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## In-line lean-to junction detail

The roof-to-wall junction detail where the side of a lean-to finishes in line with the main building is tricky. We work through some options.

**ACCEPTABLE SOLUTION** E2/AS1 doesn't include details for roof-to-wall junctions where the side of a lean-to finishes in line with the main building and the roof slopes away from the upper wall (Figure 1).

## Sequencing for installation

Figures 2–5 illustrate the steps for the construction of the detail where a sheet cladding is installed over a drained and vented cavity. **Step 1** – Complete all wall and roof framing. **Step 2** – Install wall underlay to lower-level walls. **Step 3** – Lay roof underlay to lean-to roof turned up higher wall and down face of wall.

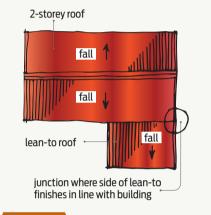


Figure 1 Junction detail location.

Step 4 – Fit cavity battens to continuous side wall.
Set horizontal batten to suit location of horizontal timber trim and flashing.
Step 5 – Fit flexible flashing tape to the corner

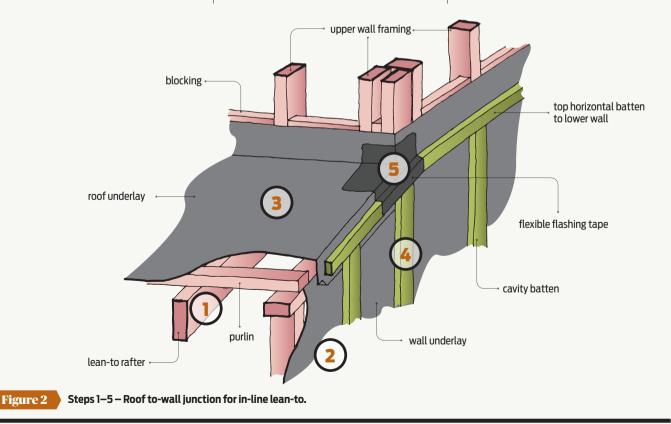
at top of lean-to and dress over cavity battens. **Step 6** – Install roofing to lean-to.

Step 7 – Install cladding to lower level.

**Step 8** – Fix bargeboard to side of lean-to and the horizontal timber trim.

Step 9 - Barge flashing installed.

Step 10 – Fit horizontal flashing to cladding break
Step 11 – Install wall underlay to upper side
wall. Lap over flashing upstand. >>



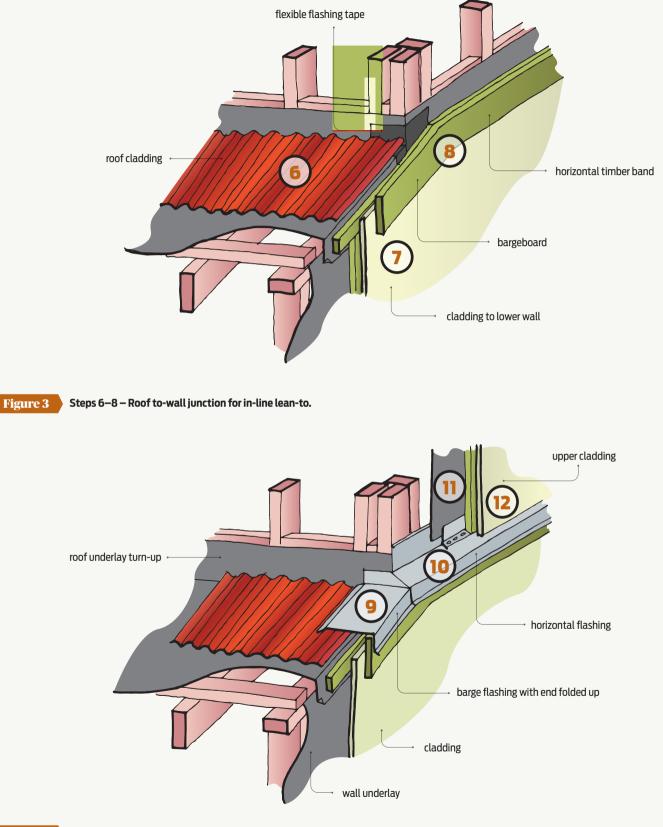
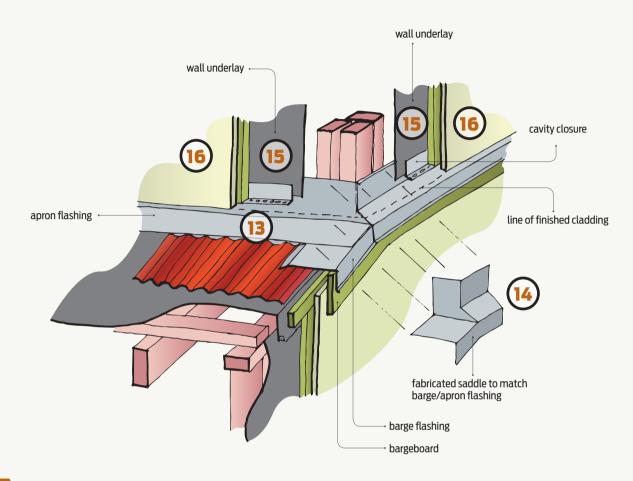


Figure 4 Steps 9–12 – Roof to-wall junction for in-line lean-to.





Steps 13–15 – Roof to-wall junction for in-line lean-to.

Step 12 – Begin cavity closure, battens and cladding to side wall but don't complete to corner.
Complete horizontal z flashing to side wall.
Step 13 – Install horizontal apron flashing.
Step 14 – Install fabricated corner flashing over apron, barge and horizontal break flashing.
Step 15 – Install wall underlay to upper return wall, lap over apron flashing upturn.
Step 16 – Complete cavity closures, cavity battens and cladding installation on upper wall.

## Some specifics from E2/AS1

Specific requirements of Acceptable Solution E2/ASI include that there must be:

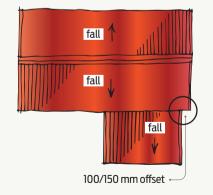


Figure 6

A simpler option – a step at the lower wall junction means the barge simply butts to the wall at right angles

- a 75 mm minimum wall cladding cover over the upstand
- a gap between the wall cladding and the roofing as per E2/AS1 Table 7
- cover over the roofing as per E2/AS1 Table 7 depending on wind zone and roof pitch.

## Option to make this detail easier

Figure 6 provides a step at the lower wall junction so that the barge simply butts to the wall at right angles.