

This technical profile illustrates most residential flashing details. The purpose of flashing is to direct moisture, which has accumulated in the wall system, to the exterior and in so doing, prevent moisture from deteriorating steel angles, timber studs, or other building components. The following details were designed to accomplish both goals. Modifications to these details are normal, however the changes should always focus on the primary objectives for flashing.

The following list gives general guidelines for flashing installation and moisture control.

FLASHING

- Extend 25 mm past end of lintels, 100 – 150 mm past end of brick sills.
- For non - adhering flashing, cut sheathing board to install, or use plastic straps, or lap under building paper or house wrap.
- Use at least 0.50 mm (20 mil) thick in most situations except where flashing requires end dams, then use 1.5 mm (60 mil).

Note 1: Building codes and brick industry standards require that the flashing project at least 5 mm beyond the face of the brickwork.

WEEPHOLES

- Can be stained cotton rope, open head joints or brick vents.
- Cotton ropes should be spaced 400 mm o.c.; open head joints or brick vents should be spaced 800 mm o.c..
- The rope used for weepholes should be long enough to tie to a brick anchor.
- Suggest using plastic woven mesh, "Mortar Net" or similar, behind weepholes to help prevent mortar from clogging weeps.

WINDOWS

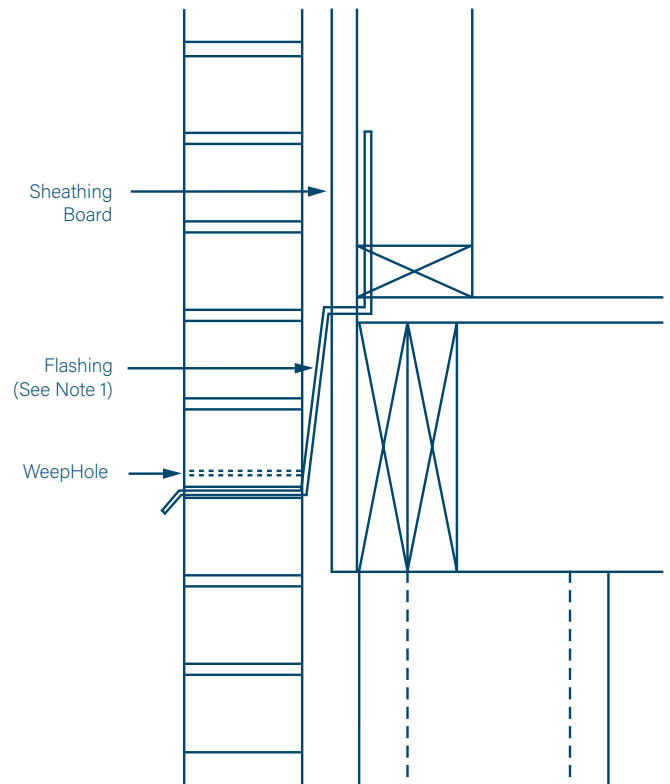
- It is suggested that windows be either vinyl or aluminum clad. These window frames typically have flanges for fastening the frame to the building. The frames that have a one-piece flange and molding seem to be better at keeping moisture out of the window.
- Arched wood frames, whether semi-circular or palladian, require special flashing consideration. Self-adhering flashing should be cut and molded to fit around the curved portion and adhered to the wood.

ANCHORS

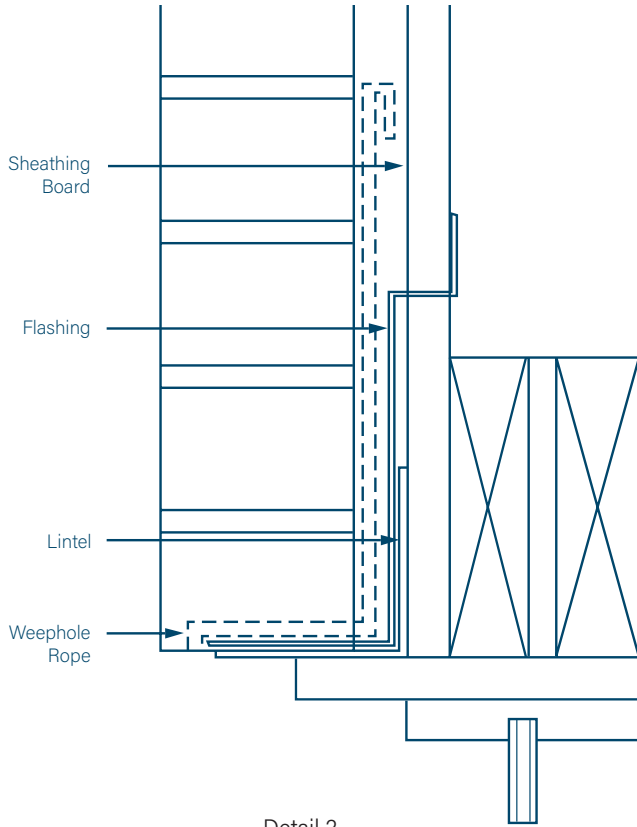
It is suggested that additional anchors be attached to the frame above the through-wall flashing.

