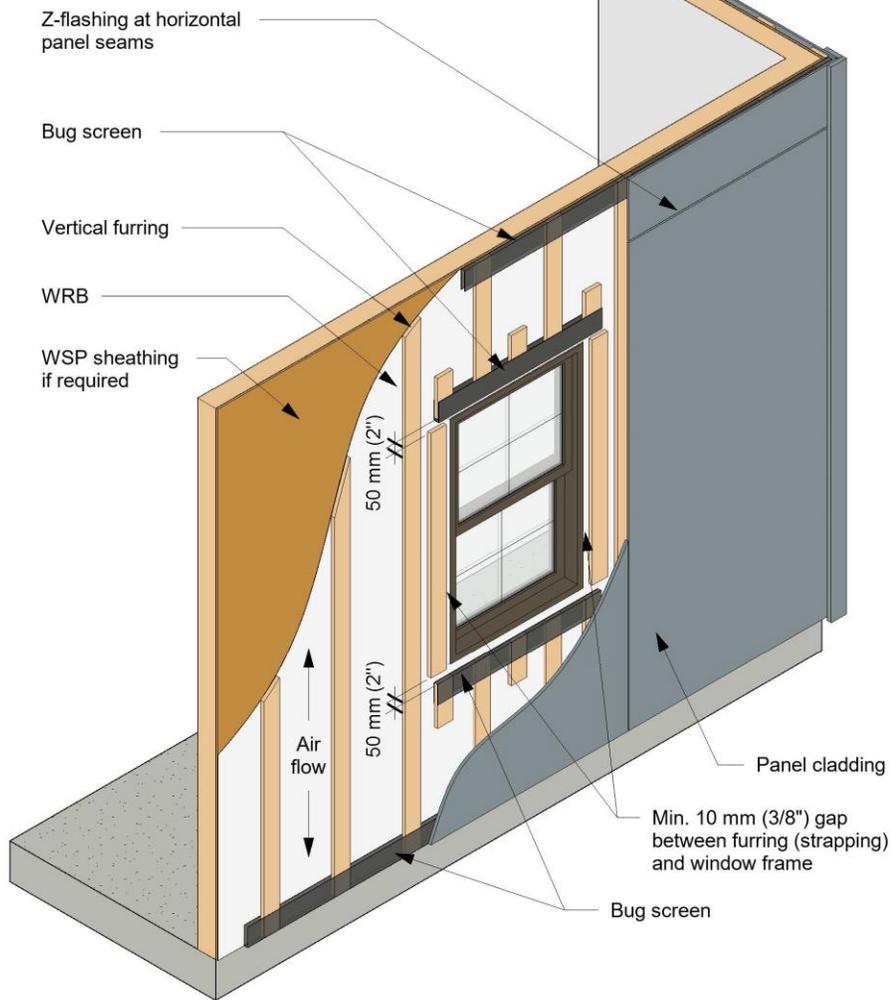


Figure 6

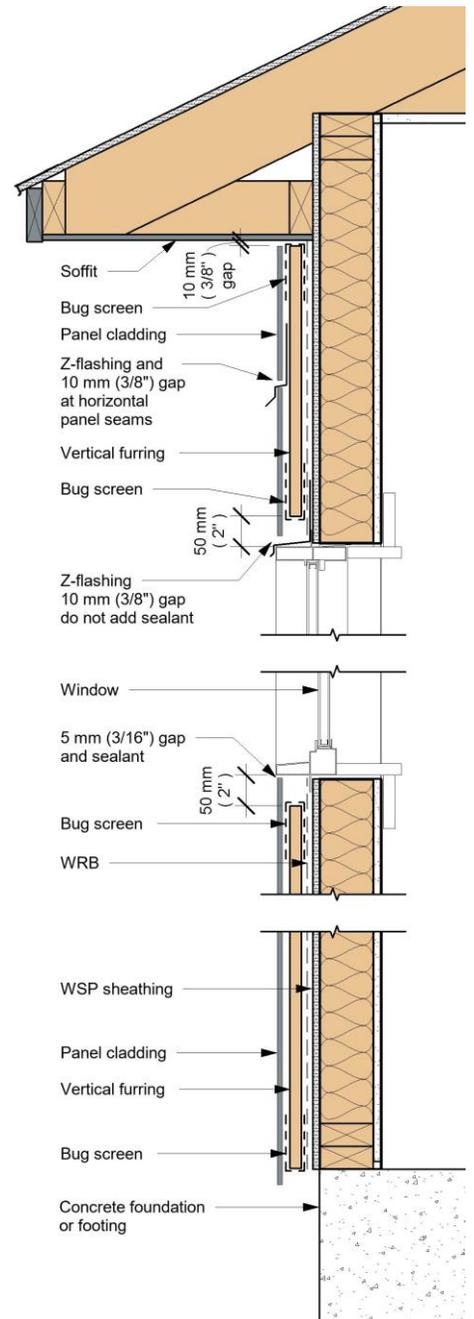


Figure 7

Min. 0.092 inch diameter **ring shank**
hot-dip galvanized nail

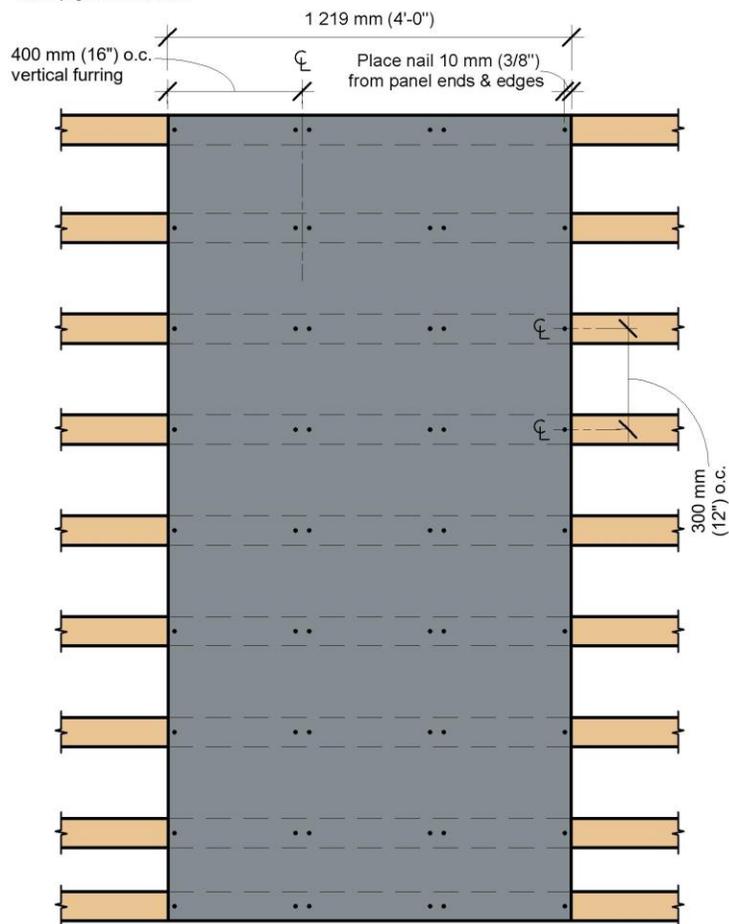


