

Wall panels: trace the quantity

Walk-In build v1.1.0 / Wall study v1.0.1

Ten sheets are allocated to the four gross rectangular faces in this study. Two retained strips can geometrically contain the gables. This is a traceable layout to reconcile, not a final ten-sheet purchase list.

The original M11 allowance remains 16 sheets until perimeter, selected product, gable details and spares are reconciled. The study does not change the 29-page fixed build release.

Measure the finished perimeter

This map covers the 72 x 96 in end frames and 96 x 96 in side faces at the framing plane. Choose which sheathing layer overlaps at each corner; add any thickness, bottom extension or trim allowance to the affected panels. No corner lap is silently included.

Choose the actual panel

Check wall rating, orientation, thickness and usable sheet size. Apply the manufacturer's edge/end gaps to the joint positions. The example 1/8 in saw kerf is a stock-accounting assumption, not the installation gap.

Resolve openings and all edges

Mark the selected door and vents against the frame before cutting. Check top/bottom plates, corners, door perimeter and gable edges as well as the illustrated vertical seams. This study does not add a new fastening or wall-bracing design.

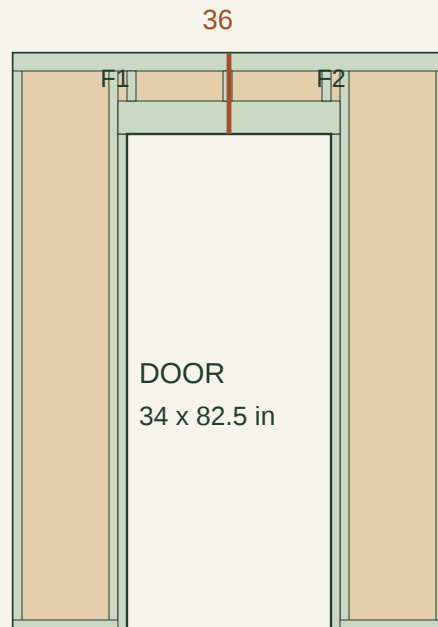
Confirm gable reuse and spares

O07 and O10 each have a nominal 19.375 x 96 in strip that can geometrically contain a rotated 72 x 15 in gable blank. Product orientation, edge support and the actual template still control reuse. Add replacement sheets or damage allowance to your reconciled quantity; ten is not a purchase instruction.

End walls: put the seam on the frame

Solid clay lines = chosen seams. Green bands = existing framing. Openings are not deducted from stock.

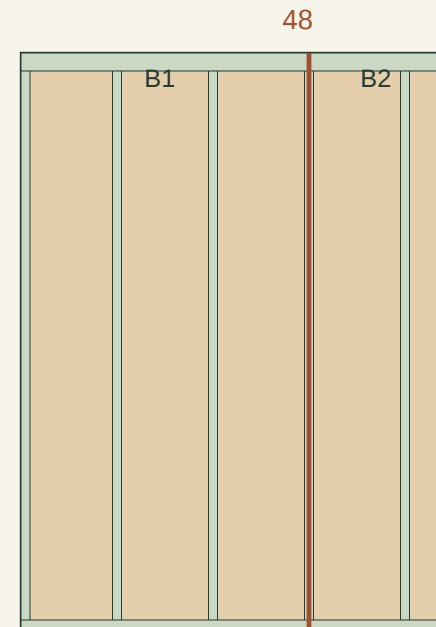
Front / human door



72 in wide / 96 in high

ZERO: left framing edge

Rear wall



72 in wide / 96 in high

ZERO: left framing edge

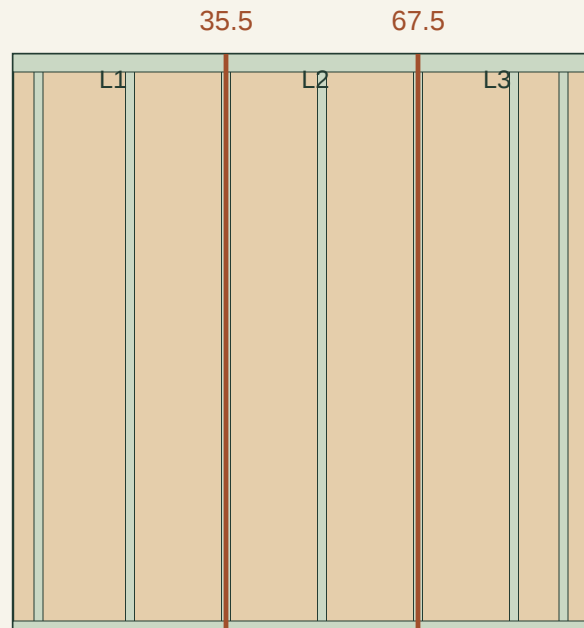
Front seam exists only above the door. Rear seam is at 48 in. Gables are separate templates.

