

Lined hinged enclosure

N14 · V5 CANDIDATE 01 · ILLUSTRATED 01

18 × 18 × 24 inches

457.2 × 457.2 × 609.6 mm · bare case, width × depth × height



Maple exterior including roof, edges and opening reveals

A removable-pin door, removable screened roof and an uncut liner folded around the lower supports. The full exterior veneer is a conditional option; the interior remains coated wood above the liner.

Before construction: veneer supplier/balance approval, received hardware trials, prototype construction, physical tests and qualified review remain open. No physical or animal-use approval.

Read this before cutting

Receive and measure the actual stock and fittings, then complete the illustrated trials before dependent final cuts. These dimensions describe this lined enclosure. A different liner depth, hardware, wood thickness or finish system requires a recheck.

Measurement	Reference
Bare exterior	18 × 18 × 24 in (457.2 × 457.2 × 609.6 mm)
Veneered body reference	18.061 in (458.75 mm) × 18.061 in (458.75 mm) × 24.061 in (611.15 mm)
Clear box before supports / liner	16.56 × 16.03 × 22.56 in (420.62 × 407.16 × 573.02 mm); supports, liner, door parts and equipment reduce usable space
Bare opening	13.56 in (344.42 mm) × 17.06 in (433.32 mm)
Bare door	13.185 in (334.9 mm) × 16.685 in (423.8 mm) × 1 7/32 in (30.96 mm)
Finished reference gap	0.1265 in (3.21 mm) per edge; physically require at least 1/16 in (1.59 mm)
Maximum stack budget	0.046 in (1.17 mm) per face; nominal remaining gap 0.0955 in (2.43 mm)
Basin heights above bare floor	Fill 3 in (76.2 mm); clamp screws 3 1/4 in (82.55 mm); liner top 3 1/2 in (88.9 mm)
Service space	15 in (381 mm) forward plus the full swing sector; each pin lifts 3 1/8 in (79.38 mm), then forward

Measurements: mm means millimetres. Inches come first. Exact nonfractional mating cuts use decimals; fit them with actual gauges and shared marked strips. Coordinates use outside LEFT, FRONT and FLOOR UNDERSIDE unless an operation names a local part edge. The liner’s height datum is the bare floor TOP, 0.72 in (18.29 mm) above the outside floor underside.

Tools, terms and safe setup

Use a flat fully supporting bench, clamps, square, straightedge, tape, caliper, depth stops, marking knife and shared measuring strip. Cutting needs a supported saw setup, jigsaw, suitable router/chisel and a planer or a competent supplier to prepare the specified thicknesses. Follow the machine's minimum feed length; thickness wide stock before cutting small strips.

Prepare a drill/driver, countersink, 11/64 in (4.37 mm) wood clearance bit, starting 7/64 in (2.78 mm) pine pilot, actual-root-matched small pilots, metal bits, backing boards, snips, hacksaw and files. Use an acrylic-rated blade with full sheet support. Add a veneer scraper, held straightedge, cutting board and sharp knife for the finish option.

Wear eye/hearing protection; control wood dust and ventilate coatings. Protect hands when handling loose sharp mesh or steel. Keep hands, gloves and clothing away from rotating machinery. Secure the work and waste; never hold a small piece in your hand while drilling.

Term	Plain meaning
Cleat / support	Solid wood strip receiving screw threads
Lamination	Two layers glued together, with staggered joints
Pilot / clearance	Thread guide hole in the receiver / larger hole through the first part
Countersink	Shallow cone allowing a flat screw head to sit flush
Datum / story stick	Named measuring edge / marked strip shared between matching parts
Kerf	The material removed by the saw blade
PSA	Pressure-sensitive adhesive supplied on the veneer
EPDM	Ethylene propylene diene monomer rubber; plain cushions and a separate pond liner
RH / mil	Relative humidity / one thousandth of an inch

Build sequence

1. OP01 · Prove the veneer system before final cuts
2. OP02 · Set up the full-height hinge trial
3. OP03 · Test the hinge screws and pin release
4. OP04 · Prove the keyless latch on scraps
5. OP05 · Make the restraint-window trial
6. OP06 · Rehearse restraint access and removal
7. OP07 · Build a glazing test sample
8. OP08 · Accept the cured pane fit
9. OP09 · Prepare the wide stock
10. OP10 · Allocate clamps and solid supports
11. OP11 · Cut the walls and side inlets
12. OP12 · Cut the roof and backed rear window
13. OP13 · Laminate the fixed front frame
14. OP14 · Fit and glue the thinner door
15. OP15 · Fasten the door layers
16. OP16 · Fit the side and rear wood supports
17. OP17 · Dry-assemble the case
18. OP18 · Tie the floor and removable roof
19. OP19 · Fit the pane pocket and caps
20. OP20 · Drill caps and prepare cushions
21. OP21 · Fit the upper and lower stops
22. OP22 · Block the door and cut pin lanes
23. OP23 · Seat and fasten the actual hinges
24. OP24 · Rehearse door removal with the roof on
25. OP25 · Capture both side screens

Build sequence · continued

26. OP26 · Recess the roof screen retainers
27. OP27 · Fit the two steel support strips
28. OP28 · Bolt and screw the roof assembly
29. OP29 · Fit the keyless swivel latch
30. OP30 · Strip the dry fit and prepare for coating
31. OP31 · Preseal the veneer substrates
32. OP32 · Cut and label the veneer pieces
33. OP33 · Veneer the edges and opening reveals
34. OP34 · Veneer the broad outside faces
35. OP35 · Apply the final coat and wait for full cure
36. OP36 · Measure the finished door clearances
37. OP37 · Reassemble the shell and pane
38. OP38 · Refit the door and inspect every edge
39. OP39 · Fold the uncut liner into the basin
40. OP40 · Mark fill, liner and clamp heights
41. OP41 · Fasten the six removable liner clamps
42. OP42 · Perform the shallow liner test
43. OP43 · Place the enclosure on full support
44. OP44 · Connect and recheck the restraint
45. OP45 · Check any screen-top fixture
46. OP46 · Set heat, wiring and controls
47. OP47 · Commission empty and record acceptance

Materials and hardware

Package quantities are purchase units. Four pine boards include one reserved trial board; two square-pine lengths supply the cleats. Current direct links match this BOM. No affiliate collection has been verified as a complete cart for this revision.

Item / current link	Model and purchase	Check / remaining input
PLY · Birch sanded plywood project panel Direct product listing Reference 0.72 in (18.29 mm); usable 47.75 × 23.75 in (1212.85 × 603.25 mm).	128220 Buy 3 package(s) one panel	Nominal 3/4 in; actual listing 0.72 in. Layout assumes 47.75 × 23.75 in clear panels; measure received stock.
PINE · RELIABILT clear S4S radiata pine board Direct product listing 0.75 × 5.5 × 96 in (19.05 × 139.7 × 2438.4 mm). S4S means surfaced on four sides.	L51244618 Buy 4 package(s) one board	Listing 0.75 × 5.5 × 96 in; three production boards plus one trial board. Plane the required layer thicknesses.
PINE-SQUARE · RELIABILT clear S4S solid pine square board Direct product listing 1.5 × 1.5 × 96 in (38.1 × 38.1 × 2438.4 mm).	2X2 8 RPC Buy 2 package(s) one board	Listing actual 1.5 × 1.5 × 96 in; two lengths.
ACRYLIC · OPTIX clear acrylic sheet Direct product listing 0.22 × 24 × 48 in (5.59 × 609.6 × 1219.2 mm).	21232102 Buy 1 package(s) one sheet	OPTIX 21232102, 0.22 × 24 × 48 in. Measure actual sheet and trial the complete cured glazing pocket.
MESH · Acorn Hardware galvanized steel hardware cloth Direct product listing 1/2 in (12.7 mm) aperture; 36 × 120 in (914.4 × 3048 mm).	HC23610 Buy 1 package(s) one roll	HC23610, 19-gauge, 1/2 in aperture, 36 × 120 in. Verify wire crossings and containment for intended use.

Materials and hardware · continued

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Item / current link	Model and purchase	Check / remaining input
HINGE · McMaster-Carr removable-pin surface hinges Direct product listing 3 in (76.2 mm) high; 2.5 in (63.5 mm) open; 0.080 in (2.03 mm) leaf.	1798A21 Buy 1 package(s) two hinges / one pair	1798A21 removable-pin hinge, nominal 3 in length, 2.5 in open width, 0.080 in leaf. Actual receiving trial controls seats, holes and pin travel.
RESTRAINT · Hillman Simple Mount furniture anti-tip kit Direct product listing	9976524 Buy 1 package(s) 11-piece kit: two brackets, four screws, two clevis pins, two cotters, one cable	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
GLUE · Titebond III Ultimate Wood Adhesive, 16 fl oz Direct product listing 16 US fluid ounces (473 mL).	1414 Buy 1 package(s) one bottle	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
FINISH · Varathane Triple Thick satin brush-on water-based polyurethane Direct product listing Two US quarts (1.89 L).	284473-7482 Buy 1 package(s) two one-quart cans	284473-7482, two 1-quart containers. Manufacturer guidance: 60–90°F (15.6–32.2°C), RH below 85%, 7 days full cure at 70°F (21.1°C)/50% RH. Exposure and veneer bond compatibility are separate holds.
SCREW-SHELL · Hillman #8 × 1¾" stainless flat-head wood screws Direct product listing Length 1 3/4 in (44.45 mm).	35312 Buy 2 package(s) 40 screws	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.

Materials and hardware · continued

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Item / current link	Model and purchase	Check / remaining input
SCREW-LAMINATION · Hillman #8 × 1" zinc-plated flat-head wood screws Direct product listing Length 1 in (25.4 mm).	35053 Buy 1 package(s) 100 screws	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
SCREW-RETENTION · Power Pro #8 × 1¼" stainless flat-head wood screws Direct product listing Length 1 1/4 in (31.75 mm).	42487 Buy 1 package(s) 45 screws	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
SCREW-GLAZING · Hillman #4 × 1" zinc-plated flat-head wood screws Direct product listing Length 1 in (25.4 mm).	40005 Buy 1 package(s) 100 screws	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
GASKET · USA Industrials plain closed-cell EPDM strip Direct product listing 1/16 × 3/8 × 120 in (1.59 × 9.53 × 3048 mm).	ZUSAESR-S-25 Buy 1 package(s) one 120-inch strip	ZUSAESR-S-25 plain EPDM 1/16 × 3/8 in × 10 ft. Trial actual compression.
LINER · 45 mil EPDM pond liner, 5' × 5' Direct product listing 5 × 5 ft (1.524 × 1.524 m); 45 mil = 0.045 in (1.14 mm).	5 × 5 45mil EPDM Buy 1 package(s) one 5' × 5' sheet	5 × 5 ft, 45-mil EPDM. Exact thickness, received defects and proposed cleaning/exposure need acceptance.

Materials and hardware · continued

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Item / current link	Model and purchase	Check / remaining input
UNDERLAY · Aquascape heavy-duty pond underlayment, 5' × 10' Direct product listing 5 × 10 ft (1.524 × 3.048 m).	42135 Buy 1 package(s) one 5' × 10' piece	Current manufacturer page confirms 5 × 10 ft size option. Retained 42135 identity needs confirmation on the delivered package.
H04 · National Hardware black swivel-staple safety hasp, 3-1/4 inch Direct product listing Nominal 3 1/4 in (82.55 mm) hasp.	N305-979 Buy 1 package(s) 1 per package	N305-979. Manufacturer nominal drawing reviewed; physical trial controls final seats and holes.
H05 · Everbilt #10 × 5/8-inch zinc-plated Phillips flat-head wood screws, 12-pack Direct product listing Length 5/8 in (15.88 mm).	825391 Buy 1 package(s) 12 per package	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
L15 · Hillman steel flat, 1 × 1/8 × 36 inches Direct product listing 1 × 1/8 × 36 in (25.4 × 3.18 × 914.4 mm).	11653 Buy 1 package(s) 1 per package	11653, solid steel flat 1 × 1/8 in × 36 in. Measure thickness before pocketing.
L16 · Everbilt 1/4-20 × 2-inch zinc-plated round-head machine screws Direct product listing 1/4 in (6.35 mm) diameter × 2 in (50.8 mm) long; retain the specified 20-thread-per-inch fastener.	831561 Buy 2 package(s) 3 per package	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.

Materials and hardware · continued

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Item / current link	Model and purchase	Check / remaining input
L17 · Hillman 1/4-inch zinc-plated flat washers, 3/4-inch OD × 1/16 inch thick Direct product listing 1/4 in (6.35 mm) fastener; outside diameter 3/4 in (19.05 mm), thickness 1/16 in (1.59 mm), subject to receipt.	270055 Buy 8 package(s) 1 per package	270055, 1/4 in washer, one per package; buy eight. Actual outer diameter/thickness must be measured before bearing-seat cuts.
L18 · Hillman 1/4-20 zinc-plated Keps nuts Direct product listing Matches the specified 1/4-20 bolt; 1/4 in (6.35 mm) nominal diameter.	880483 Buy 2 package(s) 2 per package	Current listing model and package identity match this purchase schedule; verify delivered count, actual dimensions and local fulfillment.
VENEER · One selected species, 48 x 96 in factory PSA sheet Direct product listing 48 × 96 in (1219.2 × 2438.4 mm).	Select exact species / standard / 4 x 8 ft / 3M PSA Buy 1 package(s) one sheet	Choose one species / 4 × 8 ft / factory 3M PSA. Special-order, non-returnable backing. Exact selected SKU, bond/dwell and panel balance remain receiving holds.

Cut list

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
P01 · Solid floor	18 1/8 in (460.38 mm) × 18 1/8 in (460.38 mm)	18 in (457.2 mm) × 18 in (457.2 mm) × 0.72 in (18.29 mm)
P02 · Removable roof	18 1/8 in (460.38 mm) × 18 1/8 in (460.38 mm)	18 in (457.2 mm) × 18 in (457.2 mm) × 0.72 in (18.29 mm)
P03L · Left wall	22.685 in (576.2 mm) × 18 1/8 in (460.38 mm)	22.56 in (573.02 mm) × 18 in (457.2 mm) × 0.72 in (18.29 mm)
P03R · Right wall	22.685 in (576.2 mm) × 18 1/8 in (460.38 mm)	22.56 in (573.02 mm) × 18 in (457.2 mm) × 0.72 in (18.29 mm)
P04 · Back wall	22.685 in (576.2 mm) × 16.685 in (423.8 mm)	22.56 in (573.02 mm) × 16.56 in (420.62 mm) × 0.72 in (18.29 mm)
FAL · Fixed frame front layer · left upright	22.685 in (576.2 mm) × 1 5/8 in (41.27 mm)	22.56 in (573.02 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
FAR · Fixed frame front layer · right upright	22.685 in (576.2 mm) × 1 5/8 in (41.27 mm)	22.56 in (573.02 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
FAB · Fixed frame front layer · bottom rail	13.685 in (347.6 mm) × 4 1/8 in (104.77 mm)	13.56 in (344.42 mm) × 4 in (101.6 mm) × 5/8 in (15.88 mm)
FAT · Fixed frame front layer · top rail	13.685 in (347.6 mm) × 1 5/8 in (41.27 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
FBL · Fixed frame rear layer · left upright	17.185 in (436.5 mm) × 1 5/8 in (41.27 mm)	17.06 in (433.32 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
FBR · Fixed frame rear layer · right upright	17.185 in (436.5 mm) × 1 5/8 in (41.27 mm)	17.06 in (433.32 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
FBB · Fixed frame rear layer · bottom rail	16.685 in (423.8 mm) × 4 1/8 in (104.77 mm)	16.56 in (420.62 mm) × 4 in (101.6 mm) × 5/8 in (15.88 mm)

Cut list · continued

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Part	Rough length × width	Finished length × width × thickness
FBT · Fixed frame rear layer · top rail	16.685 in (423.8 mm) × 1 5/8 in (41.27 mm)	16.56 in (420.62 mm) × 1 1/2 in (38.1 mm) × 5/8 in (15.88 mm)
DAL · Door front layer · left upright	16.81 in (426.97 mm) × 1 13/16 in (46.04 mm)	16.685 in (423.8 mm) × 1 11/16 in (42.86 mm) × 39/64 in (15.48 mm)
DAR · Door front layer · right upright	16.81 in (426.97 mm) × 1 7/8 in (47.62 mm)	16.685 in (423.8 mm) × 1 3/4 in (44.45 mm) × 39/64 in (15.48 mm)
DAB · Door front layer · bottom rail	9.8725 in (250.76 mm) × 1 5/16 in (33.34 mm)	9.7475 in (247.59 mm) × 1 3/16 in (30.16 mm) × 39/64 in (15.48 mm)
DAT · Door front layer · top rail	9.8725 in (250.76 mm) × 1 5/16 in (33.34 mm)	9.7475 in (247.59 mm) × 1 3/16 in (30.16 mm) × 39/64 in (15.48 mm)
DBL · Door rear layer · left upright	14.435 in (366.65 mm) × 1 13/16 in (46.04 mm)	14.31 in (363.47 mm) × 1 11/16 in (42.86 mm) × 39/64 in (15.48 mm)
DBR · Door rear layer · right upright	14.435 in (366.65 mm) × 1 7/8 in (47.62 mm)	14.31 in (363.47 mm) × 1 3/4 in (44.45 mm) × 39/64 in (15.48 mm)
DBB · Door rear layer · bottom rail	13.31 in (338.07 mm) × 1 5/16 in (33.34 mm)	13.185 in (334.9 mm) × 1 3/16 in (30.16 mm) × 39/64 in (15.48 mm)
DBT · Door rear layer · top rail	13.31 in (338.07 mm) × 1 5/16 in (33.34 mm)	13.185 in (334.9 mm) × 1 3/16 in (30.16 mm) × 39/64 in (15.48 mm)
G01 · Removable acrylic pane	15.185 in (385.7 mm) × 10.6225 in (269.81 mm)	15.06 in (382.52 mm) × 10.4975 in (266.64 mm) × 0.22 in (5.59 mm)
QL · Pane pocket spacer · left upright	15.435 in (392.05 mm) × 1/2 in (12.7 mm)	15.31 in (388.87 mm) × 3/8 in (9.52 mm) × 5/16 in (7.94 mm)
QR · Pane pocket spacer · right upright	15.435 in (392.05 mm) × 1/2 in (12.7 mm)	15.31 in (388.87 mm) × 3/8 in (9.52 mm) × 5/16 in (7.94 mm)