Figure 8

Min. 0.113 inch diameter **ring shank**
hot-dip galvanized nail

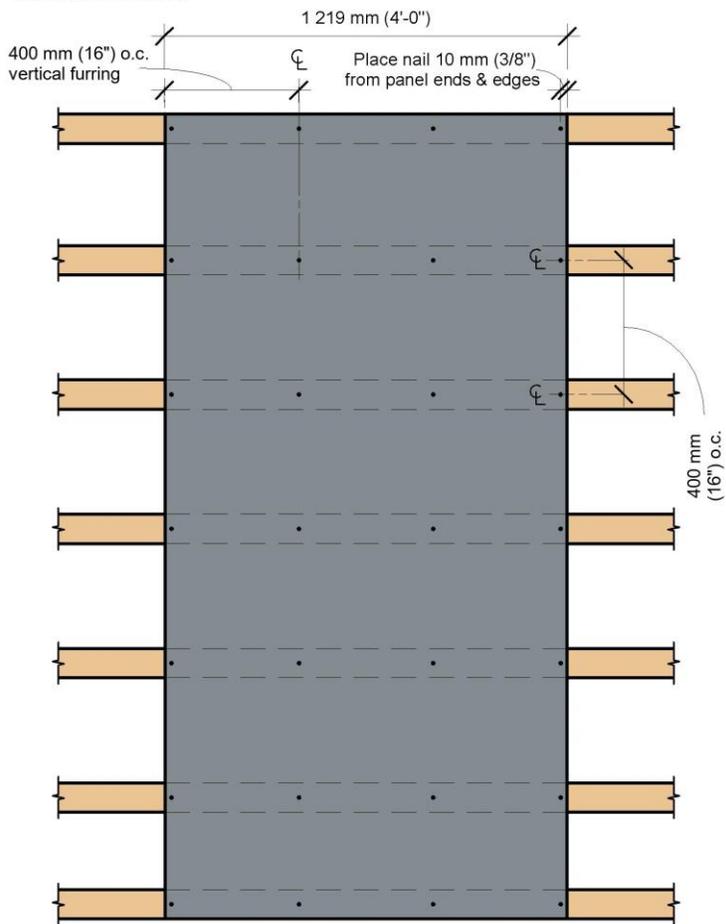


Figure 9

Fastening to Horizontal Furring (Strapping)