Study v1.0.1 / Build v1.1.0 / Read wall and sheet IDs together. No vent locations or final edge fasteners specified.

Side walls: remember the corner offset

Solid clay lines = chosen seams. Green bands = existing framing. Openings are not deducted from stock.

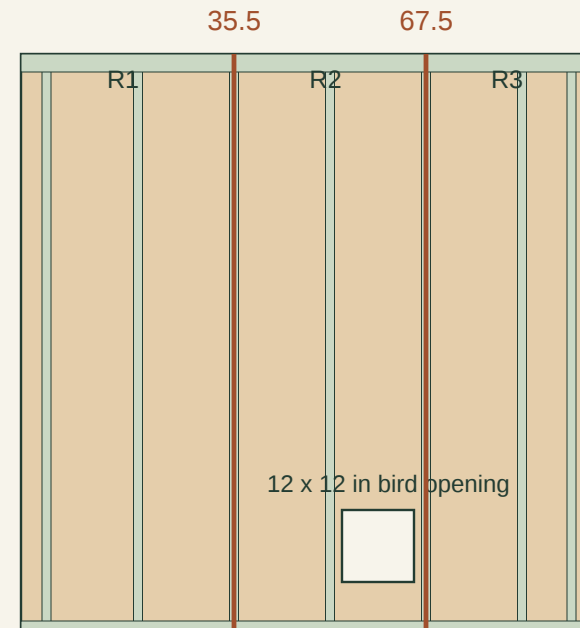
Left side



96 in wide / 96 in high

ZERO: front of whole coop

Shared right / bird door



96 in wide / 96 in high

ZERO: front of whole coop

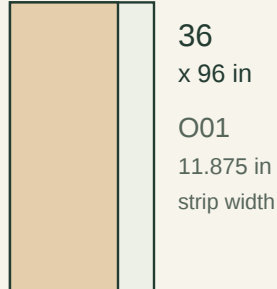
Side wall example: local stud center 32 + 3.5 corner offset = 35.5 in. A 48 in sheet joint misses it.

Study v1.0.1 / Build v1.1.0 / Read wall and sheet IDs together. No vent locations or final edge fasteners specified.

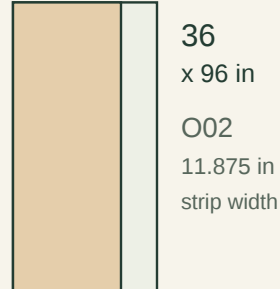
Ten sheets, with every main piece assigned

Main pieces: F front / B back / L left / R right. Pale strips are retained offcuts, not extra purchased sheets.