Cut list • continued

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Part	Rough length × width	Finished length × width × thickness
QB · Pane pocket spacer · bottom rail	11.6225 in (295.21 mm) × 7/16 in (11.11 mm)	11.4975 in (292.04 mm) × 5/16 in (7.94 mm) × 5/16 in (7.94 mm)
QT · Pane pocket spacer · top rail	11.6225 in (295.21 mm) × 7/16 in (11.11 mm)	11.4975 in (292.04 mm) × 5/16 in (7.94 mm) × 5/16 in (7.94 mm)
BL · Removable pane cap · left upright	14.685 in (373 mm) × 7/8 in (22.22 mm)	14.56 in (369.82 mm) × 3/4 in (19.05 mm) × 1/4 in (6.35 mm)
BR · Removable pane cap · right upright	14.685 in (373 mm) × 7/8 in (22.22 mm)	14.56 in (369.82 mm) × 3/4 in (19.05 mm) × 1/4 in (6.35 mm)
BB · Removable pane cap · bottom rail	11.6225 in (295.21 mm) × 13/16 in (20.64 mm)	11.4975 in (292.04 mm) × 11/16 in (17.46 mm) × 1/4 in (6.35 mm)
BT · Removable pane cap · top rail	11.6225 in (295.21 mm) × 13/16 in (20.64 mm)	11.4975 in (292.04 mm) × 11/16 in (17.46 mm) × 1/4 in (6.35 mm)
CLV · Left rear upright support	19.685 in (500 mm) × 1 1/2 in (38.1 mm)	19.56 in (496.82 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CLB · Left lower support	16.155 in (410.34 mm) × 1 1/2 in (38.1 mm)	16.03 in (407.16 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CLT · Left upper support	16.155 in (410.34 mm) × 1 1/2 in (38.1 mm)	16.03 in (407.16 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CRV · Right rear upright support	19.685 in (500 mm) × 1 1/2 in (38.1 mm)	19.56 in (496.82 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CRB · Right lower support	16.155 in (410.34 mm) × 1 1/2 in (38.1 mm)	16.03 in (407.16 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CRT · Right upper support	16.155 in (410.34 mm) × 1 1/2 in (38.1 mm)	16.03 in (407.16 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)

Cut list • continued

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Part	Rough length × width	Finished length × width × thickness
CBB · Rear lower cross support	14 in (355.6 mm) × 1 1/2 in (38.1 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CFB · Front lower cross support	14 in (355.6 mm) × 1 1/2 in (38.1 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CBT · Rear upper cross support	14 in (355.6 mm) × 1 1/2 in (38.1 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
CFT · Front upper cross support	14 in (355.6 mm) × 1 1/2 in (38.1 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 1 1/2 in (38.1 mm)
S01 · Lower door stop	10 1/8 in (257.18 mm) × 1 1/8 in (28.57 mm)	10 in (254 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
S02 · Upper door stop	10 1/8 in (257.18 mm) × 7/8 in (22.22 mm)	10 in (254 mm) × 3/4 in (19.05 mm) × 1/2 in (12.7 mm)
VLB · Left inlet retainer · bottom	8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm)	8 in (203.2 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VLT · Left inlet retainer · top	8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm)	8 in (203.2 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VLSF · Left inlet retainer · front end	2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm)	2 in (50.8 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VLSB · Left inlet retainer · rear end	2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm)	2 in (50.8 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VRB · Right inlet retainer · bottom	8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm)	8 in (203.2 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VRT · Right inlet retainer · top	8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm)	8 in (203.2 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)

Cut list · continued

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Part	Rough length × width	Finished length × width × thickness
VRSF · Right inlet retainer · front end	2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm)	2 in (50.8 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
VRSB · Right inlet retainer · rear end	2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm)	2 in (50.8 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
RF · Roof mesh retainer · front	13 5/8 in (346.07 mm) × 1 1/8 in (28.57 mm)	13 1/2 in (342.9 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
RB · Roof mesh retainer · rear	13 5/8 in (346.07 mm) × 1 1/8 in (28.57 mm)	13 1/2 in (342.9 mm) × 1 in (25.4 mm) × 3/4 in (19.05 mm)
RL · Roof mesh retainer · left	10 1/8 in (257.18 mm) × 7/8 in (22.22 mm)	10 in (254 mm) × 3/4 in (19.05 mm) × 3/4 in (19.05 mm)
RR · Roof mesh retainer · right	10 1/8 in (257.18 mm) × 7/8 in (22.22 mm)	10 in (254 mm) × 3/4 in (19.05 mm) × 3/4 in (19.05 mm)
LB1 · Left steel roof strip	11 1/2 in (292.1 mm) × 1 in (25.4 mm)	11 1/2 in (292.1 mm) × 1 in (25.4 mm) × 1/8 in (3.17 mm)
LB2 · Right steel roof strip	11 1/2 in (292.1 mm) × 1 in (25.4 mm)	11 1/2 in (292.1 mm) × 1 in (25.4 mm) × 1/8 in (3.17 mm)
LCL · Removable liner clamp · left	13.745 in (349.12 mm) × 5/8 in (15.88 mm)	13.62 in (345.95 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)
LCR · Removable liner clamp · right	13.745 in (349.12 mm) × 5/8 in (15.88 mm)	13.62 in (345.95 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)
LCF · Removable liner clamp · front	16.525 in (419.73 mm) × 5/8 in (15.88 mm)	16.4 in (416.56 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)
LCB · Removable liner clamp · rear	13.525 in (343.53 mm) × 5/8 in (15.88 mm)	13.4 in (340.36 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)

Cut list · continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
LCPL · Removable liner clamp · left rear post	1.465 in (37.21 mm) × 5/8 in (15.88 mm)	1.34 in (34.04 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)
LCPR · Removable liner clamp · right rear post	1.465 in (37.21 mm) × 5/8 in (15.88 mm)	1.34 in (34.04 mm) × 1/2 in (12.7 mm) × 3/8 in (9.52 mm)
V-floor-under · Veneer: floor-under	19.061 in (484.15 mm) × 18.561 in (471.45 mm)	18.061 in (458.75 mm) × 18.061 in (458.75 mm) × 0.0305 in (0.77 mm)
V-roof-top · Veneer: roof-top	19.061 in (484.15 mm) × 18.561 in (471.45 mm)	18.061 in (458.75 mm) × 18.061 in (458.75 mm) × 0.0305 in (0.77 mm)
V-P01-front · Veneer: P01-front	19.061 in (484.15 mm) × 1.22 in (30.99 mm)	18.061 in (458.75 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P01-back · Veneer: P01-back	19.061 in (484.15 mm) × 1.22 in (30.99 mm)	18.061 in (458.75 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P01-left · Veneer: P01-left	19 in (482.6 mm) × 1.22 in (30.99 mm)	18 in (457.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P01-right · Veneer: P01-right	19 in (482.6 mm) × 1.22 in (30.99 mm)	18 in (457.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P02-front · Veneer: P02-front	19.061 in (484.15 mm) × 1.22 in (30.99 mm)	18.061 in (458.75 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P02-back · Veneer: P02-back	19.061 in (484.15 mm) × 1.22 in (30.99 mm)	18.061 in (458.75 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P02-left · Veneer: P02-left	19 in (482.6 mm) × 1.22 in (30.99 mm)	18 in (457.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P02-right · Veneer: P02-right	19 in (482.6 mm) × 1.22 in (30.99 mm)	18 in (457.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)

Cut list • continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
V-P03L-outside · Veneer: P03L-outside	23.56 in (598.42 mm) × 18 1/2 in (469.9 mm)	22.56 in (573.02 mm) × 18 in (457.2 mm) × 0.0305 in (0.77 mm)
V-P03L-front · Veneer: P03L-front	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)	22.56 in (573.02 mm) × 0.7505 in (19.06 mm) × 0.0305 in (0.77 mm)
V-P03L-back · Veneer: P03L-back	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)	22.56 in (573.02 mm) × 0.7505 in (19.06 mm) × 0.0305 in (0.77 mm)
V-P03L-vent-near · Veneer: P03L-vent-near	2.939 in (74.65 mm) × 1.22 in (30.99 mm)	1.939 in (49.25 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03L-vent-far · Veneer: P03L-vent-far	2.939 in (74.65 mm) × 1.22 in (30.99 mm)	1.939 in (49.25 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03L-vent-bottom · Veneer: P03L-vent-bottom	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03L-vent-top · Veneer: P03L-vent-top	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03R-outside · Veneer: P03R-outside	23.56 in (598.42 mm) × 18 1/2 in (469.9 mm)	22.56 in (573.02 mm) × 18 in (457.2 mm) × 0.0305 in (0.77 mm)
V-P03R-front · Veneer: P03R-front	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)	22.56 in (573.02 mm) × 0.7505 in (19.06 mm) × 0.0305 in (0.77 mm)
V-P03R-back · Veneer: P03R-back	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)	22.56 in (573.02 mm) × 0.7505 in (19.06 mm) × 0.0305 in (0.77 mm)
V-P03R-vent-near · Veneer: P03R-vent-near	2.939 in (74.65 mm) × 1.22 in (30.99 mm)	1.939 in (49.25 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03R-vent-far · Veneer: P03R-vent-far	2.939 in (74.65 mm) × 1.22 in (30.99 mm)	1.939 in (49.25 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)

Cut list • continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
V-P03R-vent-bottom · Veneer: P03R-vent-bottom	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-P03R-vent-top · Veneer: P03R-vent-top	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-back-outside · Veneer: back-outside	23.56 in (598.42 mm) × 17.06 in (433.32 mm)	22.56 in (573.02 mm) × 16.56 in (420.62 mm) × 0.0305 in (0.77 mm)
V-restraint-left · Veneer: restraint-left	2.189 in (55.6 mm) × 1.22 in (30.99 mm)	1.189 in (30.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-restraint-right · Veneer: restraint-right	2.189 in (55.6 mm) × 1.22 in (30.99 mm)	1.189 in (30.2 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-restraint-lower · Veneer: restraint-lower	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-restraint-upper · Veneer: restraint-upper	7 in (177.8 mm) × 1.22 in (30.99 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-roof-reveal-left · Veneer: roof-reveal-left	10.939 in (277.85 mm) × 1.22 in (30.99 mm)	9.939 in (252.45 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-roof-reveal-right · Veneer: roof-reveal-right	10.939 in (277.85 mm) × 1.22 in (30.99 mm)	9.939 in (252.45 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-roof-reveal-front · Veneer: roof-reveal-front	13 in (330.2 mm) × 1.22 in (30.99 mm)	12 in (304.8 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-roof-reveal-back · Veneer: roof-reveal-back	13 in (330.2 mm) × 1.22 in (30.99 mm)	12 in (304.8 mm) × 0.72 in (18.29 mm) × 0.0305 in (0.77 mm)
V-FAL-face · Veneer: FAL-face	23.56 in (598.42 mm) × 2 in (50.8 mm)	22.56 in (573.02 mm) × 1 1/2 in (38.1 mm) × 0.0305 in (0.77 mm)

Cut list · continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
V-FAR-face · Veneer: FAR-face	23.56 in (598.42 mm) × 2 in (50.8 mm)	22.56 in (573.02 mm) × 1 1/2 in (38.1 mm) × 0.0305 in (0.77 mm)
V-FAB-face · Veneer: FAB-face	14.56 in (369.82 mm) × 4 1/2 in (114.3 mm)	13.56 in (344.42 mm) × 4 in (101.6 mm) × 0.0305 in (0.77 mm)
V-FAT-face · Veneer: FAT-face	14.56 in (369.82 mm) × 2 in (50.8 mm)	13.56 in (344.42 mm) × 1 1/2 in (38.1 mm) × 0.0305 in (0.77 mm)
V-DAL-face · Veneer: DAL-face	17.685 in (449.2 mm) × 2 3/16 in (55.56 mm)	16.685 in (423.8 mm) × 1 11/16 in (42.86 mm) × 0.0305 in (0.77 mm)
V-DAR-face · Veneer: DAR-face	17.685 in (449.2 mm) × 2 1/4 in (57.15 mm)	16.685 in (423.8 mm) × 1 3/4 in (44.45 mm) × 0.0305 in (0.77 mm)
V-DAB-face · Veneer: DAB-face	10.7475 in (272.99 mm) × 1 11/16 in (42.86 mm)	9.7475 in (247.59 mm) × 1 3/16 in (30.16 mm) × 0.0305 in (0.77 mm)
V-DAT-face · Veneer: DAT-face	10.7475 in (272.99 mm) × 1 11/16 in (42.86 mm)	9.7475 in (247.59 mm) × 1 3/16 in (30.16 mm) × 0.0305 in (0.77 mm)
V-FAL-opening · Veneer: FAL-opening	18.06 in (458.72 mm) × 1 3/4 in (44.45 mm)	17.06 in (433.32 mm) × 1 1/4 in (31.75 mm) × 0.0305 in (0.77 mm)
V-FAR-opening · Veneer: FAR-opening	18.06 in (458.72 mm) × 1 3/4 in (44.45 mm)	17.06 in (433.32 mm) × 1 1/4 in (31.75 mm) × 0.0305 in (0.77 mm)
V-FAB-opening · Veneer: FAB-opening	14.499 in (368.27 mm) × 1 3/4 in (44.45 mm)	13.499 in (342.87 mm) × 1 1/4 in (31.75 mm) × 0.0305 in (0.77 mm)
V-FAT-opening · Veneer: FAT-opening	14.499 in (368.27 mm) × 1 3/4 in (44.45 mm)	13.499 in (342.87 mm) × 1 1/4 in (31.75 mm) × 0.0305 in (0.77 mm)
V-DAL-outer · Veneer: DAL-outer	17.685 in (449.2 mm) × 1 23/32 in (43.66 mm)	16.685 in (423.8 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)

Cut list · continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
V-DAR-outer · Veneer: DAR-outer	17.685 in (449.2 mm) × 1 23/32 in (43.66 mm)	16.685 in (423.8 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAB-outer · Veneer: DAB-outer	14.246 in (361.85 mm) × 1 23/32 in (43.66 mm)	13.246 in (336.45 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAT-outer · Veneer: DAT-outer	14.246 in (361.85 mm) × 1 23/32 in (43.66 mm)	13.246 in (336.45 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAL-window · Veneer: DAL-window	15.249 in (387.32 mm) × 1 23/32 in (43.66 mm)	14.249 in (361.92 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAR-window · Veneer: DAR-window	15.249 in (387.32 mm) × 1 23/32 in (43.66 mm)	14.249 in (361.92 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAB-window · Veneer: DAB-window	10.7475 in (272.99 mm) × 1 23/32 in (43.66 mm)	9.7475 in (247.59 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
V-DAT-window · Veneer: DAT-window	10.7475 in (272.99 mm) × 1 23/32 in (43.66 mm)	9.7475 in (247.59 mm) × 1 7/32 in (30.96 mm) × 0.0305 in (0.77 mm)
M01 · Roof screen blank	13 in (330.2 mm) × 11 1/2 in (292.1 mm)	13 in (330.2 mm) × 11 1/2 in (292.1 mm) × 0.0836 in (2.12 mm)
M02L · Left inlet screen blank	7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm)	7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm) × 0.0836 in (2.12 mm)
M02R · Right inlet screen blank	7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm)	7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm) × 0.0836 in (2.12 mm)
LINER-BLANK · Uncut-corner EPDM basin blank	36 in (914.4 mm) × 36 in (914.4 mm)	36 in (914.4 mm) × 36 in (914.4 mm) × 0.045 in (1.14 mm)
UNDERLAY-BLANK · Protective underlay basin blank	36 in (914.4 mm) × 36 in (914.4 mm)	36 in (914.4 mm) × 36 in (914.4 mm) × Measure received material

Cut list • continued

One of each ID. Length follows the grain in the allocation. Rough blanks include trimming; finished values are the reference geometry. Use named actual-stock checkpoints for mating cuts. V-parts list the complete 0.0305 in (0.775 mm) modeled surface stack, not purchased veneer thickness.