ADDITIONAL MOISTURE PROTECTION STEPS

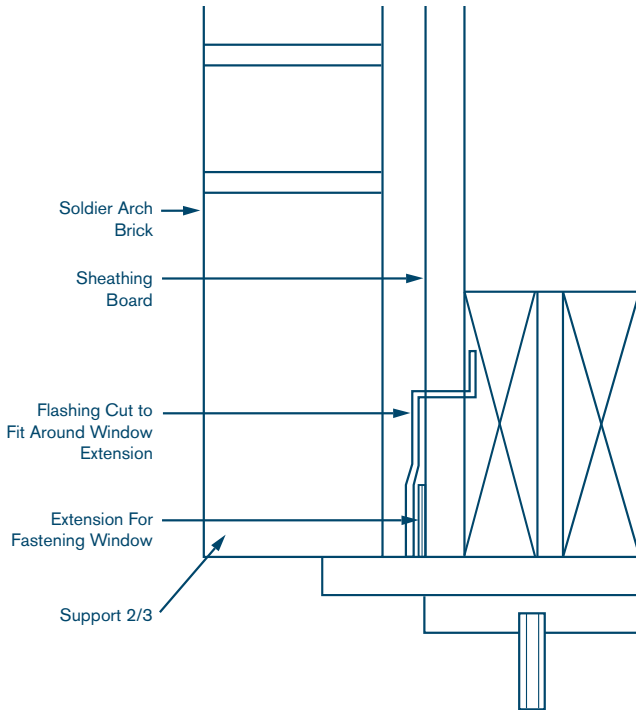
- Chimney caps can have either a sloping reinforced concrete cap or a metal cap. If concrete is used, the outside edge should be at least 50 mm thick and 75 mm thick at the flue liner. Concrete is preferred over mortar since it is typically 3 times stronger. If a metal cap is used it should fit snugly over the brick and caulked along the edges, overhang and drip groove.
- Mortar joints are normally the location where moisture gets through the brickwork. Three factors are important. The first is that the joints should be filled at least 75% full. The second is consistent mortar proportions; 1 bag mortar mix to 3 cu. feet (0.085 m³) of sand. The third is that the mortar should be wet enough to ensure good bond.
- A building wrap, felt paper or similar material, is suggested as additional moisture protection. It covers the sheathing board and joints.



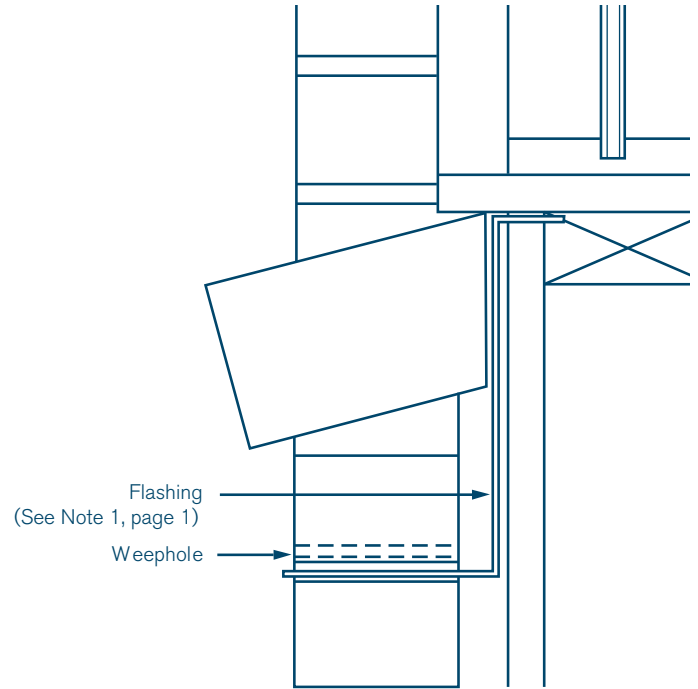
Detail 1
Flashing at First Floor, Over Crawl Space



