

Wall corners and the gable joint

Walk-In v1.1.0 / Junction case v1.0.0

A worked fit case for measured 1/2 in panels, actual 48 x 96 in stock, 1/8 in panel gaps and 1/8 in saw kerf. End panels cover side-panel edges. No bottom extension is included. These assumptions must match the actual product and framing. The roof profile, sloping gable-edge support, fastening and weather layers remain to be resolved; this is not a replacement structural release.

What this resolves

A defined end-over-side panel arrangement, a rear seam that fits the assumed stock and a horizontal gable joint within the existing double top plate.

What is deliberately different

J-prefix panel IDs are a separate fit case. Do not combine their widths or heights with the earlier frame-plane allocation. The rear seam moves from 48 to 32 in; end-wall panels become 94 7/16 in high. Side panels remain 96 in high.

Before adopting the case

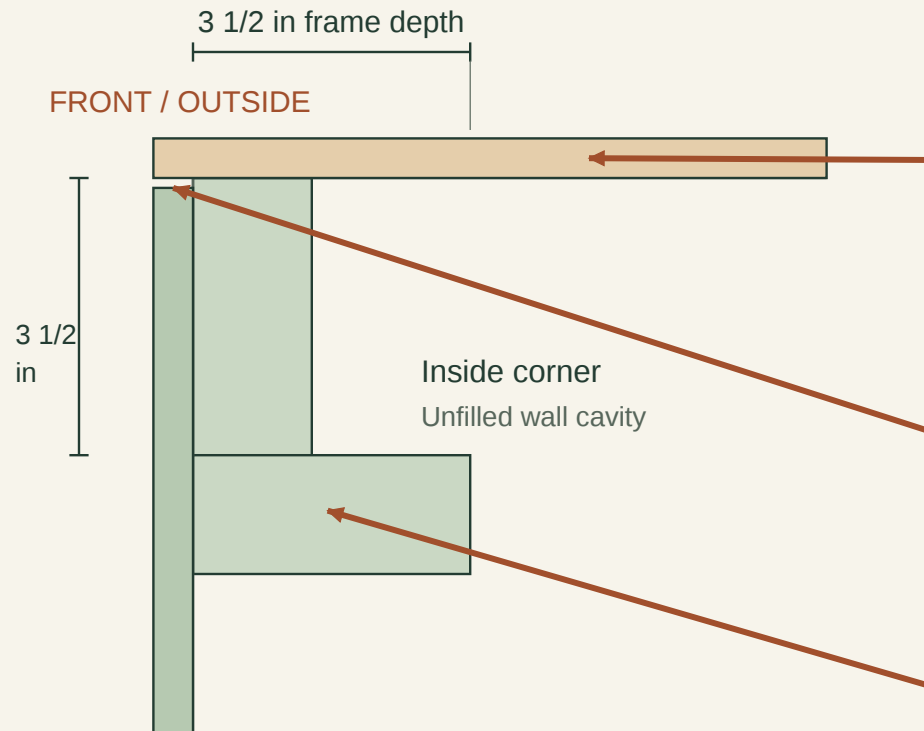
Confirm the measured panel thickness and actual stock size, the required joint gap, wall datum, chosen corner finish and the actual roof profile. Product-specific fastening, sloping gable support, bracing and local loads are not settled here.

Purchase consequence

Ten main sheets still contain the ten rectangular pieces in this declared case. Two retained strips can contain the revised gable blanks. This is not a final ten-sheet order; the original M11 allowance of 16 is not automatically changed.

J01 / Give the corner a defined overlap

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01 / End panel caps the side edge
1/2 in thickness in this case.
Extend 1/2 in beyond each end
of the 72 in framing face.

02 / Side panel stops 1/8 in back
The end-panel inner face is $y = 0$.
Side panel begins at $y = 1/8$.
Keep kerf separate from this gap.

03 / Existing corner timber
Front stud: $1\frac{1}{2} \times 3\frac{1}{2}$ in.
Side end stud starts at $y = 3\frac{1}{2}$.
Fasten into timber, not the lap.

End-face cover width = $72 + \frac{1}{2} + \frac{1}{2} = 73$ in. Side face runs from $\frac{1}{8}$ to $95\frac{7}{8}$ in.