Part	Rough length × width	Finished length × width × thickness
EFB · Plain pane cushion EFB	10.6225 in (269.81 mm) × 3/8 in (9.52 mm)	10.4975 in (266.64 mm) × 3/8 in (9.52 mm) × 1/16 in (1.59 mm)
EFT · Plain pane cushion EFT	10.6225 in (269.81 mm) × 3/8 in (9.52 mm)	10.4975 in (266.64 mm) × 3/8 in (9.52 mm) × 1/16 in (1.59 mm)
EFL · Plain pane cushion EFL	14.435 in (366.65 mm) × 3/8 in (9.52 mm)	14.31 in (363.47 mm) × 3/8 in (9.52 mm) × 1/16 in (1.59 mm)
EFR · Plain pane cushion EFR	14.435 in (366.65 mm) × 3/8 in (9.52 mm)	14.31 in (363.47 mm) × 3/8 in (9.52 mm) × 1/16 in (1.59 mm)
ERB · Plain pane cushion ERB	10.6225 in (269.81 mm) × 3/8 in (9.52 mm)	10.4975 in (266.64 mm) × 1/4 in (6.35 mm) × 1/16 in (1.59 mm)
ERT · Plain pane cushion ERT	10.6225 in (269.81 mm) × 3/8 in (9.52 mm)	10.4975 in (266.64 mm) × 1/4 in (6.35 mm) × 1/16 in (1.59 mm)
ERL · Plain pane cushion ERL	14.685 in (373 mm) × 3/8 in (9.52 mm)	14.56 in (369.82 mm) × 1/4 in (6.35 mm) × 1/16 in (1.59 mm)
ERR · Plain pane cushion ERR	14.685 in (373 mm) × 3/8 in (9.52 mm)	14.56 in (369.82 mm) × 1/4 in (6.35 mm) × 1/16 in (1.59 mm)

PLY-1 · cutting layout

PLY-1 · rough blank allocation

47 3/4 in (1212.85 mm) × 23 3/4 in (603.25 mm) stock · grain along length



Trim 1/8 in (3.17 mm) at specified edges; separation / kerf 1/8 in (3.17 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Grain-fixed rough-blank allocation

Read the labeled rough dimensions in the cut list. The downloadable layout coordinates preserve the perimeter trim, blade kerf and grain direction. Use full support and a safe straight-cut sequence; replace defective stock rather than shortening parts.

PLY-2 · cutting layout

PLY-2 · rough blank allocation

47 3/4 in (1212.85 mm) × 23 3/4 in (603.25 mm) stock · grain along length



Trim 1/8 in (3.17 mm) at specified edges; separation / kerf 1/8 in (3.17 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Grain-fixed rough-blank allocation

Read the labeled rough dimensions in the cut list. The downloadable layout coordinates preserve the perimeter trim, blade kerf and grain direction. Use full support and a safe straight-cut sequence; replace defective stock rather than shortening parts.

PLY-3 · cutting layout

PLY-3 · rough blank allocation

47 3/4 in (1212.85 mm) × 23 3/4 in (603.25 mm) stock · grain along length



Trim 1/8 in (3.17 mm) at specified edges; separation / kerf 1/8 in (3.17 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

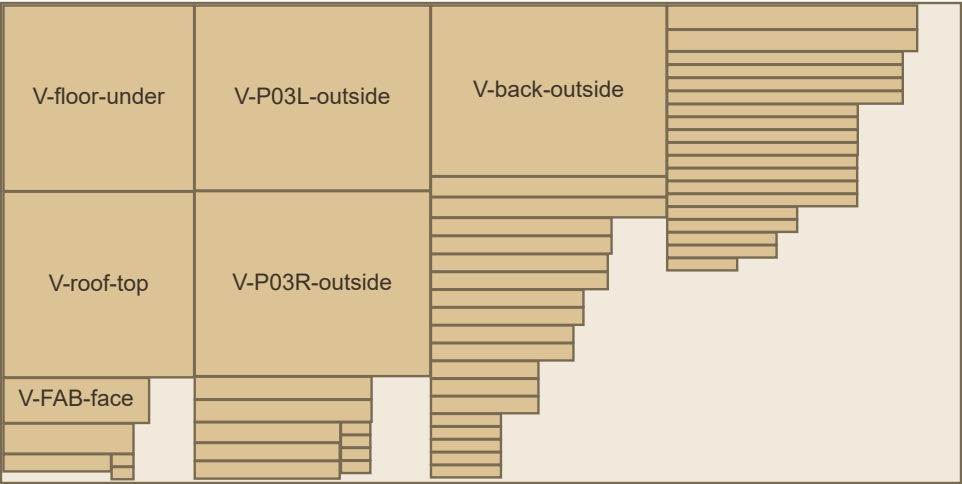
Grain-fixed rough-blank allocation

Read the labeled rough dimensions in the cut list. The downloadable layout coordinates preserve the perimeter trim, blade kerf and grain direction. Use full support and a safe straight-cut sequence; replace defective stock rather than shortening parts.

VENEER-1 · cutting layout

VENEER-1 · rough blank allocation

96 in (2438.4 mm) × 48 in (1219.2 mm) stock · grain along length



Trim 1/4 in (6.35 mm) at specified edges; separation / kerf 1/16 in (1.59 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Grain-fixed rough-blank allocation

Read the labeled rough dimensions in the cut list. The downloadable layout coordinates preserve the perimeter trim, blade kerf and grain direction. Use full support and a safe straight-cut sequence; replace defective stock rather than shortening parts.

Veneer sheet • exact blank locations

One 96 × 48 in (2438.4 × 1219.2 mm) sheet. X runs along the grain from the left; Y starts at the lower edge. These are rough rectangular blanks. Cutouts and final trimming follow the named part.

Part ID	Start X / Y	Rough length × width
V-floor-under	1/4 in (6.35 mm) / 1/4 in (6.35 mm)	19.061 in (484.15 mm) × 18.561 in (471.45 mm)
V-roof-top	1/4 in (6.35 mm) / 18.8735 in (479.39 mm)	19.061 in (484.15 mm) × 18.561 in (471.45 mm)
V-P03L-outside	19.3735 in (492.09 mm) / 1/4 in (6.35 mm)	23.56 in (598.42 mm) × 18 1/2 in (469.9 mm)
V-P03R-outside	19.3735 in (492.09 mm) / 18 13/16 in (477.84 mm)	23.56 in (598.42 mm) × 18 1/2 in (469.9 mm)
V-back-outside	42.996 in (1092.1 mm) / 1/4 in (6.35 mm)	23.56 in (598.42 mm) × 17.06 in (433.32 mm)
V-FAB-face	1/4 in (6.35 mm) / 37.497 in (952.42 mm)	14.56 in (369.82 mm) × 4 1/2 in (114.3 mm)
V-TRIAL-COUPON	1/4 in (6.35 mm) / 42.0595 in (1068.31 mm)	13 in (330.2 mm) × 3 in (76.2 mm)
V-TRIAL-DOOR	66.6185 in (1692.11 mm) / 1/4 in (6.35 mm)	25 in (635 mm) × 2 3/8 in (60.32 mm)
V-DAR-face	19.3735 in (492.09 mm) / 37 3/8 in (949.32 mm)	17.685 in (449.2 mm) × 2 1/4 in (57.15 mm)
V-DAL-face	19.3735 in (492.09 mm) / 39 11/16 in (1008.06 mm)	17.685 in (449.2 mm) × 2 3/16 in (55.56 mm)
V-TRIAL-FRAME	66.6185 in (1692.11 mm) / 2 11/16 in (68.26 mm)	25 in (635 mm) × 2 1/8 in (53.97 mm)
V-FAL-face	42.996 in (1092.1 mm) / 17.3725 in (441.26 mm)	23.56 in (598.42 mm) × 2 in (50.8 mm)
V-FAR-face	42.996 in (1092.1 mm) / 19.435 in (493.65 mm)	23.56 in (598.42 mm) × 2 in (50.8 mm)
V-FAT-face	19.3735 in (492.09 mm) / 41 15/16 in (1065.21 mm)	14.56 in (369.82 mm) × 2 in (50.8 mm)
V-FAL-opening	42.996 in (1092.1 mm) / 21.4975 in (546.04 mm)	18.06 in (458.72 mm) × 1 3/4 in (44.45 mm)
V-FAR-opening	42.996 in (1092.1 mm) / 23.31 in (592.07 mm)	18.06 in (458.72 mm) × 1 3/4 in (44.45 mm)

Keep grain parallel to X. Retain the 1/4 in (6.35 mm) perimeter and 1/16 in (1.59 mm) cut separation shown in the drawing. The three TRIAL blanks are reserved for receiving checks.

Veneer sheet • exact blank locations

One 96 × 48 in (2438.4 × 1219.2 mm) sheet. X runs along the grain from the left; Y starts at the lower edge. These are rough rectangular blanks. Cutouts and final trimming follow the named part.

Part ID	Start X / Y	Rough length × width
V-FAB-opening	19.3735 in (492.09 mm) / 44 in (1117.6 mm)	14.499 in (368.27 mm) × 1 3/4 in (44.45 mm)
V-FAT-opening	19.3735 in (492.09 mm) / 45 13/16 in (1163.64 mm)	14.499 in (368.27 mm) × 1 3/4 in (44.45 mm)
V-DAL-outer	42.996 in (1092.1 mm) / 25.1225 in (638.11 mm)	17.685 in (449.2 mm) × 1 23/32 in (43.66 mm)
V-DAR-outer	42.996 in (1092.1 mm) / 26.90375 in (683.36 mm)	17.685 in (449.2 mm) × 1 23/32 in (43.66 mm)
V-DAL-window	42.996 in (1092.1 mm) / 28.685 in (728.6 mm)	15.249 in (387.32 mm) × 1 23/32 in (43.66 mm)
V-DAR-window	42.996 in (1092.1 mm) / 30.46625 in (773.84 mm)	15.249 in (387.32 mm) × 1 23/32 in (43.66 mm)
V-DAB-outer	42.996 in (1092.1 mm) / 32.2475 in (819.09 mm)	14.246 in (361.85 mm) × 1 23/32 in (43.66 mm)
V-DAT-outer	42.996 in (1092.1 mm) / 34.02875 in (864.33 mm)	14.246 in (361.85 mm) × 1 23/32 in (43.66 mm)
V-DAB-window	1/4 in (6.35 mm) / 45.122 in (1146.1 mm)	10.7475 in (272.99 mm) × 1 23/32 in (43.66 mm)
V-DAT-window	42.996 in (1092.1 mm) / 35.81 in (909.57 mm)	10.7475 in (272.99 mm) × 1 23/32 in (43.66 mm)
V-DAB-face	42.996 in (1092.1 mm) / 37.59125 in (954.82 mm)	10.7475 in (272.99 mm) × 1 11/16 in (42.86 mm)
V-DAT-face	42.996 in (1092.1 mm) / 39.34125 in (999.27 mm)	10.7475 in (272.99 mm) × 1 11/16 in (42.86 mm)
V-P03L-front	66.6185 in (1692.11 mm) / 4 7/8 in (123.82 mm)	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)
V-P03L-back	66.6185 in (1692.11 mm) / 6.188 in (157.18 mm)	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)
V-P03R-front	66.6185 in (1692.11 mm) / 7.501 in (190.53 mm)	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)
V-P03R-back	66.6185 in (1692.11 mm) / 8.814 in (223.88 mm)	23.56 in (598.42 mm) × 1.2505 in (31.76 mm)

Keep grain parallel to X. Retain the 1/4 in (6.35 mm) perimeter and 1/16 in (1.59 mm) cut separation shown in the drawing. The three TRIAL blanks are reserved for receiving checks.

Veneer sheet · exact blank locations

One 96 × 48 in (2438.4 × 1219.2 mm) sheet. X runs along the grain from the left; Y starts at the lower edge. These are rough rectangular blanks. Cutouts and final trimming follow the named part.

Part ID	Start X / Y	Rough length × width
V-P01-front	66.6185 in (1692.11 mm) / 10.127 in (257.23 mm)	19.061 in (484.15 mm) × 1.22 in (30.99 mm)
V-P01-back	66.6185 in (1692.11 mm) / 11.4095 in (289.8 mm)	19.061 in (484.15 mm) × 1.22 in (30.99 mm)
V-P02-front	66.6185 in (1692.11 mm) / 12.692 in (322.38 mm)	19.061 in (484.15 mm) × 1.22 in (30.99 mm)
V-P02-back	66.6185 in (1692.11 mm) / 13.9745 in (354.95 mm)	19.061 in (484.15 mm) × 1.22 in (30.99 mm)
V-P01-left	66.6185 in (1692.11 mm) / 15.257 in (387.53 mm)	19 in (482.6 mm) × 1.22 in (30.99 mm)
V-P01-right	66.6185 in (1692.11 mm) / 16.5395 in (420.1 mm)	19 in (482.6 mm) × 1.22 in (30.99 mm)
V-P02-left	66.6185 in (1692.11 mm) / 17.822 in (452.68 mm)	19 in (482.6 mm) × 1.22 in (30.99 mm)
V-P02-right	66.6185 in (1692.11 mm) / 19.1045 in (485.25 mm)	19 in (482.6 mm) × 1.22 in (30.99 mm)
V-roof-reveal-front	66.6185 in (1692.11 mm) / 20.387 in (517.83 mm)	13 in (330.2 mm) × 1.22 in (30.99 mm)
V-roof-reveal-back	66.6185 in (1692.11 mm) / 21.6695 in (550.41 mm)	13 in (330.2 mm) × 1.22 in (30.99 mm)
V-roof-reveal-left	66.6185 in (1692.11 mm) / 22.952 in (582.98 mm)	10.939 in (277.85 mm) × 1.22 in (30.99 mm)
V-roof-reveal-right	66.6185 in (1692.11 mm) / 24.2345 in (615.56 mm)	10.939 in (277.85 mm) × 1.22 in (30.99 mm)
V-P03L-vent-bottom	42.996 in (1092.1 mm) / 41.09125 in (1043.72 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)
V-P03L-vent-top	42.996 in (1092.1 mm) / 42.37375 in (1076.29 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)
V-P03R-vent-bottom	42.996 in (1092.1 mm) / 43 21/32 in (1108.87 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)
V-P03R-vent-top	42.996 in (1092.1 mm) / 44.93875 in (1141.44 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)

Keep grain parallel to X. Retain the 1/4 in (6.35 mm) perimeter and 1/16 in (1.59 mm) cut separation shown in the drawing. The three TRIAL blanks are reserved for receiving checks.

Veneer sheet · exact blank locations

One 96 × 48 in (2438.4 × 1219.2 mm) sheet. X runs along the grain from the left; Y starts at the lower edge. These are rough rectangular blanks. Cutouts and final trimming follow the named part.

Part ID	Start X / Y	Rough length × width
V-restraint-lower	42.996 in (1092.1 mm) / 46.22125 in (1174.02 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)
V-restraint-upper	66.6185 in (1692.11 mm) / 25.517 in (648.13 mm)	7 in (177.8 mm) × 1.22 in (30.99 mm)
V-P03L-vent-near	33.996 in (863.5 mm) / 41 15/16 in (1065.21 mm)	2.939 in (74.65 mm) × 1.22 in (30.99 mm)
V-P03L-vent-far	33.996 in (863.5 mm) / 43.22 in (1097.79 mm)	2.939 in (74.65 mm) × 1.22 in (30.99 mm)
V-P03R-vent-near	33.996 in (863.5 mm) / 44.5025 in (1130.36 mm)	2.939 in (74.65 mm) × 1.22 in (30.99 mm)
V-P03R-vent-far	33.996 in (863.5 mm) / 45.785 in (1162.94 mm)	2.939 in (74.65 mm) × 1.22 in (30.99 mm)
V-restraint-left	11.06 in (280.92 mm) / 45.122 in (1146.1 mm)	2.189 in (55.6 mm) × 1.22 in (30.99 mm)
V-restraint-right	11.06 in (280.92 mm) / 46.4045 in (1178.67 mm)	2.189 in (55.6 mm) × 1.22 in (30.99 mm)

Keep grain parallel to X. Retain the 1/4 in (6.35 mm) perimeter and 1/16 in (1.59 mm) cut separation shown in the drawing. The three TRIAL blanks are reserved for receiving checks.