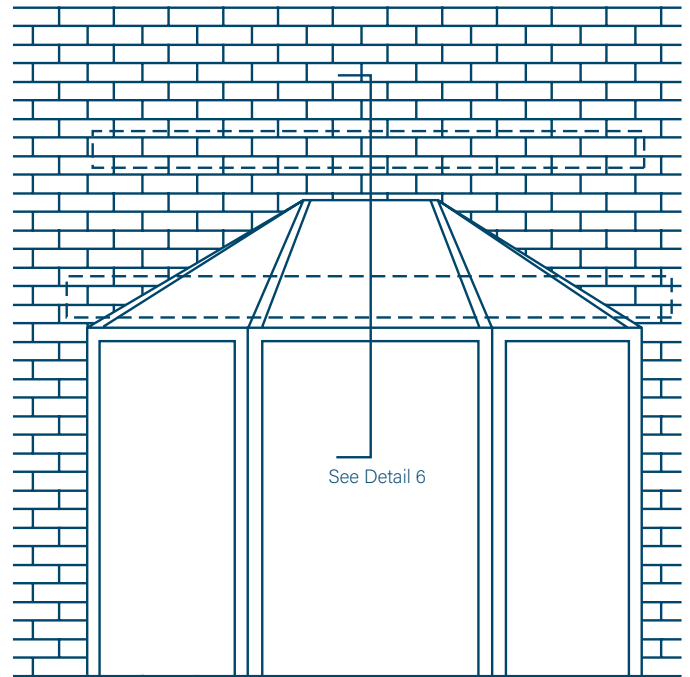
Detail 2
Flashing at Door/Window Head



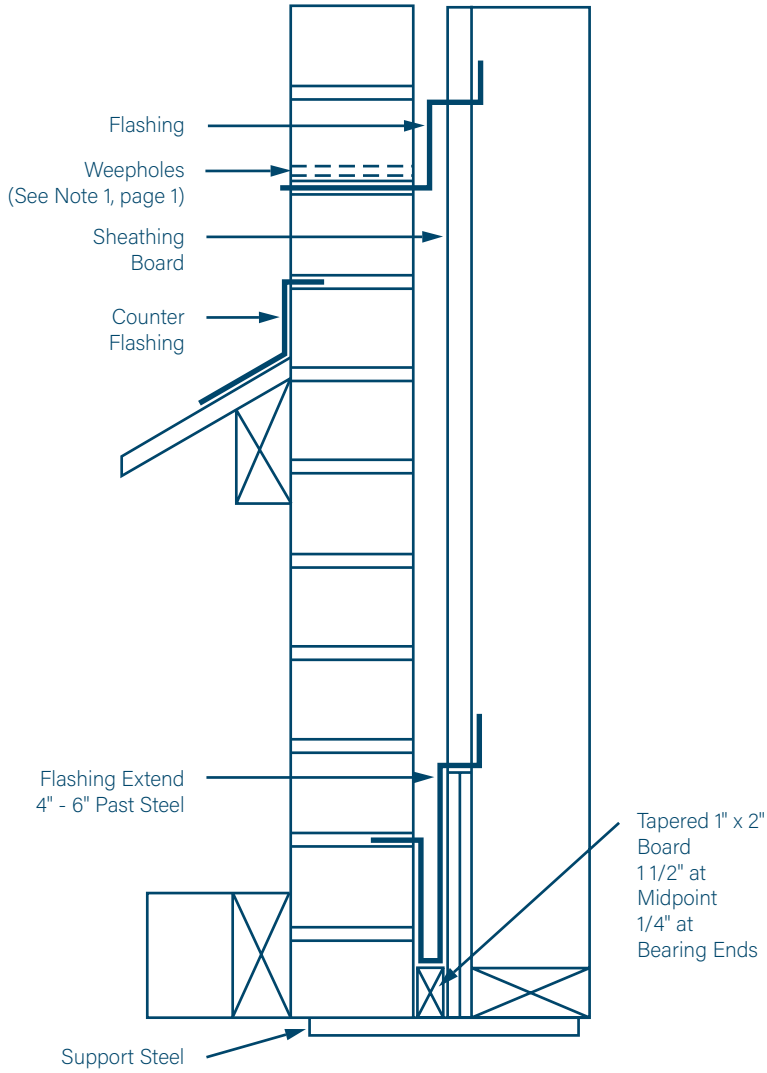
Detail 3
Flashing at Head of Curved Door/Window Opening