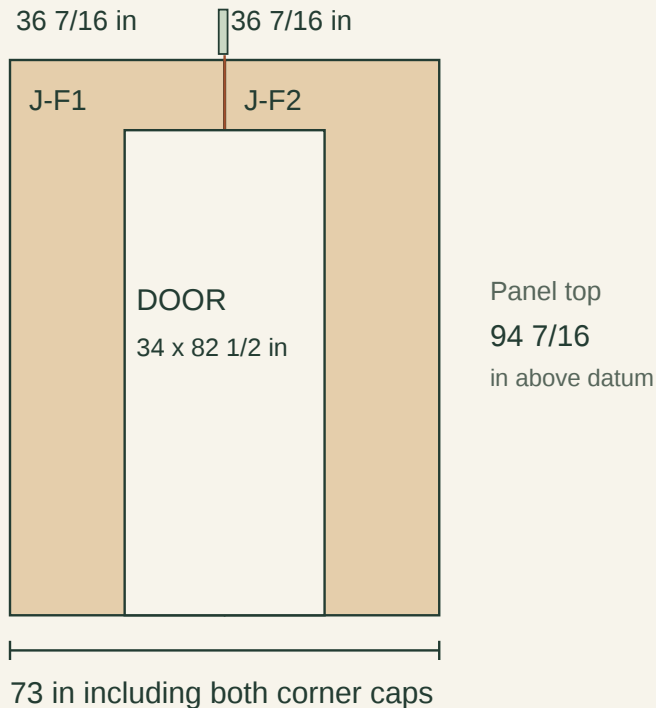
This section omits WRB, siding and trim; panel overlap alone does not make a weatherproof corner.

J02 / Move the rear seam onto a usable sheet

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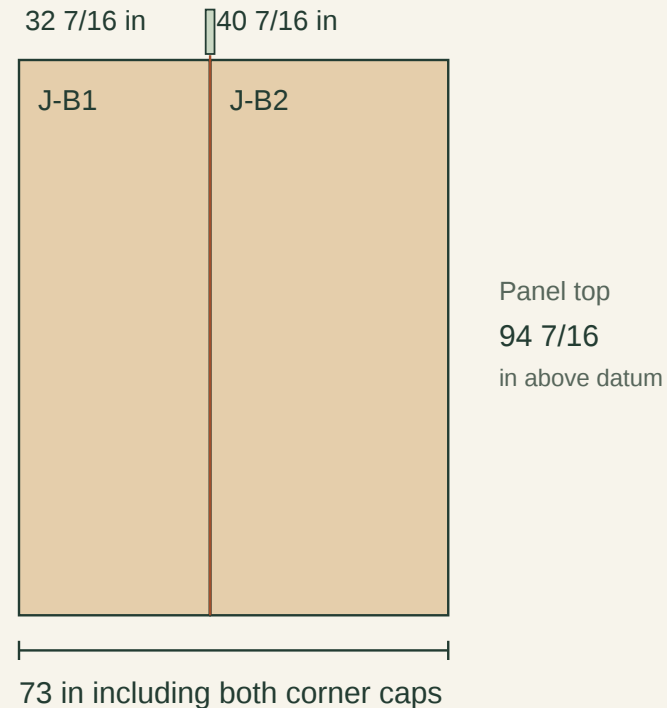
FRONT / joint at 36 in

Zero = left framing edge; cap starts at -1/2 in



REAR / joint at 32 in

Zero = left framing edge; cap starts at -1/2 in



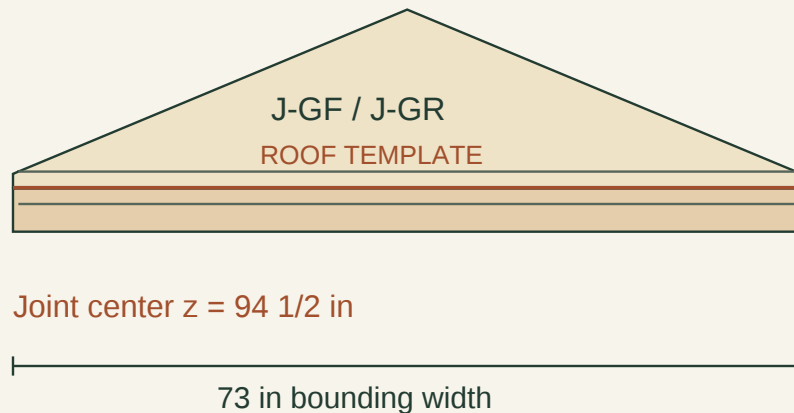
Old rear joint at 48 in needs a first piece 48 7/16 in wide: wider than 48 in stock.

Joint at 32 in uses existing stud face 31 1/4-32 3/4 in. New rear pieces: 32 7/16 + 40 7/16 in.

J03 / Put the horizontal joint on the plates

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FRONT / REAR: same horizontal joint



Top of two existing plates: $z = 96$ in.