Stock allocation

Stock / diagram	Ordered rough allocations
PINE-F 96 in (2438.4 mm) × 5 1/2 in (139.7 mm)	FBB 16.685 in (423.8 mm) × 4 1/8 in (104.77 mm); FAB 13.685 in (347.6 mm) × 4 1/8 in (104.77 mm); FAL 22.685 in (576.2 mm) × 1 5/8 in (41.27 mm); FAR 22.685 in (576.2 mm) × 1 5/8 in (41.27 mm); FBL 17.185 in (436.5 mm) × 1 5/8 in (41.27 mm); FBR 17.185 in (436.5 mm) × 1 5/8 in (41.27 mm); FBT 16.685 in (423.8 mm) × 1 5/8 in (41.27 mm); FAT 13.685 in (347.6 mm) × 1 5/8 in (41.27 mm)
PINE-D 96 in (2438.4 mm) × 5 1/2 in (139.7 mm)	DAR 16.81 in (426.97 mm) × 1 7/8 in (47.62 mm); DBR 14.435 in (366.65 mm) × 1 7/8 in (47.62 mm); DAL 16.81 in (426.97 mm) × 1 13/16 in (46.04 mm); DBL 14.435 in (366.65 mm) × 1 13/16 in (46.04 mm); DBB 13.31 in (338.07 mm) × 1 5/16 in (33.34 mm); DBT 13.31 in (338.07 mm) × 1 5/16 in (33.34 mm); DAB 9.8725 in (250.76 mm) × 1 5/16 in (33.34 mm); DAT 9.8725 in (250.76 mm) × 1 5/16 in (33.34 mm)
PINE-RETAINERS 28 in (711.2 mm) × 5 1/2 in (139.7 mm)	RF 13 5/8 in (346.07 mm) × 1 1/8 in (28.57 mm); RB 13 5/8 in (346.07 mm) × 1 1/8 in (28.57 mm); S01 10 1/8 in (257.18 mm) × 1 1/8 in (28.57 mm); VLB 8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm); VLT 8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm); VRB 8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm); VRT 8 1/8 in (206.38 mm) × 1 1/8 in (28.57 mm); VLSF 2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm); VLSB 2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm); VRSF 2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm); VRSB 2 1/8 in (53.97 mm) × 1 1/8 in (28.57 mm); RL 10 1/8 in (257.18 mm) × 7/8 in (22.22 mm); RR 10 1/8 in (257.18 mm) × 7/8 in (22.22 mm)
PINE-SPACERS 16 in (406.4 mm) × 5 1/2 in (139.7 mm)	QL 15.435 in (392.05 mm) × 1/2 in (12.7 mm); QR 15.435 in (392.05 mm) × 1/2 in (12.7 mm); QB 11.6225 in (295.21 mm) × 7/16 in (11.11 mm); QT 11.6225 in (295.21 mm) × 7/16 in (11.11 mm)
PINE-CAPS 15 in (381 mm) × 5 1/2 in (139.7 mm)	BL 14.685 in (373 mm) × 7/8 in (22.22 mm); BR 14.685 in (373 mm) × 7/8 in (22.22 mm); BB 11.6225 in (295.21 mm) × 13/16 in (20.64 mm); BT 11.6225 in (295.21 mm) × 13/16 in (20.64 mm)

Broad board-three blanks are thickened while wide. Follow machine minimum feed lengths; do not feed the finished small strips. The full coordinate drawings in the ZIP show the sublayouts, trim and separation. For the single veneer sheet, keep all grain along the allocated length and reserve the labeled trial pieces.

Stock allocation · continued

Stock / diagram	Ordered rough allocations
PINE-STOP 12 1/2 in (317.5 mm) × 5 1/2 in (139.7 mm)	S02 10 1/8 in (257.18 mm) × 7/8 in (22.22 mm)
PINE-LINER-CLAMPS 18 in (457.2 mm) × 5 1/2 in (139.7 mm)	LCF 16.525 in (419.73 mm) × 5/8 in (15.88 mm); LCL 13.745 in (349.12 mm) × 5/8 in (15.88 mm); LCR 13.745 in (349.12 mm) × 5/8 in (15.88 mm); LCB 13.525 in (343.53 mm) × 5/8 in (15.88 mm); LCPL 1.465 in (37.21 mm) × 5/8 in (15.88 mm); LCPR 1.465 in (37.21 mm) × 5/8 in (15.88 mm)
PINE-3 96 in (2438.4 mm) × 5 1/2 in (139.7 mm)	RETAINERS 28 in (711.2 mm) × 5 1/2 in (139.7 mm); SPACERS 16 in (406.4 mm) × 5 1/2 in (139.7 mm); CAPS 15 in (381 mm) × 5 1/2 in (139.7 mm); STOP 12 1/2 in (317.5 mm) × 5 1/2 in (139.7 mm); LINER-CLAMPS 18 in (457.2 mm) × 5 1/2 in (139.7 mm)
PINE-TRIALS 96 in (2438.4 mm) × 5 1/2 in (139.7 mm)	TRIAL-glazing 12 in (304.8 mm) × 2 in (50.8 mm); TRIAL-door 24 in (609.6 mm) × 1 7/8 in (47.62 mm); TRIAL-hasp-door 12 in (304.8 mm) × 1 7/8 in (47.62 mm); TRIAL-fixed 24 in (609.6 mm) × 1 5/8 in (41.27 mm); TRIAL-hasp-fixed 12 in (304.8 mm) × 1 5/8 in (41.27 mm)
SQUARE-1 96 in (2438.4 mm) × 1 1/2 in (38.1 mm)	CLV 19.685 in (500 mm) × 1 1/2 in (38.1 mm); CLB 16.155 in (410.34 mm) × 1 1/2 in (38.1 mm); CRB 16.155 in (410.34 mm) × 1 1/2 in (38.1 mm); CBB 14 in (355.6 mm) × 1 1/2 in (38.1 mm); CBT 14 in (355.6 mm) × 1 1/2 in (38.1 mm)

Broad board-three blanks are thickened while wide. Follow machine minimum feed lengths; do not feed the finished small strips. The full coordinate drawings in the ZIP show the sublayouts, trim and separation. For the single veneer sheet, keep all grain along the allocated length and reserve the labeled trial pieces.

Stock allocation · continued

Stock / diagram	Ordered rough allocations
SQUARE-2 96 in (2438.4 mm) × 1 1/2 in (38.1 mm)	CRV 19.685 in (500 mm) × 1 1/2 in (38.1 mm); CLT 16.155 in (410.34 mm) × 1 1/2 in (38.1 mm); CRT 16.155 in (410.34 mm) × 1 1/2 in (38.1 mm); CFB 14 in (355.6 mm) × 1 1/2 in (38.1 mm); CFT 14 in (355.6 mm) × 1 1/2 in (38.1 mm)
GASKET 120 in (3048 mm) × 3/8 in (9.52 mm)	EFB 10.6225 in (269.81 mm) × 3/8 in (9.52 mm); EFT 10.6225 in (269.81 mm) × 3/8 in (9.52 mm); EFL 14.435 in (366.65 mm) × 3/8 in (9.52 mm); EFR 14.435 in (366.65 mm) × 3/8 in (9.52 mm); ERB 10.6225 in (269.81 mm) × 3/8 in (9.52 mm); ERT 10.6225 in (269.81 mm) × 3/8 in (9.52 mm); ERL 14.685 in (373 mm) × 3/8 in (9.52 mm); ERR 14.685 in (373 mm) × 3/8 in (9.52 mm)
ACRYLIC 48 in (1219.2 mm) × 24 in (609.6 mm)	G01 15.185 in (385.7 mm) × 10.6225 in (269.81 mm)
MESH 120 in (3048 mm) × 36 in (914.4 mm)	M01 13 in (330.2 mm) × 11 1/2 in (292.1 mm); M02L 7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm); M02R 7 1/2 in (190.5 mm) × 3 1/2 in (88.9 mm)
EPDM 60 in (1524 mm) × 60 in (1524 mm)	LINER-BLANK 36 in (914.4 mm) × 36 in (914.4 mm)

Broad board-three blanks are thickened while wide. Follow machine minimum feed lengths; do not feed the finished small strips. The full coordinate drawings in the ZIP show the sublayouts, trim and separation. For the single veneer sheet, keep all grain along the allocated length and reserve the labeled trial pieces.

Stock allocation · continued

Stock / diagram	Ordered rough allocations
UNDERLAY 120 in (3048 mm) × 60 in (1524 mm)	UNDERLAY-BLANK 36 in (914.4 mm) × 36 in (914.4 mm)
STEEL 36 in (914.4 mm) × 1 in (25.4 mm)	LB1 11 1/2 in (292.1 mm) × 1 in (25.4 mm); LB2 11 1/2 in (292.1 mm) × 1 in (25.4 mm)

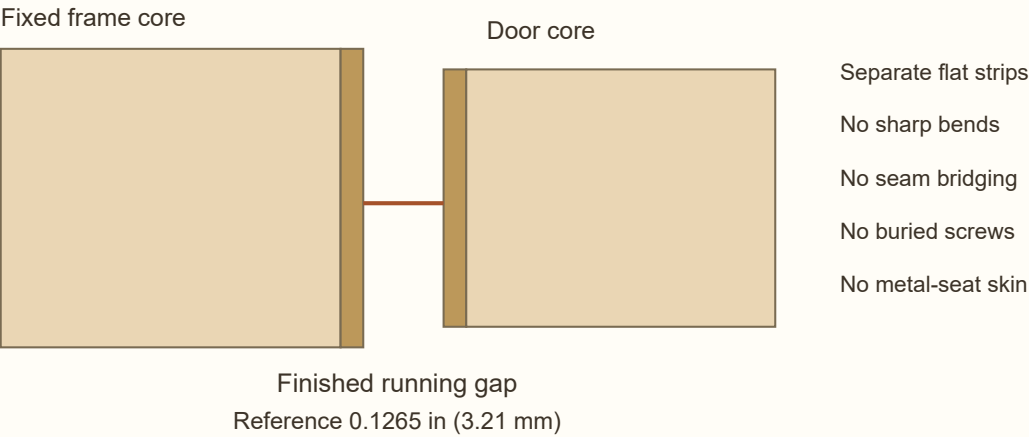
Broad board-three blanks are thickessed while wide. Follow machine minimum feed lengths; do not feed the finished small strips. The full coordinate drawings in the ZIP show the sublayouts, trim and separation. For the single veneer sheet, keep all grain along the allocated length and reserve the labeled trial pieces.

OP01 · Prove the veneer system before final cuts

Parts: Chosen veneer; trial board and plywood offcuts

Before you begin: This conditional veneer system is not cleared for fabrication until these inputs are resolved.

Full exterior veneer · enlarged clearance detail



Bare gaps: 3/16 in (4.76 mm) on all four sides. Each maximum stack: 0.046 in (1.17 mm).
Require at least 1/16 in (1.59 mm) ACTUAL finished running gap and the supplier-approved bond trial.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Prove the veneer system before final cuts

1. Choose maple, white oak or walnut with the exact factory-applied 3M pressure-sensitive adhesive (PSA) backing. A finish-picture choice alone is not a product approval. Read the supplier instructions and get confirmation for presealed plywood and pine, one-sided door/panel balance, coated edges, cleaning and intended humidity.
2. Use the fourth pine board for full-height hinge and door-edge trials; also reserve a panel offcut for a wide bond/flatness trial. Apply the complete proposed preseal, veneer, adhesive and topcoat system. Measure the cured stack with a caliper at several points; maximum 0.046 in (1.17 mm). The picture model uses 0.0305 in (0.77 mm).
3. Obtain the actual adhesive pressure/dwell instructions and acceptance criteria. Check bond, lifting edges and flatness through the proposed exposure. Do not invent a dwell time or proceed when supplier guidance or the full-size trial is unresolved.

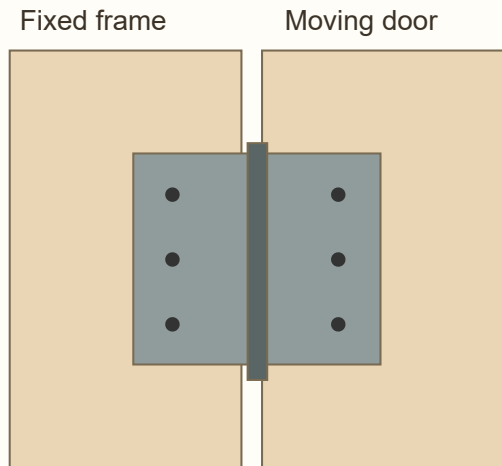
Check before continuing: Record product, backing, total cured thickness, application/dwell instructions and accepted balance trial.

OP02 · Set up the full-height hinge trial

Parts: FAL and DAL trial layers; McMaster 1798A21 pair

Before you begin: Use full-height matching wood. Support the moving trial leaf.

Removable-pin hinge · nominal front view



Two hinges; pin heads upward
 3 in (76.2 mm) nominal height
 Centers 7 1/2 in (190.5 mm) apart
 Trace actual leaves and holes.
 Fixed seat: 1/32 in (0.79 mm)
 Both leaf backs lie flat.
 Bare gap: 3/16 in (4.76 mm)

Schematic, not a drilling template. Metal seats and pin lanes stay free of veneer.
 Use the complete coated trial; keep screw heads flush and pin axes straight.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Set up the full-height hinge trial

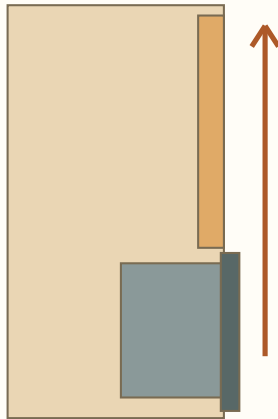
1. Use one pair of McMaster 1798A21 removable-pin surface hinges and twelve Hillman 35053 #8 × 1 in (25.4 mm) flat-head screws from the existing box. Set aside the hinge package screws. Drawing: 3 in (76.2 mm) high, 2 1/2 in (63.5 mm) open, leaf about 5/64 in (1.98 mm) thick, 3/8 in (9.52 mm) barrel and 1/4 in (6.35 mm) pin.
2. On full-height matching frame/door offcuts, reproduce the 3/16 in (4.76 mm) bare hinge gap and 1/32 in (0.79 mm) door setback. Trace the actual fixed leaves and rout/chisel flat 1/32 in (0.79 mm)-deep face seats. Clamp both leaf backs on the same plane, barrels outside, pin heads up, axes straight and centres 7 1/2 in (190.5 mm) apart. No edge mortises. Add the selected cured veneer system to both trial edges. Leave the traced metal seats and pin lanes uncovered by veneer.

Check before continuing: Both hinge backs bear flat; axes straight and centers 7 1/2 in (190.5 mm) apart.

OP03 · Test the hinge screws and pin release

Parts: Hinges; twelve Hillman 35053 screws

Door service · lift until free, then move forward



Support the complete door throughout.

1. Release the hasp. Remove upper pin first.
2. Lift 3 1/8 in (79.38 mm), then forward.
3. Repeat for lower pin; move door clear.
4. Refit lower pin first, then upper.

Lane: 3/16 wide × 1/16 deep × 3 3/8 in long
(4.76 × 1.59 × 85.73 mm); do not veneer.

Do not pull a freed pin upward into the header.

Front schematic; the pin moves forward after it clears the knuckle. Rehearse with the roof on.

Leave at least 1/32 in (0.79 mm) actual head clearance; exact lane heights are in the station reference.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Test the hinge screws and pin release

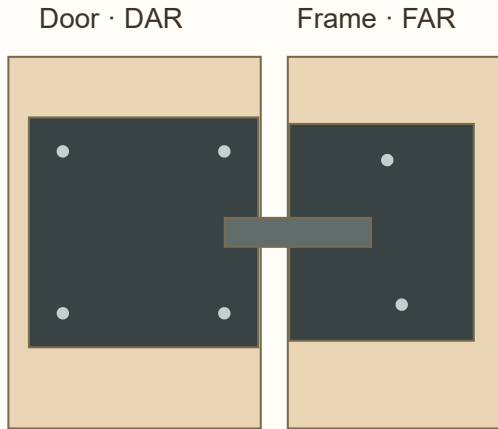
1. Transfer actual holes. Start with 7/64 in (2.78 mm) pine pilots, checking actual roots and a trial drive. Stop at 31/32 in (24.61 mm) from the seated wood face including the point. Require flush heads without metal alteration, at least 1/4 in (6.35 mm) back cover and no splitting/stripping. Check this on the test assembly before drilling the door.
2. Finish the trial mating wood, fully cure and refit. Require free closed-to-95° movement, no leaf/head/wood contact and at least 1/16 in (1.59 mm) finished perimeter running clearance and 1/32 in (0.79 mm) retainer-to-stop clearance. Remove upper pin then lower with the leaf supported; reproduce the pin-head clearance lanes and the 3 1/8 in (79.38 mm) upward-then-forward removal path in the hinge operations on the trial. The nominal barrel-to-barrel gap is 4 1/2 in (114.3 mm). Correct wrong hardware, rocking seats or proud heads before final cuts.

Check before continuing: Full 0–95° swing, required clearances and upper-then-lower pin removal pass on fully cured trials.

OP04 · Prove the keyless latch on scraps

Parts: FAR/DAR trial pieces; National N305-979; seven Everbilt 825391 screws

Keyless closure · full metal backing on both uprights



- Square swivel plate on the door
- Narrow hinged base on the frame
- Whole plates bear on bare wood.
- Trace actual seats and holes.
- Turn swivel, then lift flap clear.
- Do not trim the latch-side upright.