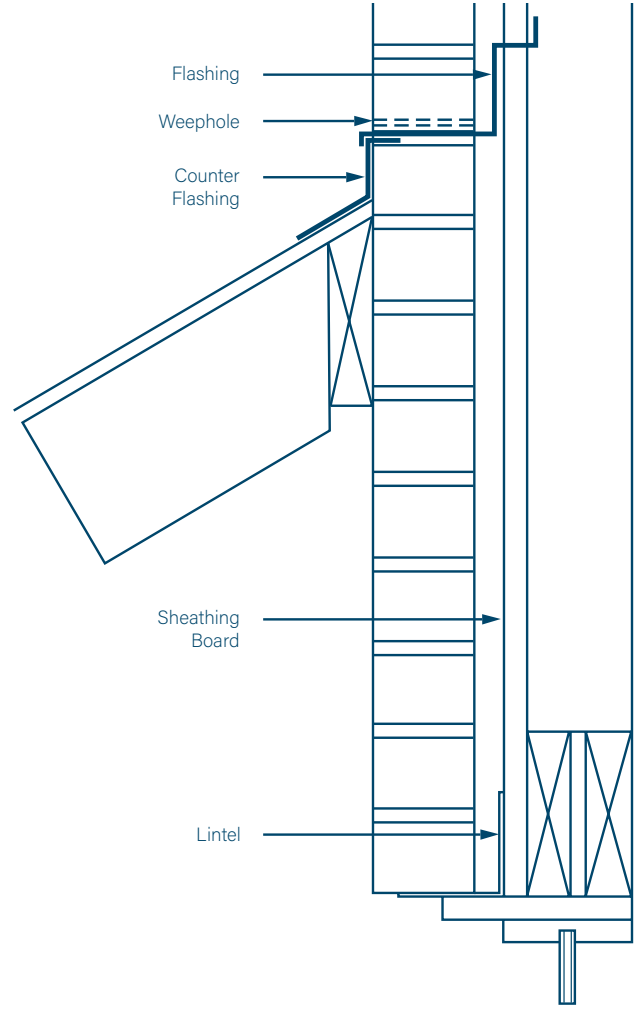
Detail 4
Flashing at Window Sill
Optional - Leave Flashing Out of Mortar Joint



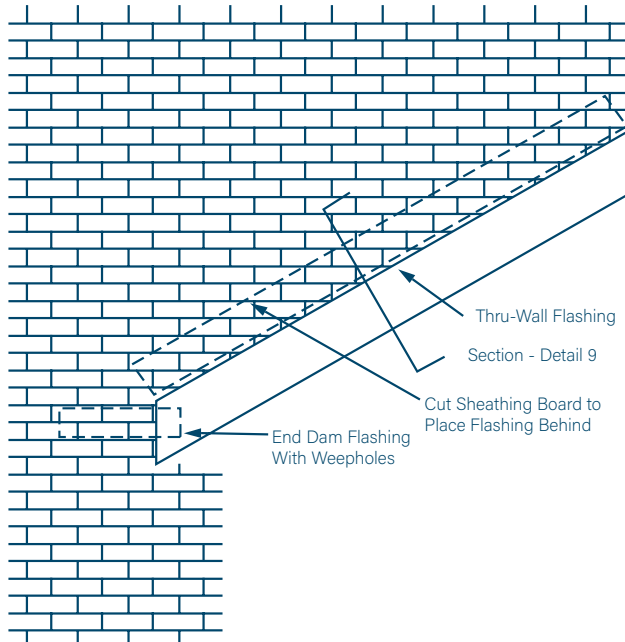
Detail 5
Bay Window Elevation with Thru-Wall Flashing