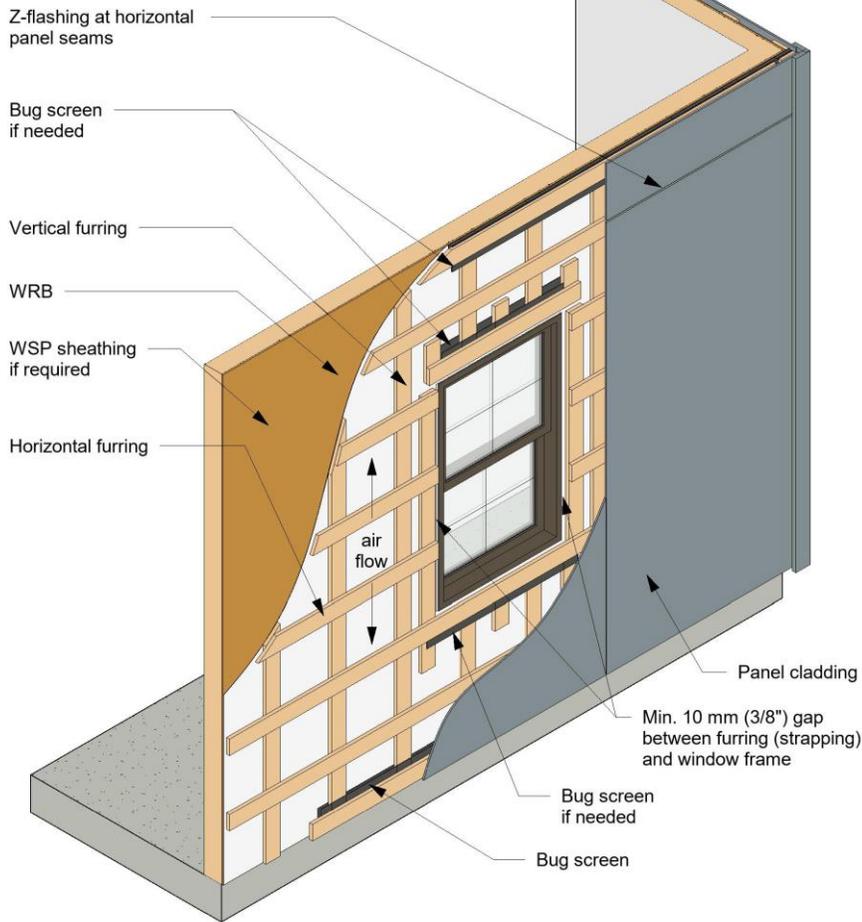


Figure 10

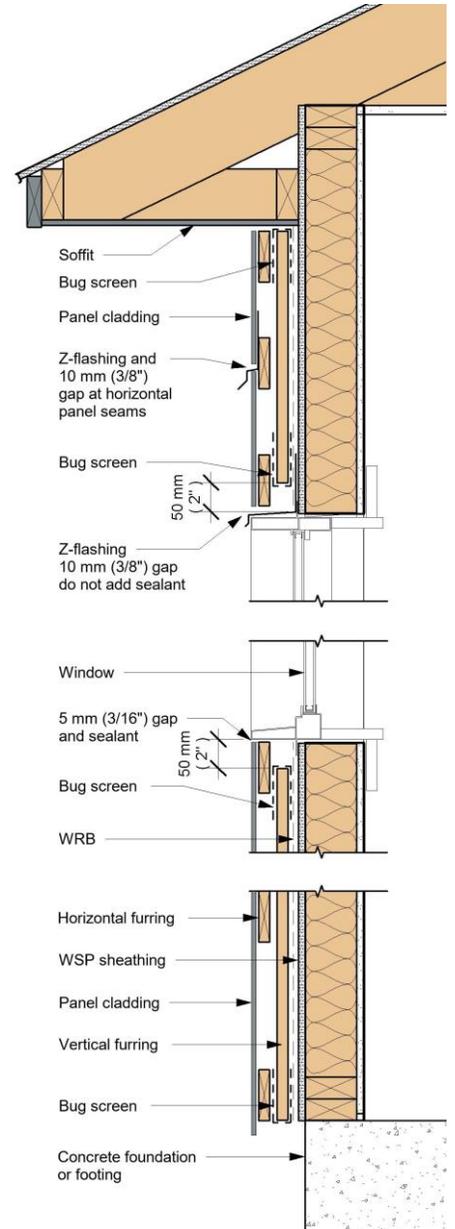


Figure 11