Height datum: 13 in (330.2 mm) above floor underside

Nominal location illustration; use the accepted actual N305-979 assembly as the template.
Keep each hole at least 1/4 in (6.35 mm) from wood edges and other screw shafts.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Prove the keyless latch on scraps

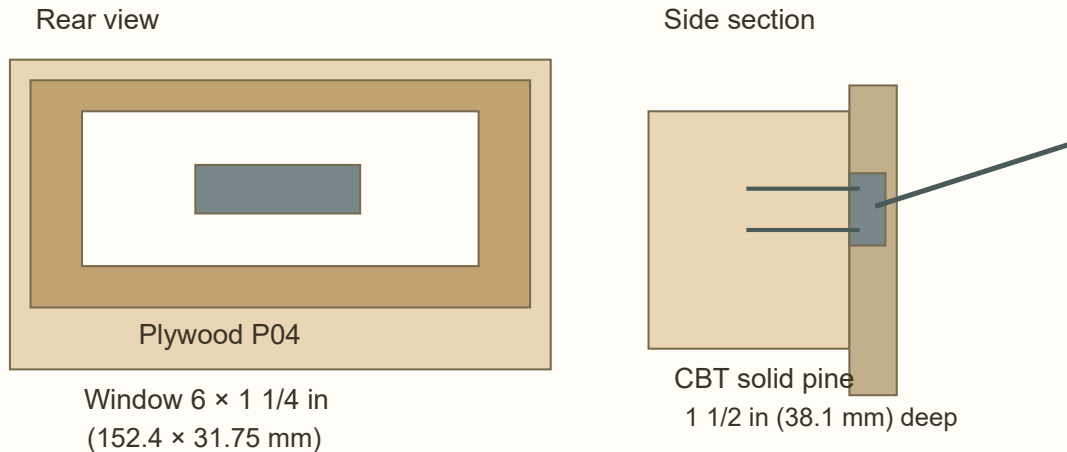
1. Receive one National Hardware N305-979 swivel-staple hasp and seven separate Everbilt 825391 #10 × 5/8 in (15.88 mm) flat-head screws. Set aside any longer supplied screws. On matching offcuts, reproduce a 1 1/2 in (38.1 mm) fixed upright beside a 1 3/4 in (44.45 mm) latch-side moving upright, with a 3/16 in (4.76 mm) gap and the door face set back 1/32 in (0.79 mm).
2. Put the narrow hinged base on the fixed upright and the square swivel plate on the wider door upright. Trace and cut a flat 1/32 in (0.79 mm) face seat under the fixed base only, bringing the two mounting backs onto the same plane. Both entire plates must bear on wood. Use the actual parts as templates.
3. Keep actual hole centres at least 1/4 in (6.35 mm) from wood edges and other screw shafts. Test the #10 root-matched pilot, screw head seating and stopped depth on the scrap; leave at least 1/2 in (12.7 mm) wood behind the tips. Do not alter metal holes or countersinks.
4. Turn the swivel to align with the slot, lift the flap clear, then open the door scrap. Close the flap and turn the swivel across the slot to secure it by hand. Repeat on fully cured scrap. No key is needed; a padlock is optional secondary security and is not included.

Check before continuing: Coated hinge/hasp trials, complete restraint-kit access and cured glazing test sample accepted before dependent work.

OP05 · Make the restraint-window trial

Parts: Plywood offcut; square pine; Hillman 9976524 kit

Rear restraint · opening backed by continuous CBT



Remove both accessible furniture screws; bring the complete bracket outward for service. Actual kit controls screw holes, driver and cable access. Never cut the solid CBT backing.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Make the restraint-window trial

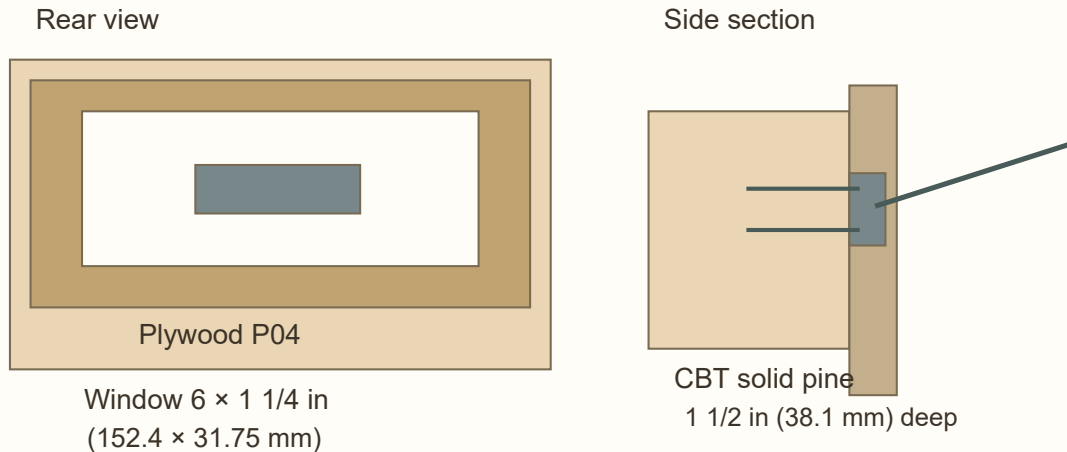
1. Select one Hillman 9976524 kit. Bench-assemble its furniture bracket, cable eye, clevis and cotter. Make a 6 in (152.4 mm) × 1 1/4 in (31.75 mm) window in an offcut of the actual plywood clamped over 1 1/2 in (38.1 mm) square pine. This reproduces the exterior recess before any final cut.
2. Set the bracket long axis horizontally. Its entire base must fit a 5 1/2 in (139.7 mm) × 1 in (25.4 mm) band centred on the window; screw centres must stay at least 3/8 in (9.52 mm) from the pine's top/bottom edges. Transfer actual holes and trial the supplied two 5/8 in (15.88 mm) furniture screws with root-matched pilots, stopped at 5/8 in (15.88 mm) maximum including the point. Pine beyond each tip remains at least 7/8 in (22.22 mm).

Check before continuing: Bracket fits the bounded window and screws enter solid pine.

OP06 · Rehearse restraint access and removal

Parts: Complete trial bracket, cable and retainers

Rear restraint · opening backed by continuous CBT



Remove both accessible furniture screws; bring the complete bracket outward for service. Actual kit controls screw holes, driver and cable access. Never cut the solid CBT backing.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Rehearse restraint access and removal

1. Require flat full bearing, firm screws and straight driver access to both heads through the window. The preassembled bracket must enter/leave the recess. Cable, clevis and cotter must clear its edges; retain at least 1/8 in (3.17 mm) cable clearance through the intended route. Prove this before cutting P04.
2. For service, support the shell, release the wall end, remove both accessible furniture screws and bring the bracket outside before withdrawing its clevis. Pin withdrawal inside the recess is not required. If the exact actual kit cannot pass this scrap fit, correct orientation/identity and obtain its supported solid-frame fit before cutting; do not enlarge the window arbitrarily.

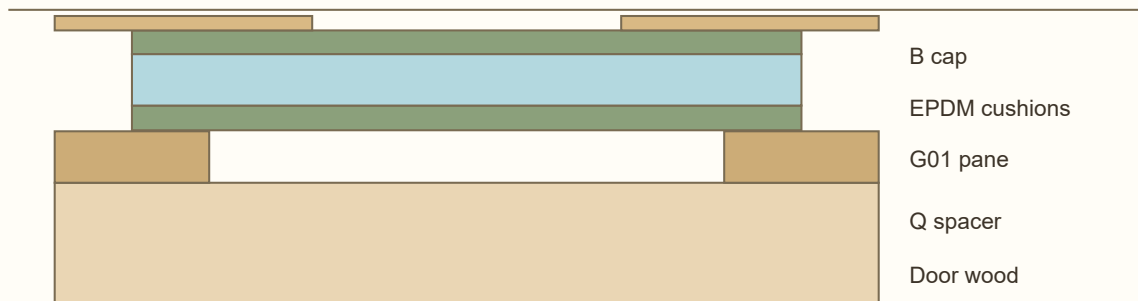
Check before continuing: Driver, cable and complete bracket fit without enlarging the specified opening.

OP07 · Build a glazing test sample

Parts: Actual acrylic, EPDM cushions, Q spacer, B cap and door offcut

Before you begin: Finish the sample exactly as the final pane pocket.

Glazing coupon · schematic section through pocket



1. Start with the specified Q depth; coat and fully cure the complete sample.
2. Hand-seat caps on hard lands; no pane bow, hard points or rattle.
3. Record the accepted actual pocket depth; do not force the pane with screws.

Schematic is enlarged; the exact side section is in the specification. Acrylic reference 0.220 in (5.59 mm). Plain 1/16 in (1.59 mm) EPDM on each face; actual compression is accepted by the cured sample.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Build a glazing test sample

1. Before cutting final Q spacers or gluing them to the door, make a small complete glazing test sample from the actual pane, plain EPDM, door offcut, spacer and cap. Start with a 5/16 in (7.94 mm) spacer. Use the same glue, coating surfaces and full cure as the finished door.
2. Measure the finished test pocket after the coating cures. Start with 5/16 in (7.94 mm) spacers, the actual acrylic sold as 0.22 in (5.59 mm) thick, and one 1/16 in (1.59 mm) cushion on each pane face. The cushions compress as the caps seat against the wood. Judge the fit by the flat, quiet pane and free edge movement in the next step; do not use screw force to bend the pane.

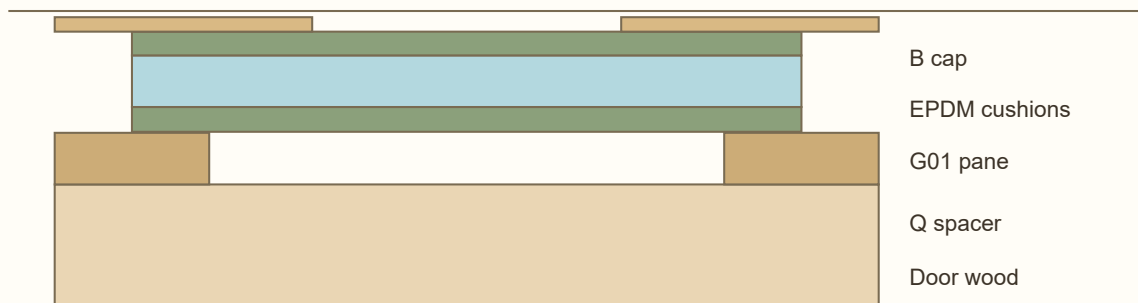
Check before continuing: Record the fully cured pocket and actual pane/cushion thickness.

Required wait: Complete the glue and coating waits before judging the fit.

OP08 · Accept the cured pane fit

Parts: Cured glazing sample

Glazing coupon · schematic section through pocket



1. Start with the specified Q depth; coat and fully cure the complete sample.
2. Hand-seat caps on hard lands; no pane bow, hard points or rattle.
3. Record the accepted actual pocket depth; do not force the pane with screws.

Schematic is enlarged; the exact side section is in the specification. Acrylic reference 0.220 in (5.59 mm). Plain 1/16 in (1.59 mm) EPDM on each face; actual compression is accepted by the cured sample.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Accept the cured pane fit

1. Hand-seat the cap on its hard wood lands. The actual pane must stay flat, quiet and free to move at its edges. First correct wrong materials, overlapping strips, proud fasteners or uneven lands. If it still bows or rattles, do not commit the spacer depth: obtain the cushion/pane maker's fitting advice and prove the corrected test sample. Never solve it by extra screw force.
2. Record measured pane thickness, strip thickness, cured pocket and the accepted spacer setting on a marked measuring strip. Retain the test sample for final assembly. This trial comes before the pane-retainer operations and before final spacer thicknessing.

Check before continuing: Cap rests on hard wood lands; pane remains flat, quiet and free at its edges.

OP09 · Prepare the wide stock

Parts: Three production pine boards; fourth trial board; plywood

Before you begin: Follow the planer's minimum feed size; do not feed short finished strips.

PINE-3 · rough blank allocation

96 in (2438.4 mm) × 5 1/2 in (139.7 mm) stock · grain along length

RETAINERS	SPACERS	CAPS	STOP	LINER-CLAMPS	
-----------	---------	------	------	--------------	--

Trim 1/4 in (6.35 mm) at specified edges; separation / kerf 1/8 in (3.17 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Prepare the wide stock

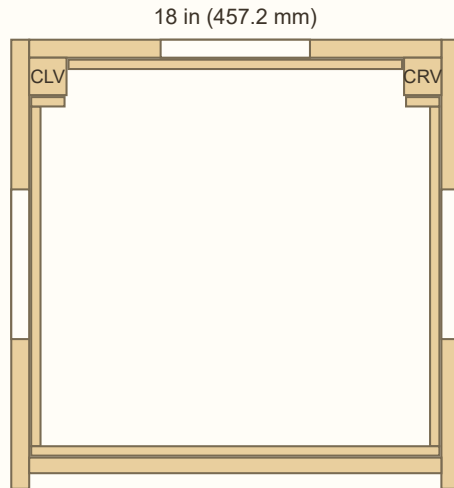
1. Measure the actual plywood thickness at its corners and centre. It is sold as nominal 3/4 in (19.05 mm); use the actual offcuts to fit the joining parts. Allow 1/4 in (6.35 mm) to square each board end and 1/8 in (3.17 mm) for each saw cut. Keep the blade on the waste side of the line.
2. Use one flat 3/4 in (19.05 mm) × 5 1/2 in (139.7 mm) × 96 in (2438.4 mm) pine board for the fixed frame and one for the door. Keep each board wide and long while planing: 5/8 in (15.88 mm) for fixed frame, 39/64 in (15.48 mm) for door. The door rear stays aligned with the stops; its front face sits 1/32 in (0.79 mm) behind the fixed-frame front. Complete the actual hinge, keyless hasp and restraint trials in the receiving trials before dependent seats, windows or final holes. Reserve a fourth matching board for the full-height hinge/veneer trial, hasp and glazing samples.
3. Board 3 wide blanks: 28 in (711.2 mm) at 3/4 in (19.05 mm) thick for screen strips and S01; 16 in (406.4 mm) at the test sample-proven spacer thickness (nominally 5/16 in (7.94 mm)) for Q spacers; 15 in (381 mm) at 1/4 in (6.35 mm) for B caps; 12 1/2 in (317.5 mm) at 1/2 in (12.7 mm) for S02. Follow planer minimum feed length; never feed short or narrow finished strips. Rip only after thicknessing.

Check before continuing: Stock received, marked and thicknessed before narrow strips are cut.

OP10 · Allocate clamps and solid supports

Parts: Six liner clamps; ten square-pine supports

Six removable liner clamps · plan above the basin



All 18 screws above fill

Clamps: $\frac{3}{8} \times \frac{1}{2}$ in
(9.53 × 12.7 mm)

Pilot stop includes bit tip

At least $\frac{1}{8}$ in (3.18 mm)
wood beyond actual tips

Fit lengths to slack folds

Fold behind and around the rear uprights; short clamps LCPL / LCPR secure their room faces.
Do not glue clamps or slit the liner corners. Release clamps and roof for liner replacement.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Allocate clamps and solid supports

1. From board 3, reserve an 18 in (457.2 mm) long blank for the six liner clamps. Keep it $5 \frac{1}{2}$ in (139.7 mm) wide while planing it to $\frac{3}{8}$ in (9.52 mm) thick. Cut four $\frac{1}{2}$ in (12.7 mm) wide strips, allowing $\frac{1}{8}$ in (3.17 mm) for each saw cut. Strip 1: LCF about $16 \frac{7}{16}$ in (417.51 mm). Strips 2 and 3: one LCL/LCR about $13 \frac{5}{8}$ in (346.07 mm) and one LCPL/LCPR about $1 \frac{3}{8}$ in (34.92 mm) from each. Strip 4: LCB about $13 \frac{7}{16}$ in (341.31 mm). Leave the cut lines and trim to the actual lined corners. Drill the short upright clamps while attached to longer stock, then cut them free over backing.
2. Cut the two square-pine boards using the labelled lengths under Cut list and stock allocation. Keep matching parts together. Leave the four cross supports 14 in (355.6 mm) long until you can mark their finished length from the assembled gap. Retain offcuts for screw and finish tests.

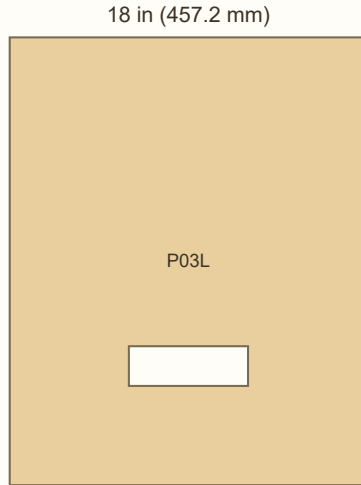
Check before continuing: Leave cross supports as 14 in (355.6 mm) blanks until the assembled gap can be marked.

OP11 · Cut the walls and side inlets

Parts: P01 floor, P02 roof, P03L/P03R walls, P04 back

Before you begin: Support both the workpiece and waste; keep the blade on the waste side.

Wall openings · same lower-edge datum on both sides



Side inlet

6 × 2 in
(152.4 × 50.8 mm)

Front marks: 6 and 12 in
(152.4 / 304.8 mm)

Lower-edge marks: 5 and 7 in
(127 / 177.8 mm)

P01 floor: no opening

P03L and P03R are mirror placements of the same cut. Support panel and waste on the bench.
Panel height is field-fitted between actual floor and roof; nominal reference 22.56 in (573.02 mm).