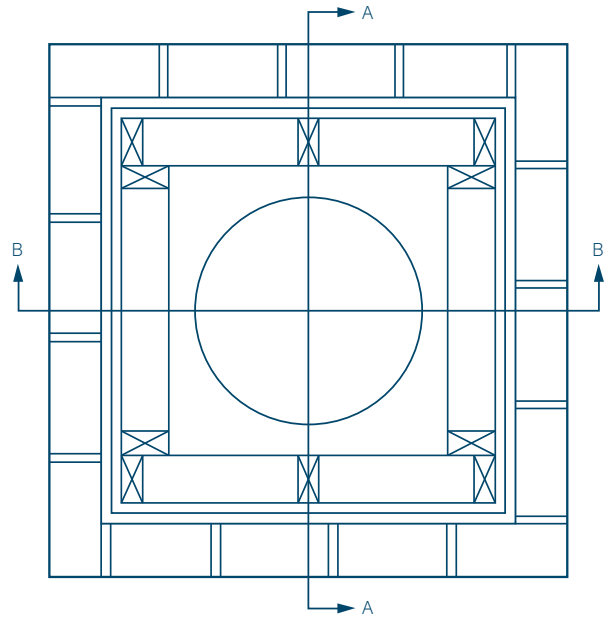
Detail 6
Flashing at Bay Window Head



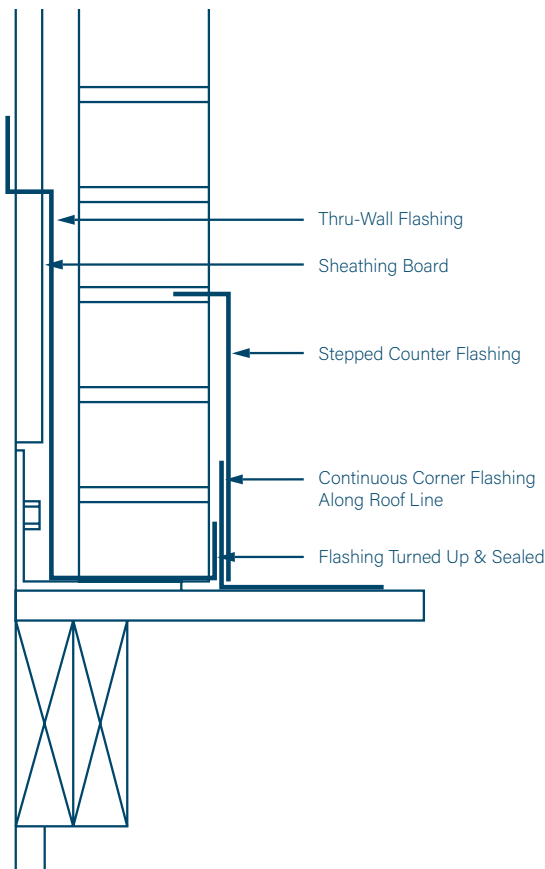
Detail 7
Flashing at Low Roof Over Enclosed Space



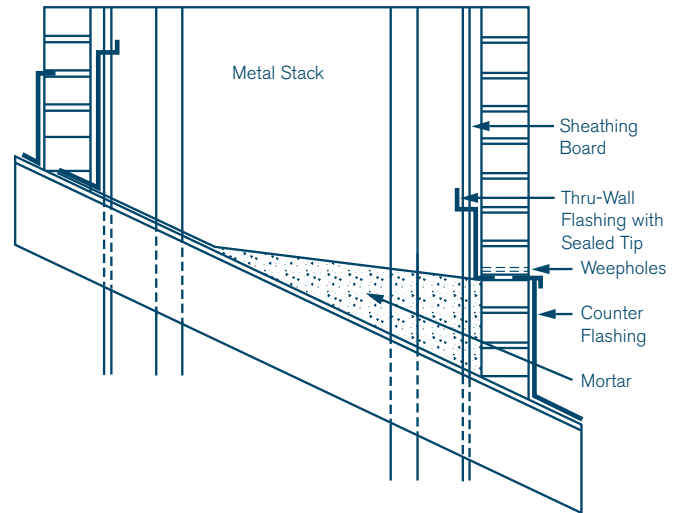
Detail 8
Flashing at Low Roof, Supporting Brick