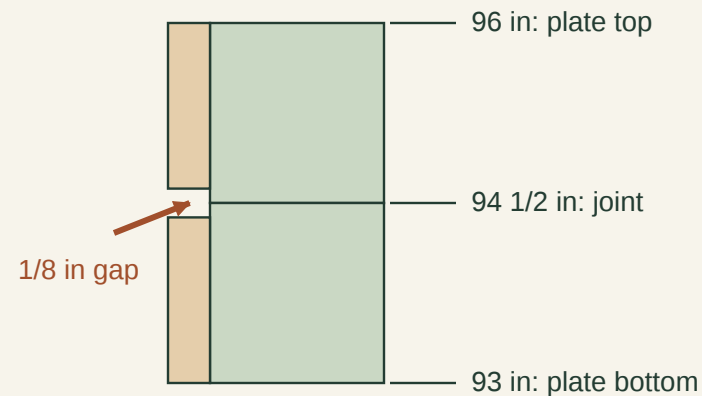
Bottom of the double plate: $z = 93$ in.

Lower panel ends at $94 \frac{7}{16}$ in.

Gable starts at $94 \frac{9}{16}$ in.

JOINT ENLARGEMENT

Depth and gap enlarged / not to scale



Both panel edges overlap actual timber.

Confirm the fixing pattern and edge distances for the selected panel and wall design.

No gable studs or raking-edge fixings are supplied by this joint sketch.

Bounding gable blank: $73 \times 16 \frac{7}{16}$ in. JO07 / JO10 strips: $19 \frac{9}{16} \times 96$ in.

Reuse fits geometrically; actual roof profile, panel orientation and sloping / intermediate supports still control it.

J-case panel and offcut schedule

All dimensions in inches. Rip each sheet to width first; retained strips stay 96 in long. Crosscut the four end-wall pieces afterward. No opening cutout, horizontal offcut or spare-sheet credit is assumed.

Piece / sheet	Face	Start -> end	Width x height	Rip strip x 96
J-F1 / JS01	Front	-1/2 -> 35 15/16	36 7/16 x 94 7/16	JO01: 11 7/16
J-F2 / JS02	Front	36 1/16 -> 72 1/2	36 7/16 x 94 7/16	JO02: 11 7/16
J-B1 / JS03	Rear	-1/2 -> 31 15/16	32 7/16 x 94 7/16	JO03: 15 7/16
J-B2 / JS04	Rear	32 1/16 -> 72 1/2	40 7/16 x 94 7/16	JO04: 7 7/16
J-L1 / JS05	Left	1/8 -> 35 7/16	35 5/16 x 96	JO05: 12 9/16
J-L2 / JS06	Left	35 9/16 -> 67 7/16	31 7/8 x 96	JO06: 16
J-L3 / JS07	Left	67 9/16 -> 95 7/8	28 5/16 x 96	JO07: 19 9/16
J-R1 / JS08	Shared right	1/8 -> 35 7/16	35 5/16 x 96	JO08: 12 9/16
J-R2 / JS09	Shared right	35 9/16 -> 67 7/16	31 7/8 x 96	JO09: 16
J-R3 / JS10	Shared right	67 9/16 -> 95 7/8	28 5/16 x 96	JO10: 19 9/16

J-GF and J-GR: each 73 x 16 7/16 in bounding blank; candidate sources JO07 and JO10, each 19 9/16 x 96 in. Reuse is conditional on the selected panel and the fitted roof template.

Use the detail in the right sequence

S04 / Confirm the frame datum

Check the 72 x 96 in outside frame and actual corner studs. Mark rear station 32 in and side stations 35 1/2 and 67 1/2 in from their stated zero edges. Mark the end-wall horizontal joint at 94 1/2 in within the double plates.

S05 / Fit the actual roof and gable profile

The 111 in ridge and 5:12 outline are reference geometry. Fit a template to the actual roof assembly. Resolve raking and intermediate gable support, fasteners and any ventilation opening before treating the candidate blank as a cut shape.

S08 / Dry-fit the corner before batch cutting

Confirm end-panel caps and side-panel setbacks. Check the two edges at every seam against actual timber. Keep the 1/8 in installation gap separate from the saw kerf. Record any change in product thickness or perimeter treatment and revise all affected widths.

M11 / Reconcile the complete quantity

Use J-piece and JS-sheet IDs when quoting this case. Add any replacement gable sheets, damage allowance and perimeter changes. M12 roof sheathing and M14 WRB/siding/trim stay separate; this pack does not reduce the saved purchase quote.

Basis: fixed Walk-In frame coordinates, B02/B03. [APA M300](#) supports the general spacing principle; the cap arrangement and relocated joint are an editorial geometric application, not APA approval of this design.

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