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Cut the walls and side inlets

1. Cut the floor and roof 18 in (457.2 mm) square. Start each side at 18 in (457.2 mm) deep × about 22 9/16 in (573.09 mm) high, and the back at about 16 9/16 in (420.69 mm) wide × 22 9/16 in (573.09 mm) high. Fit the sides between the actual floor and roof within the 24 in (609.6 mm) overall height; fit the back between the sides. Label both sides and match them using one stop or marked measuring strip.
2. On each side, mark 6 in (152.4 mm) and 12 in (304.8 mm) from the front edge, then 5 in (127 mm) and 7 in (177.8 mm) from its lower cut edge. Join these marks for a 6 in (152.4 mm) × 2 in (50.8 mm) inlet. Keep substrate at or below 3 in (76.2 mm) above the bare plywood floor reference edge, leaving 2 in (50.8 mm) beneath these inlets and 1/2 in (12.7 mm) of liner above the fill.

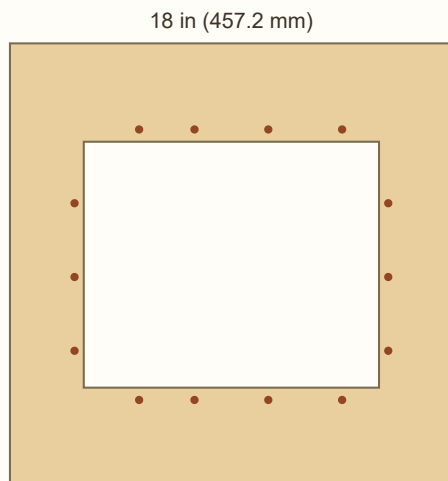
Check before continuing: Matched wall heights; two inlets referenced from the side-panel lower edges.

OP12 · Cut the roof and backed rear window

Parts: P02 roof; P04 back

Before you begin: The floor stays solid. The restraint trial must pass before P04 is cut.

Roof opening · TOP reference, FRONT toward the bottom



Opening: 12 × 10 in
(304.8 × 254 mm)

Left marks: 3 and 15 in
(76.2 / 381 mm)

Front marks: 4 and 14 in
(101.6 / 355.6 mm)

Keep roof removable

P04 rear window: 6 × 1 1/4 in (152.4 × 31.75 mm), centered; top 1/8 in below back top.
Never cut the CBT backing support. Actual restraint trial controls final window acceptance.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Cut the roof and backed rear window

1. On P02, mark 3 in (76.2 mm) and 15 in (381 mm) from its left edge and 4 in (101.6 mm) and 14 in (355.6 mm) from its front edge. This makes the 12 in (304.8 mm) × 10 in (254 mm) roof opening. Keep P01 solid. Clamp panels flat on sacrificial support, drill starter holes inside waste, cut to the lines and smooth the edges.
2. After the complete restraint-kit scrap trial passes, mark its 6 in (152.4 mm) × 1 1/4 in (31.75 mm) rear window centred across P04. Its top is 1/8 in (3.17 mm) below the back-panel top edge; its bottom is 1 3/8 in (34.92 mm) below that edge. Cut only the plywood. The later CBT wood support remains continuous behind the entire window, with 1/8 in (3.17 mm) overlap above and below.

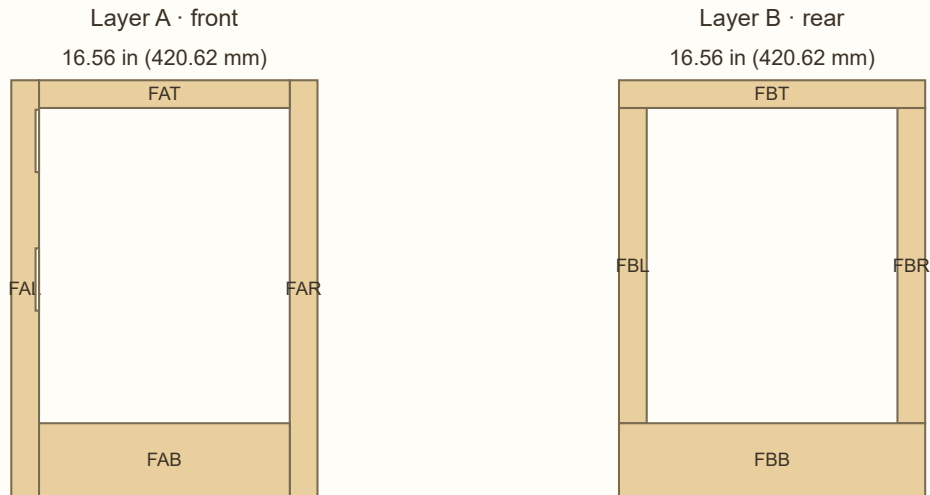
Check before continuing: Roof opening and rear access window match their named datums.

OP13 · Laminate the fixed front frame

Parts: FAL/FAR/FAB/FAT and FBL/FBR/FBB/FBT

Before you begin: Glue only bare mating wood.

Fixed frame · front and rear layers on the bench



Keep both layers flat; stagger the joints. Dashed assembly datums are outside floor/left edges. Use 5/8 in (15.88 mm) layers; transfer actual mating lengths before gluing.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Laminate the fixed front frame

1. Dry-lay both layers on a flat bench. Layer A has full-height uprights; layer B has full-width rails. Transfer fitted lengths from the matching panels and members; align the outer perimeter and opening without rounding a mating cut.
2. For the station drawing, place actual plywood-thickness gauges beyond the frame's bottom and left edges. Their outer faces represent the cabinet floor and side reference edges. Mark from those faces where named.
3. Spread Titebond III on bare mating faces and clamp square. Apply above 47°F (8.3°C); at 70°F (21.1°C) and 50% relative humidity (RH), allow 8–10 minutes open time and 20–25 minutes total assembly time. Follow the label's clamp instructions; do not stress the joint for at least 24 hours.
4. From layer B, drill 11/64 in (4.37 mm) clearance through that layer only, then a stopped 7/64 in (2.78 mm) pilot 7/16 in (11.11 mm) into A. Test on an offcut stack. Drive heads flush without burying them; nominal engagement is 3/8 in (9.52 mm) with 1/4 in (6.35 mm) tip cover.

Check before continuing: Flat square layers; staggered joints; flush heads and no exposed tips.

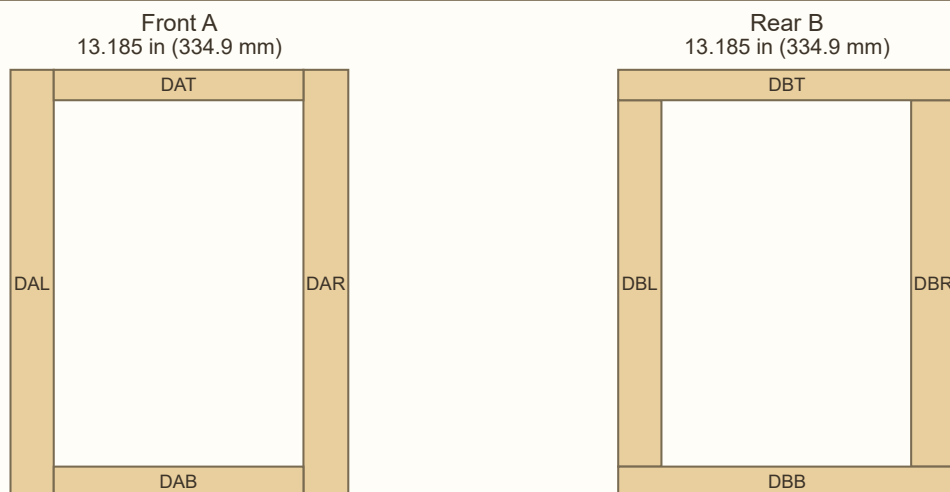
Required wait: Do not stress the glue-up for at least 24 hours; follow actual clamp instructions.

OP14 · Fit and glue the thinner door

Parts: DAL/DAR/DAB/DAT and DBL/DBR/DBB/DBT

Before you begin: Keep the glazing aperture and hardware bearing zones intact.

Door layers · preserve the inner pane opening



Bare door: 13.185 in (334.9 mm) wide × 16.685 in (423.8 mm) high.

Each layer 39/64 in (15.48 mm). Trim hinge/top/bottom only; leave the latch upright full width.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit and glue the thinner door

1. Lay both door layers on a flat bench. The reference bare door is 13.185 in (334.9 mm) wide by 16.685 in (423.8 mm) high. Fit to the actual frame opening with 3/16 in (4.76 mm) raw gaps on ALL four sides. Use two 39/64 in (15.48 mm) layers, with a total 1 7/32 in (30.96 mm) core thickness and the front set back 1/32 in (0.79 mm). Reduce only the hinge-side, top and bottom edges from the original blank; keep the full 1 3/4 in (44.45 mm) latch-side upright for the swivel plate. Keep the original inner glazing aperture. Match the layers before gluing.
2. Apply Titebond III to bare mating faces and clamp square. Apply above 47°F (8.3°C). At 70°F (21.1°C)/50% relative humidity (RH), open time is 8–10 minutes and total assembly time 20–25 minutes. Follow label clamping instructions; do not stress the bond for at least 24 hours.

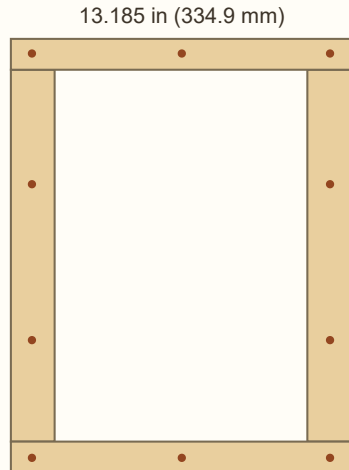
Check before continuing: Bare 3/16 in (4.76 mm) gaps all around; latch-side upright remains full width.

Required wait: Do not stress the glued assembly for at least 24 hours.

OP15 · Fasten the door layers

Parts: Ten #8 × 1 in (25.4 mm) lamination screws

Door lamination · rear face up



Ten flush screws

Left row: 13/16 in (20.64 mm)
from revised bare left edge

Right row: 7/8 in (22.23 mm)
from unchanged bare right edge

End rows: 9/16 in (14.29 mm)
from bare top / bottom

Middle heights: 10 and 16 in
(254 and 406.4 mm) from FLOOR

Use the setup-board FLOOR and LEFT datums for all hardware/station coordinates.
Clamp on a flat sacrificial board; drill layer-B clearance and stopped layer-A pilots.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fasten the door layers

1. From the revised bare door left edge, mark the left screw row 13/16 in (20.64 mm) inward. Mark the right row 7/8 in (22.22 mm) inward from the unchanged latch edge. Both rows have end screws 9/16 in (14.29 mm) from the top/bottom; middle screws are 10 in (254 mm) and 16 in (406.4 mm) above the floor-underside datum. Add one centered screw to each end rail at the same end-screw heights. Ten screws total. Use the full-size setup-board datums and exact station drawing; do not measure these from the veneer edge.
2. From layer B, drill 11/64 in (4.37 mm) clearance through B only, then a stopped 7/64 in (2.78 mm) pilot 7/16 in (11.11 mm) into A. Use #8 × 1 in (25.4 mm) flat heads, flush. Nominal engagement is 25/64 in (9.92 mm); tip cover is 7/32 in (5.56 mm). Test the actual screw and countersink on a matched offcut stack first.

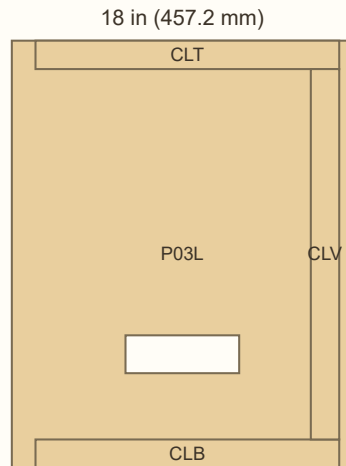
Check before continuing: Ten reference stations retain back cover and avoid later hardware.

OP16 · Fit the side and rear wood supports

Parts: CLB/CLT/CLV, CRB/CRT/CRV, CBB/CBT

Before you begin: Clamp panels flat before drilling. Transfer the actual supports before marking pilots.

Left wall · inside face up, front at left



Supports sit on solid wood

Front setback 1 1/4 in
(31.75 mm)

Rear gap = actual
back-panel thickness

Match right wall

Transfer support centerlines before clearance drilling. Use actual plywood gauges for outside datums.
Back cross supports start as 14 in (355.6 mm) blanks and trim to the assembled gap.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit the side and rear wood supports

1. Clamp each side inner face up. The top and bottom wood supports begin 1 1/4 in (31.75 mm) behind its front edge and finish flush with its top and bottom. Fit the rear upright between them. Use an offcut of the actual back plywood to set it forward of the rear edge; this reserves the back-panel rebate.
2. Start each back cross wood support as a 14 in (355.6 mm) blank. Place 1 1/2 in (38.1 mm) square offcuts flush with the back panel's side edges; mark and trim each blank to the gap between them. Fit the cross wood supports flush with the top and bottom.
3. Use the actual plywood as a thickness gauge: clamp an offcut against the lower panel edge for the floor reference edge, and against the back panel's left edge for the side reference edge. Measure from each gauge's outer face. Mark the rows in the station drawing. Drill 11/64 in (4.37 mm) clearance through plywood only, then a stopped 7/64 in (2.78 mm) pilot 1 1/8 in (28.57 mm) into pine. Test the actual screws on a matching offcut.
4. Drive screws until the flat heads are flush. Do not bury them. Keep the mating panel labels; the six back-to-upright screws are fitted later with the shell clamped square.

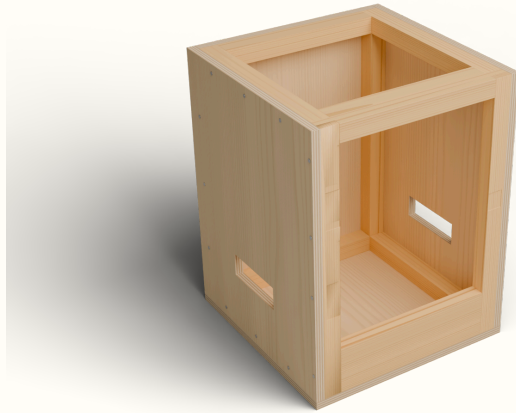
Check before continuing: Solid supports seated; side inlets and restraint recess remain clear.

OP17 · Dry-assemble the case

Parts: P01; prepared sides/back; fixed frame; CFB/CFT

Before you begin: Use a helper and a fully supporting bench; do not rely on loose panels to stand.

Dry-fit case · roof and door not yet fitted



Use a helper, continuous padded support and clamps before driving shell screws.
Mark each actual support centerline; preserve the outside floor / left / front datums.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Dry-assemble the case

1. On a flat support, stand both prepared sides on P01. Fit the back between them, with its rear face flush to the side rear edges. Have a helper hold the panels while clamps keep the shell square.
2. Fit the laminated front frame between the sides, its front face flush with their front edges. Fit CFB and CFT between the side wood supports directly behind the frame. Use 14 in (355.6 mm) blanks marked to the actual gap; hold these cross wood supports clamped until the floor and roof ties are fitted.
3. Mark the back and side-front rows in the station drawing. All heights here are measured from the assembled floor's underside. This keeps the original stagger between shell and layer screws.
4. Drill 11/64 in (4.37 mm) clearance through plywood only and a stopped 7/64 in (2.78 mm) pilot 1 1/8 in (28.57 mm) into pine. Check the actual #8 screws on an offcut; countersink and drive only to flush. Keep the shell supported and clamped for the next step.

Check before continuing: Supported square shell; front cross supports remain clamped.

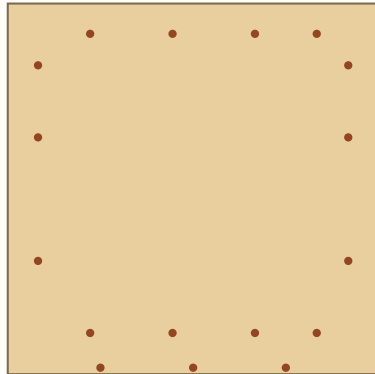
OP18 · Tie the floor and removable roof

Parts: P01/P02 and shell screws

Before you begin: Lay the clamped case on broad padded support to reach underside screws.