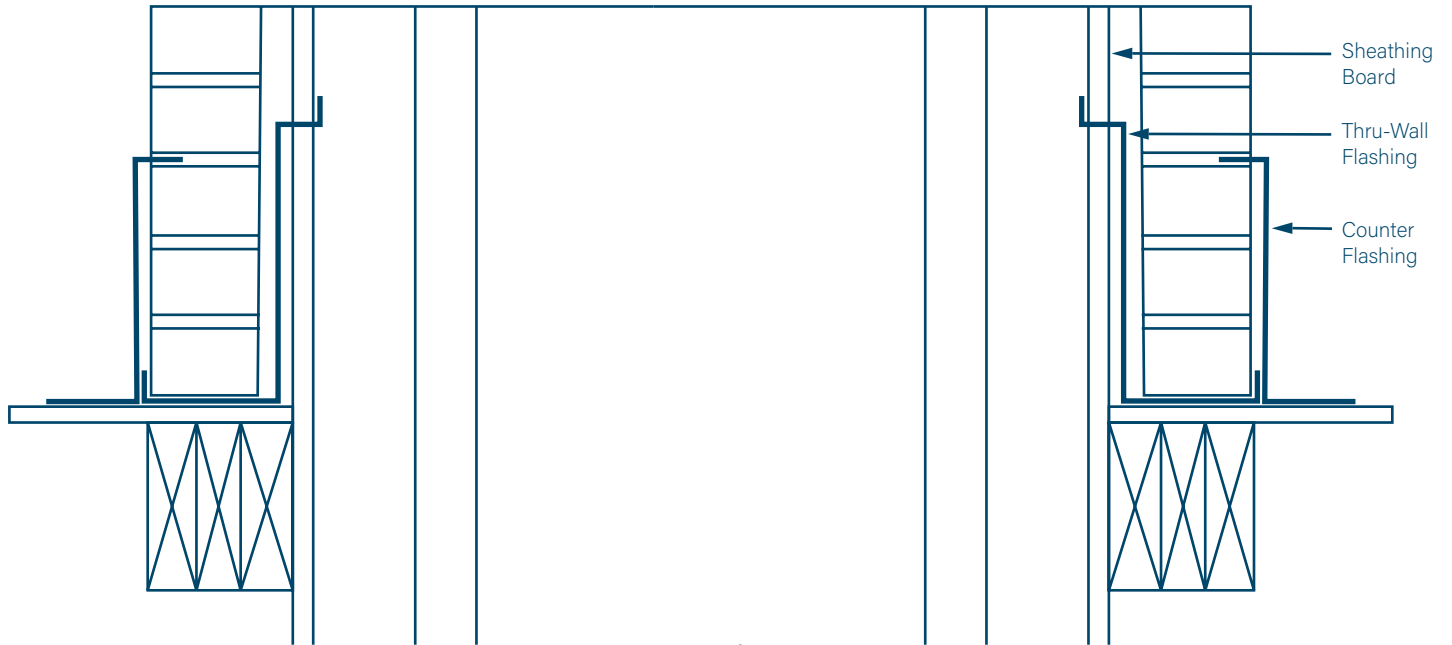
Detail 10
Plan View - Prefab Chimney



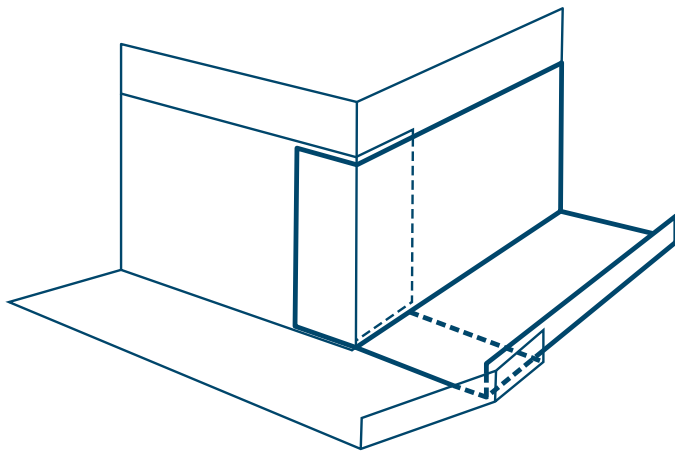
Detail 9
Flashing Section at Sloping Low Roof (See Detail 8)



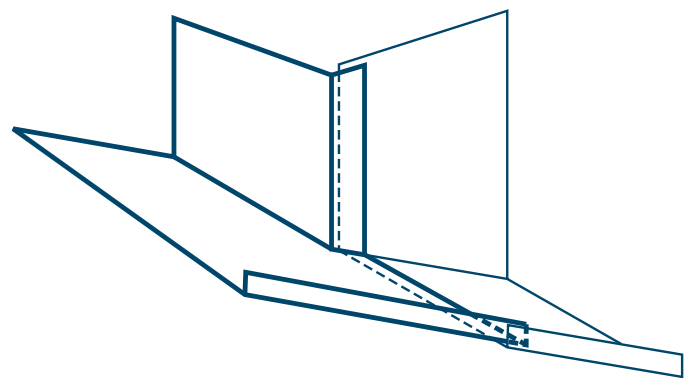
Detail 11
Section A-A, Prefab Chimney



Detail 12
Section B-B, Prefab Chimney



Detail 13
Lower Corner Flashing, Prefab Chimney



Detail 14
Upper Corner Flashing, Prefab Chimney