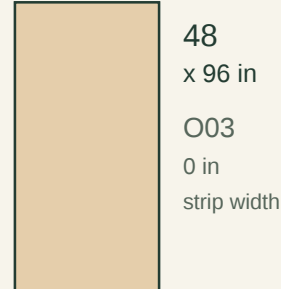
S01 / F1



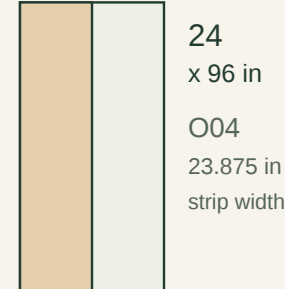
S02 / F2



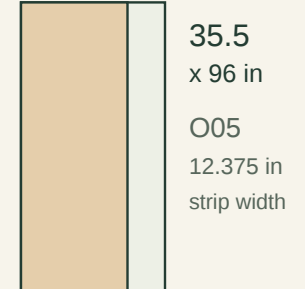
S03 / B1



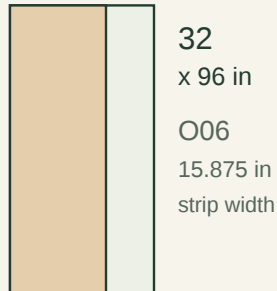
S04 / B2



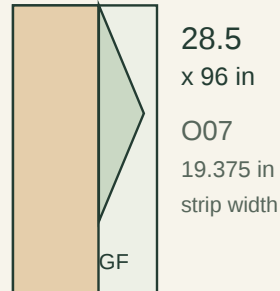
S05 / L1



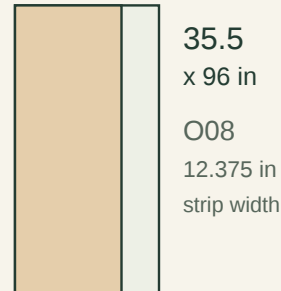
S06 / L2



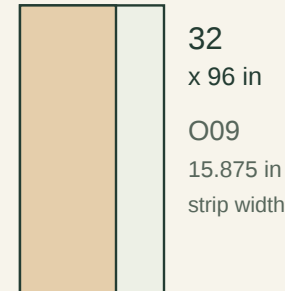
S07 / L3



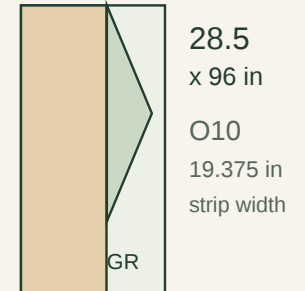
S08 / R1



S09 / R2



S10 / R3



GF / GR: candidate 72 x 15 in gable blanks in O07 / O10. Reuse needs product-orientation and support checks.

No waste percentage is assumed. Corner/perimeter changes, gable replacements and spare sheets are additional.

Sheet-to-wall allocation

All spans below are gross layout dimensions, before product joint gaps, perimeter changes or openings. Retained strip widths include one 1/8 in rip kerf; S03 is used at full width with no rip.

Sheet / piece	Face	X start	Nominal W x H (in)	Offcut W x 96 (in)
S01 / F1	Front / human door	0	36 x 96	O01: 11.875
S02 / F2	Front / human door	36	36 x 96	O02: 11.875
S03 / B1	Rear wall	0	48 x 96	O03: 0
S04 / B2	Rear wall	48	24 x 96	O04: 23.875
S05 / L1	Left side	0	35.5 x 96	O05: 12.375
S06 / L2	Left side	35.5	32 x 96	O06: 15.875
S07 / L3	Left side	67.5	28.5 x 96	O07: 19.375
S08 / R1	Shared right / bird door	0	35.5 x 96	O08: 12.375
S09 / R2	Shared right / bird door	35.5	32 x 96	O09: 15.875
S10 / R3	Shared right / bird door	67.5	28.5 x 96	O10: 19.375

Keep O07 and O10 for the two candidate gables. Door and vent cutouts are not used to justify a lower sheet count. This avoids depending on offcuts that may be damaged, too small or incorrectly oriented.

From frame marks to a supplier quote

S04 / Mark the frame before covering it

Square the walls and mark the seam stations shown for each face. On the side walls use the front of the whole coop as zero, then account for the 3.5 in corner offset. Photograph or record the actual supporting timber before it is hidden.

S08 / Label each sheet and keep the offcuts

Transfer the measured, product-adjusted panel outline onto its assigned S-number. Label F/B/L/R pieces and O-number offcuts before cutting. Keep openings out of the savings calculation until their cutouts are measured and undamaged.

S08 / Dry-fit one face, then close the quantity

Verify perimeter coverage and joint spacing on the first face, then record changes on the other faces. Fit the gable template to retained strips only after the material orientation and edge support are resolved.

S08 / Carry a reconciled M11 quantity into the quote

Record the chosen product, actual panel sizes, changed panel count, gable reuse/replacement and spare-sheet allowance in the quote notes. Change M11 only after that reconciliation. Keep M12 roof panels and M14 siding WRB separate.

Basis and related documents

Source geometry: Walk-In v1.1.0, B02 end walls and B03 side walls. APA M300 explains panel-spacing principles; APA E30X-WC covers wall construction. These sources do not approve this custom takeoff or resolve its open connection details.

[APA: panel spacing \(M300\)](#)

[APA: wall construction \(E30X-WC\)](#)

[Return to the wall study and quote entry](#)