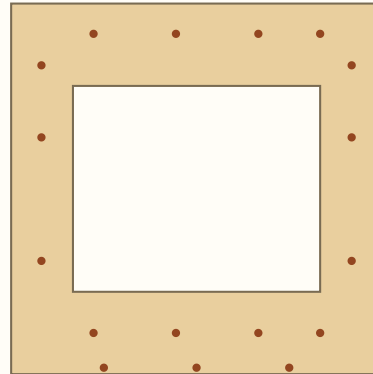
Floor and roof · outer-face screw pattern

P01 floor · drill upward from below
18 in (457.2 mm)



FRONT

P02 roof · drill downward from above
18 in (457.2 mm)



FRONT

Plan orientation: LEFT stays left; FRONT at bottom. Exact station X/Y coordinates are in the reference.
Lay the clamped case on broad padded support for underside access; never balance it on an edge.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Tie the floor and removable roof

1. Transfer the fitted side- and rear-wood support centre lines onto each matching floor/roof panel before closing the shell. Mark from actual members; do not round a calculated panel offset.
2. Lay out the four rows in the station drawing on each panel. Measurements along the rows start at the cabinet's outside left or front edge. Use the solid floor pattern on P01; all P02 holes stay outside its roof opening.
3. With a helper, support the clamped shell securely on a broad padded surface to access the underside. Never balance it on a narrow edge. Drill and fasten P01, then fit and fasten P02 from above.
4. Use 11/64 in (4.37 mm) plywood clearance and a stopped 7/64 in (2.78 mm) pine pilot 1 1/8 in (28.57 mm) deep, checked on an offcut. Drive heads flush. Recheck diagonals before final tightening. Retain matching labels and holes for later disassembly and coating.

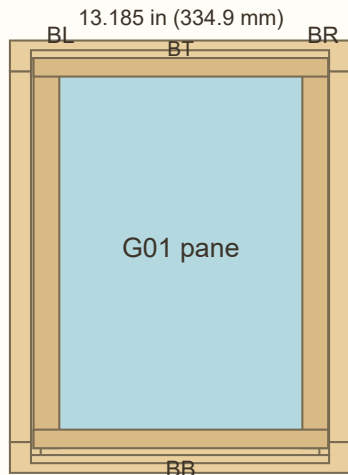
Check before continuing: Floor and roof seat; both diagonals agree within 1/16 in (1.59 mm); roof remains removable.

OP19 · Fit the pane pocket and caps

Parts: G01 pane; Q spacers; B caps

Before you begin: Size the pane from the bare aperture; no screw may enter it.

Pane-retainer assembly · rear of door



G01 floats on plain EPDM

B caps lift off for pane service

Q spacers support the caps

No holes in the acrylic

1/8 in (3.18 mm) edge space

Fit the cured sample first

Schematic layer overlay; use the exact part cuts and accepted sample, not scale measurements. Twelve cap screws enter only wood. Pane is sized from the original bare opening before veneer.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit the pane pocket and caps

1. Start the acrylic pane at about 10 1/2 in (266.7 mm) × 15 1/16 in (382.59 mm), sold as 0.22 in (5.59 mm) thick. Fit it to the bare door opening before veneer: add 3/4 in (19.05 mm) to the opening width and height, giving 3/8 in (9.52 mm) bearing at each edge. Keep 1/8 in (3.17 mm) space around the pane inside its pocket and 1/4 in (6.35 mm) cap overlap. Use the spacer thickness proved by the coated test sample in the receiving trials. Repeat that fit before gluing the spacers to bare door wood with Titebond III. Keep glue out of the pocket and leave 1/16 in (1.59 mm) between the retaining-strip ends and door stops. The veneer window strips reduce the visible opening only; do not size the pane from that smaller finished view.
2. Clamp the caps against the hard Q lands without the pane. Mark side screws on the fitted Q centre lines: floor-reference edge heights 7 1/2 in (190.5 mm), 11 1/2 in (292.1 mm), 15 1/2 in (393.7 mm), 19 1/2 in (495.3 mm). Mark two screws on each end-spacer centre line at 6 in (152.4 mm) and 12 in (304.8 mm) from the cabinet-left reference edge; use the transferred cabinet-left line on the setup board. Twelve screws total.

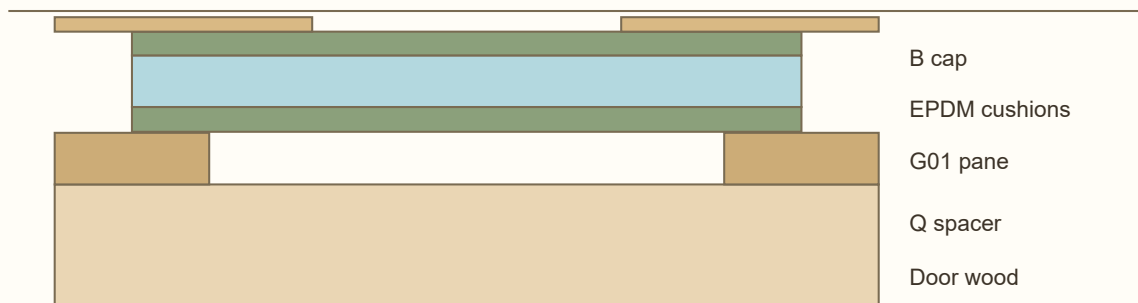
Check before continuing: Pocket and overlap match the accepted coupon and actual pane.

Required wait: Allow glued spacers at least 24 hours without stress before machining.

OP20 · Drill caps and prepare cushions

Parts: Twelve #4 × 1 in (25.4 mm) screws; eight EPDM cushion strips

Glazing coupon · schematic section through pocket



1. Start with the specified Q depth; coat and fully cure the complete sample.
2. Hand-seat caps on hard lands; no pane bow, hard points or rattle.
3. Record the accepted actual pocket depth; do not force the pane with screws.

Schematic is enlarged; the exact side section is in the specification. Acrylic reference 0.220 in (5.59 mm). Plain 1/16 in (1.59 mm) EPDM on each face; actual compression is accepted by the cured sample.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Drill caps and prepare cushions

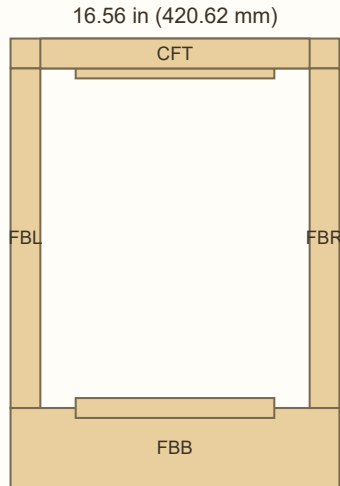
1. Drill 1/8 in (3.17 mm) clearance through each cap and spacer only; use a receiving pilot matched to the actual #4 screw root on a door offcut. Stop at 1/2 in (12.7 mm) maximum into door wood including the point. Use #4 × 1 in (25.4 mm) flat heads flush, not buried: nominal door engagement is 7/16 in (11.11 mm). No screw enters the pane. Label and remove caps for coating.
2. Cut plain ethylene propylene diene monomer (EPDM) cushions for both pane faces. Each ring needs two end strips about 10 1/2 in (266.7 mm) long. The front ring has two side strips about 14 5/16 in (363.54 mm) long and is 3/8 in (9.52 mm) wide. The rear ring has two side strips about 14 9/16 in (369.89 mm) long and is 1/4 in (6.35 mm) wide. Trim to the actual pane, butt the corners without overlap, and label all eight pieces. One 120 in (3048 mm) strip covers the approximately 100 in (2540 mm) total. No adhesive touches the acrylic. Install after full finish cure.

Check before continuing: Depth stops set; cap screws remain in wood; eight strips labeled.

OP21 · Fit the upper and lower stops

Parts: S01/S02; six retention screws

Stop placement · front assembly viewed from inside



S01 projects 1/2 in (12.7 mm) above the lower rail

S02 fastens upward into CFT

Three screws each at 1, 5, 9 in (25.4, 127, 228.6 mm)

Caps must clear the stops

Use the exact S01/S02 start points and directions in the station schedule.
Check at least 1/32 in (0.79 mm) finished cap-to-stop clearance.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit the upper and lower stops

1. Centre the 10 in (254 mm) lower stop across the fixed frame. Set its top 1/2 in (12.7 mm) above the lower front rail's top edge; half of its 1 in (25.4 mm) height overlaps the rail. Clamp its front face against the back of FBB.
2. Centre the upper stop across the frame with its top face against CFT's underside. Its front face aligns with the back of the fixed frame. It fastens upward into CFT, not into the front upper rail.
3. Mark each stop 1 in (25.4 mm), 5 in (127 mm) and 9 in (228.6 mm) from its left end. For S01, drill toward the front through its back face, 1/4 in (6.35 mm) above its lower edge. For S02, drill upward through its underside at the centre of its 3/4 in (19.05 mm) depth.
4. Drill 11/64 in (4.37 mm) clearance through the stop only. Test pilot and head seating on matching offcuts: nominal screw engagement is 1/2 in (12.7 mm) in FBB and 3/4 in (19.05 mm) in CFT. Keep pilots within the receivers; drive heads flush. Repeat final closing checks after the hardware and glazing fitting steps.

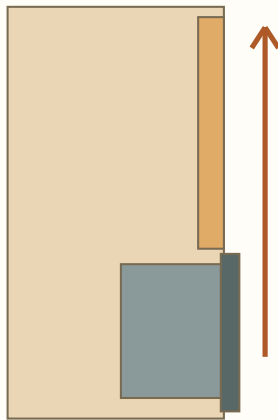
Check before continuing: Stops seat firmly and clear the removable glazing caps.

OP22 · Block the door and cut pin lanes

Parts: Supported door; FAL opening edge

Before you begin: Support the enclosure on its back; support the door separately.

Door service · lift until free, then move forward



Support the complete door throughout.

1. Release the hasp. Remove upper pin first.
2. Lift 3 1/8 in (79.38 mm), then forward.
3. Repeat for lower pin; move door clear.
4. Refit lower pin first, then upper.

Lane: 3/16 wide × 1/16 deep × 3 3/8 in long (4.76 × 1.59 × 85.73 mm); do not veneer.

Do not pull a freed pin upward into the header.

Front schematic; the pin moves forward after it clears the knuckle. Rehearse with the roof on. Leave at least 1/32 in (0.79 mm) actual head clearance; exact lane heights are in the station reference.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Block the door and cut pin lanes

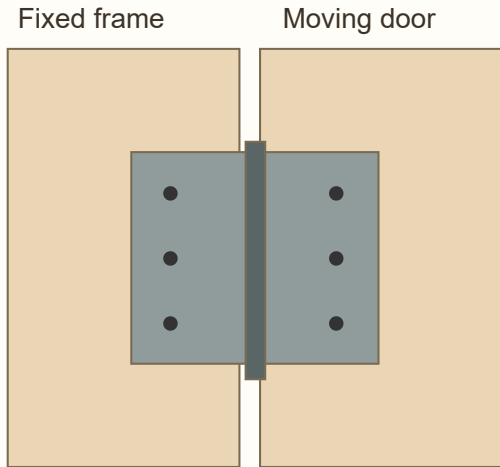
1. Lay the shell on its back on continuous padded support. Block the door against its stops. Use 3/16 in (4.76 mm) bare spacers on all four sides. Mark hinge centres 9 5/16 in (236.54 mm) and 16 13/16 in (427.04 mm) above the floor underside. Position the actual hinges using the successful test assembly, with both pin axes straight and the barrels outside the wood.
2. Provide a pin-head clearance lane above each fixed hinge seat, on the opening edge of FAL: 3/16 in (4.76 mm) wide, 1/16 in (1.59 mm) deep and 3 3/8 in (85.72 mm) long, starting at the seat's upper edge. The nominal lane starts are 10 13/16 in (274.64 mm) and 18 5/16 in (465.14 mm) above the floor underside. These shallow lanes clear the head during extraction; keep the remaining upright and hinge screw bearing intact. Cut on supported stock and ease the edges; coat and fully cure with the other wood in the coating operations. Repeat the actual pin trial; require at least 1/32 in (0.79 mm) finished clearance to wood. Mask these complete lanes during veneering. Veneer must not narrow the release path.

Check before continuing: Axes marked; full 3 3/8 in (85.72 mm) lanes preserved above each hinge.

OP23 · Seat and fasten the actual hinges

Parts: McMaster pair; twelve specified hinge screws

Removable-pin hinge · nominal front view



Two hinges; pin heads upward
 3 in (76.2 mm) nominal height
 Centers 7 1/2 in (190.5 mm) apart
 Trace actual leaves and holes.
 Fixed seat: 1/32 in (0.79 mm)
 Both leaf backs lie flat.
 Bare gap: 3/16 in (4.76 mm)

Schematic, not a drilling template. Metal seats and pin lanes stay free of veneer.
 Use the complete coated trial; keep screw heads flush and pin axes straight.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Seat and fasten the actual hinges

1. Trace each actual fixed hinge leaf, centred on its marked hinge height. Cut its flat 1/32 in (0.79 mm) face seat using shallow supported passes. Keep the wood outside the traced outline except for the specified pin-clearance lanes. Lay both hinges flat and align their pins with a straightedge.
2. Transfer the holes from the actual hinges. Mark the rear frame-screw locations on the front so every new screw stays at least 1/4 in (6.35 mm) from another screw shaft. If holes conflict, lower both hinges together by no more than 1/8 in (3.17 mm), keeping their 7 1/2 in (190.5 mm) spacing and full wood support. Repeat the complete coated swing and pin-removal test. Do not raise the upper hinge toward the top frame.
3. Drill the proven stopped pilots and fit all twelve #8 × 1 in (25.4 mm) screws flush. Remove shims and test the supported swing. Correct squareness, seat flatness and pin alignment first. If only a wood edge contacts, remove the leaf and plane minimally; retain 1 1/2 in (38.1 mm) side uprights, glazing bearing, stop overlap and 1/4 in (6.35 mm) screw-edge distance. Refinish, fully cure and repeat the trial. Never bend hinges or enlarge metal holes. Preserve the complete latch-side edge and metal backing; this is not an edge to trim for clearance.

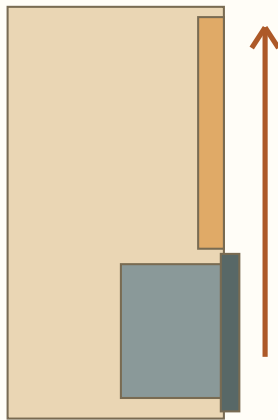
Check before continuing: Coated trial reproduced; no split wood, proud heads or hardware conflict.

OP24 · Rehearse door removal with the roof on

Parts: Complete supported door and both hinge pins

Before you begin: Support the complete door. Never carry it by the pane.

Door service · lift until free, then move forward



Support the complete door throughout.

1. Release the hasp. Remove upper pin first.
2. Lift 3 1/8 in (79.38 mm), then forward.
3. Repeat for lower pin; move door clear.
4. Refit lower pin first, then upper.

Lane: 3/16 wide × 1/16 deep × 3 3/8 in long
(4.76 × 1.59 × 85.73 mm); do not veneer.

Do not pull a freed pin upward into the header.

Front schematic; the pin moves forward after it clears the knuckle. Rehearse with the roof on.
Leave at least 1/32 in (0.79 mm) actual head clearance; exact lane heights are in the station reference.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Rehearse door removal with the roof on

1. Reserve 15 in (381 mm) in front plus the full swing sector. Keep the shell supported/restrained. To remove: turn the swivel and release the hasp, support the complete door, withdraw the upper pin 3 1/8 in (79.38 mm), just until its tip clears the upper knuckle, then move it forward into free space; repeat for the lower pin. Do not continue pulling either pin upward into the header. Confirm this path with the actual pin before final machining, then move it off the mating knuckles. Refit lower then upper pin with support. Never lift by acrylic. Repeat the full swing, latch and removal after full cure.

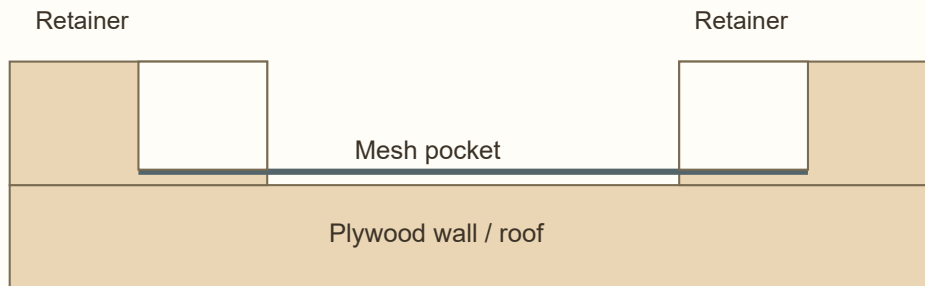
Check before continuing: Upper pin out first, then lower; lower pin in first when refitting.

OP25 · Capture both side screens

Parts: M02L/M02R; eight side retainer pieces

Before you begin: Wear protection for cut wire. Machine recesses in long supported stock.

Captured screen · enlarged edge section



1/8 in (3.18 mm) recess; verify actual wire crossings + finish.

Leave a continuous 1/8 in (3.18 mm) outer bearing land.

Diagram is a section, not a scale template. Stop pilots within the receiving plywood.

Cut wire edges stay inside the pocket; never trap a wire beneath the continuous wood land.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Capture both side screens

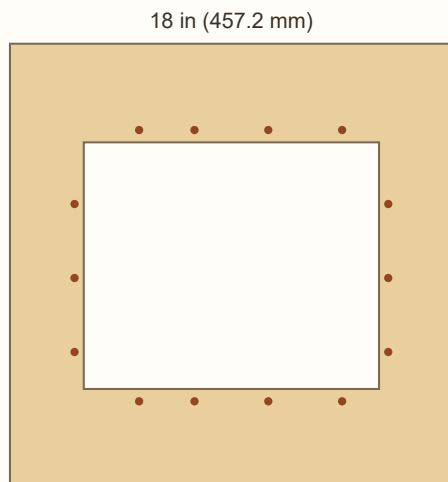
1. Centre each mesh blank over its 6 in (152.4 mm) × 2 in (50.8 mm) opening: overlap is 3/4 in (19.05 mm) on every side. File all clipped ends. The outer screen strip perimeter extends 1/4 in (6.35 mm) beyond each cut wire edge.
2. Route the panel-facing screen strip recess 1/8 in (3.17 mm) deep, following the mesh footprint plus 1/8 in (3.17 mm) around its perimeter. Leave a continuous 1/8 in (3.17 mm) outer land, including across corner joints. Route supported wide blanks before short final cut to lengths. The actual wire crossing plus finish must fit below the recess.
3. Clamp screen strips tight to the panel. Drill 11/64 in (4.37 mm) clearance through screen strips only. After an offcut test, stop the receiving plywood pilot at no more than 9/16 in (14.29 mm) including its point. Centre each screw in a mesh opening or clear wire locally inside the captured pocket; remove all clippings.
4. Drive heads flush, not buried. The nominal plywood engagement is 1/2 in (12.7 mm). Inspect every corner and outer land for trapped wire and exposed points. Mesh aperture still requires a separate animal/feeder suitability check.

Check before continuing: Wire edges fully enclosed; all lands bear; openings clear.

OP26 · Recess the roof screen retainers

Parts: M01; RF/RB/RL/RR

Roof opening · TOP reference, FRONT toward the bottom



Opening: 12 × 10 in
(304.8 × 254 mm)

Left marks: 3 and 15 in
(76.2 / 381 mm)

Front marks: 4 and 14 in
(101.6 / 355.6 mm)

Keep roof removable

P04 rear window: 6 × 1 1/4 in (152.4 × 31.75 mm), centered; top 1/8 in below back top.
Never cut the CBT backing support. Actual restraint trial controls final window acceptance.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Recess the roof screen retainers

1. Work with the roof inside face up, keeping its left/front labels visible. Centre the 13 in (330.2 mm) × 11 1/2 in (292.1 mm) mesh on the 12 in (304.8 mm) × 10 in (254 mm) opening: 1/2 in (12.7 mm) overlap left/right, 3/4 in (19.05 mm) front/rear. File cut ends. Place the long screen strips at the front/rear of the opening and the 3/4 in (19.05 mm)-wide side screen strips between them.
2. Recess each panel-facing screen strip surface 1/8 in (3.17 mm) deep across the mesh footprint plus 1/8 in (3.17 mm) around its cut perimeter. Retain a continuous 1/8 in (3.17 mm) outer wood land. Work on supported wide stock before cutting small pieces. Received wire crossings plus coating must fit without holding those lands off the panel.

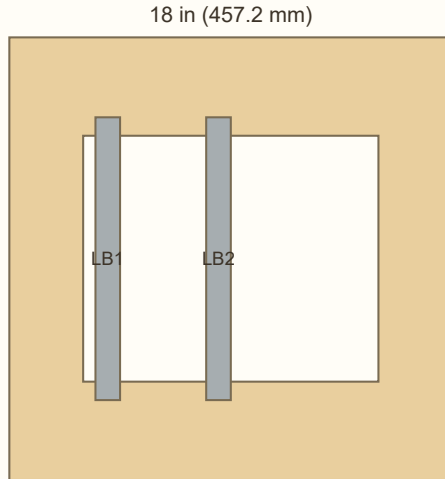
Check before continuing: Continuous outer lands remain; measured wire fits below them.

OP27 · Fit the two steel support strips

Parts: LB1/LB2; RF/RB

Before you begin: Clamp steel for drilling; deburr all faces. No load rating follows from this fit.

Roof support strips · underside plan



Strip centers: $x = 4$ and $8 \frac{1}{2}$ in
(101.6 / 215.9 mm)

Ends: $y = 3 \frac{1}{4}$ and $14 \frac{3}{4}$ in
(82.55 / 374.65 mm)

Bolt rows: $y = 3 \frac{1}{2}$ and $14 \frac{1}{2}$ in
(88.9 / 368.3 mm)

Fixture center: $x 6 \frac{1}{4}$, $y 9$ in
(158.75 / 228.6 mm)

Two $1 \times \frac{1}{8} \times 11 \frac{1}{2}$ in (25.4 $\times$ 3.18 $\times$ 292.1 mm) steel strips. Measure actual recess depth.

Four fixture contacts and thermal clearances require actual verification. This is not a tested load rating.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit the two steel support strips

1. Cut two $11 \frac{1}{2}$ in (292.1 mm) lengths from the single 36 in (914.4 mm) steel bar. File and deburr them. Mark two $\frac{1}{4}$ in (6.35 mm) bores along each width centreline, $\frac{1}{4}$ in (6.35 mm) from each end; drill over backing and deburr both faces. These centres are 11 in (279.4 mm) apart.
2. Set the strip width centrelines 4 in (101.6 mm) and $8 \frac{1}{2}$ in (215.9 mm) from the roof left edge; the ends are $3 \frac{1}{4}$ in (82.55 mm) and $14 \frac{3}{4}$ in (374.65 mm) from its front. Transfer their actual footprints to RF/RB. Recess those end footprints beneath the wire by the measured steel thickness so both strips touch the mesh underside. Measure the actual steel and crossed wires together to set the recess. Use actual material to set the recess, preserving full end support and more than $\frac{1}{2}$ in (12.7 mm) wood beneath it.

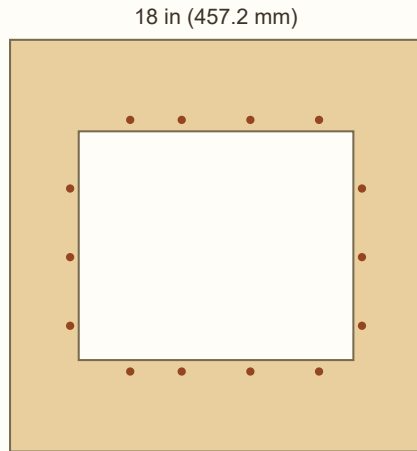
Check before continuing: Actual strips contact mesh and retain more than $\frac{1}{2}$ in (12.7 mm) wood below the end recesses.

OP28 · Bolt and screw the roof assembly

Parts: Four bolts, eight washers, four nuts; fourteen wood screws

Before you begin: Check both corrected side rows before drilling. Keep all service heads exposed.

Roof underside · verified side rows land on plywood



RL: $x = 2 \frac{5}{8}$ in (66.68 mm)

RR: $x = 15 \frac{3}{8}$ in (390.53 mm)

Three holes per side row:

$y = 5 \frac{1}{2}$, $8 \frac{1}{2}$, $11 \frac{1}{2}$ in
(139.7, 215.9, 292.1 mm)

All positions from LEFT / FRONT.

14 wood screws + 4 through-bolts.

Drill with roof detached and supported.

Red dots are wood-screw stations. The complete fastener drawing/CSV supplies RF/RB positions. Verify each bit meets solid plywood, never the open screen aperture.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Bolt and screw the roof assembly

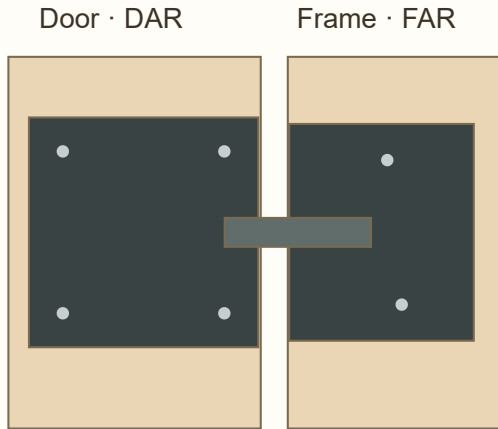
1. Clamp the fitted roof/screen strip/steel stack and transfer the four bolt centres: 4 in (101.6 mm) and $8 \frac{1}{2}$ in (215.9 mm) from the left, each at $3 \frac{1}{2}$ in (88.9 mm) and $14 \frac{1}{2}$ in (368.3 mm) from the front. Remove the steel and mesh before drilling wood; drill $\frac{1}{4}$ in (6.35 mm) clearance through roof and screen strips with backing. Align real mesh cells with the holes without trapped wire or loose clipped ends.
2. Fit each bolt from the roof top through a washer, plywood, mesh, steel and screen strip, then the second washer and Keps nut underneath. Seat the stack flat before tightening. All nut threads must engage, with no sharp or snagging tail. Do not crush the wood. This construction is a proposed support, not a tested load rating.
3. Install the fourteen roof-retainer wood screws from the exact station drawing. RL and RR side-retainer rows are $2 \frac{5}{8}$ in (66.67 mm) and $15 \frac{3}{8}$ in (390.52 mm) from the roof left edge; each has stations $5 \frac{1}{2}$ in (139.7 mm), $8 \frac{1}{2}$ in (215.9 mm), $11 \frac{1}{2}$ in (292.1 mm) from the front. Each hole must lie over solid roof plywood, outside the opening. Use $\frac{11}{64}$ in (4.37 mm) clearance through the retainer only and a root-tested plywood pilot stopped at $\frac{9}{16}$ in (14.29 mm) maximum including the point. Seat the heads flush and keep wire clear of the bearing lands. Refit the roof with its existing shell holes; side retainers must clear the upper case supports.

Check before continuing: All side-retainer screws pass into solid roof plywood, outside its opening.

OP29 · Fit the keyless swivel latch

Parts: FAR/DAR; N305-979; seven #10 × 5/8 in (15.88 mm) screws

Keyless closure · full metal backing on both uprights



- Square swivel plate on the door
- Narrow hinged base on the frame
- Whole plates bear on bare wood.
- Trace actual seats and holes.
- Turn swivel, then lift flap clear.
- Do not trim the latch-side upright.

Height datum: 13 in (330.2 mm) above floor underside

Nominal location illustration; use the accepted actual N305-979 assembly as the template.
Keep each hole at least 1/4 in (6.35 mm) from wood edges and other screw shafts.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fit the keyless swivel latch

1. Block the door closed with the proven gaps. Mark a horizontal line 13 in (330.2 mm) above the floor underside. Centre the swivel plate on the door upright at that height, using the actual hardware from the test assembly. Keep the whole plate on wood and each hole at least 1/4 in (6.35 mm) from an edge or another screw.
2. Place the narrow hinged base on FAR and the square swivel plate on DAR. Close the flap over the swivel without pulling the door sideways. Trace the actual fixed base and cut its flat 1/32 in (0.79 mm) face seat. Do not cut outside its traced outline; use the tested hardware placement rather than measuring from the illustration.
3. Check all seven transferred holes against frame, door and glazing screws. Use the stopped pilot and screw-head fit proved in the receiving trials. Fit the three base screws into FAR and four swivel-plate screws into DAR, retaining at least 1/2 in (12.7 mm) rear cover. Hand-seat without crushing wood.
4. Turn the swivel, swing the flap fully away from the moving leaf and open through 90°. Close without pulling the leaf sideways. Turn the swivel across the closed slot to retain the flap. Repeat after finish cure. Use a separate handle grip on the wood rather than pulling on the pane or flap.

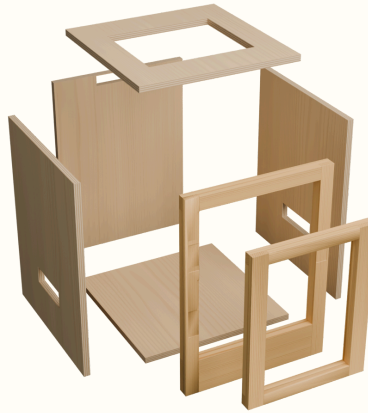
Check before continuing: Turn, release, open, close and secure by hand without pulling the door sideways.

OP30 · Strip the dry fit and prepare for coating

Parts: Labeled wood, removed hardware and mesh

Before you begin: The liner protects the damp basin; this finish is not an immersion coating.

Separate the wood assemblies before coating



Major panels and glued frame/door groups shown separated; fully support each on the bench. Remove fittings. Coat loose supports, caps and retainers separately; preserve labels and glue bonds.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Strip the dry fit and prepare for coating

1. Use Varathane Triple Thick satin brush-on, manufacturer 284473: Lowe's item 9181732, seller model 284473-7482, sold as two quart cans per pack. Match the actual satin cans and label. This water-based polyurethane has a slight amber tone. It is selected for ordinary indoor, moderate-humidity service above the lined basin; the EPDM liner, not the finish, takes the damp substrate. Avoid standing water and fixture hotspots.
2. After successful dry fit, remove hardware, mesh, glazing and caps. Complete frame/door and Q-spacer glue-ups first; leave their bond faces bare. Sand clean dry wood from 120 through 220 grit, vacuum and wipe with a lint-free cloth. Coat disassembled screwed parts on all faces, edges and opening reveals; exclude bonded contacts.

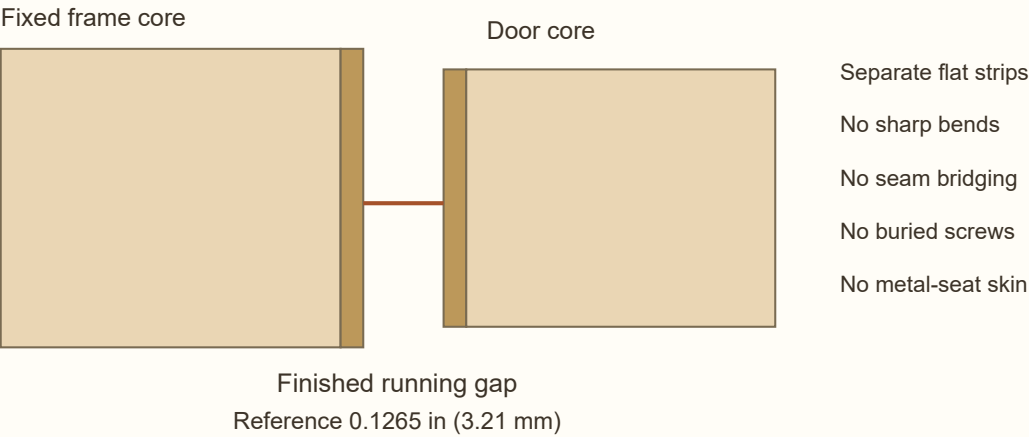
Check before continuing: All glue-ups complete, sanding dust removed, matching parts retained.

OP31 · Preseal the veneer substrates

Parts: Case panels and assembled frame/door

Before you begin: Do not proceed without the accepted bond and panel-balance trial.

Full exterior veneer · enlarged clearance detail



Bare gaps: 3/16 in (4.76 mm) on all four sides. Each maximum stack: 0.046 in (1.17 mm).
Require at least 1/16 in (1.59 mm) ACTUAL finished running gap and the supplier-approved bond trial.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Preseal the veneer substrates

1. Keep screw holes, joints, metal bearing seats and pin lanes identified before coating. Preseal the porous veneer-bond surfaces with the supplier-approved system; keep glue bonds complete first.
2. The veneer supplier describes a minimum 24-hour sealer wait. This selected coating requires seven days for full cure at 70°F (21.1°C) and 50% relative humidity (RH); use the longer applicable requirement and any additional supplier dwell. Record conditions and extend for adverse conditions.
3. After acceptance, lightly scuff the cured bond faces with 120 grit as directed by the veneer supplier; clean without leaving contamination. Use only a cleaning method compatible with the selected coating and adhesive.

Check before continuing: Clean, flat approved bond faces; both product instructions satisfied.

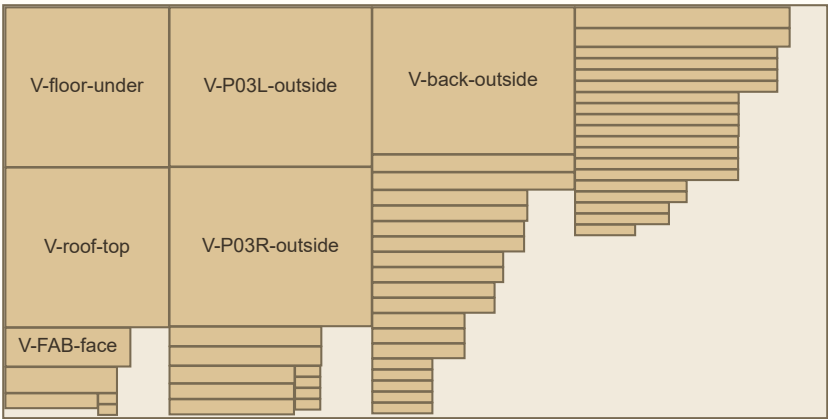
Required wait: Full coating cure plus the supplier's required adhesive preparation/dwell, whichever governs.

OP32 · Cut and label the veneer pieces

Parts: One selected veneer sheet; V-part schedule

VENEER-1 · rough blank allocation

96 in (2438.4 mm) × 48 in (1219.2 mm) stock · grain along length



Trim 1/4 in (6.35 mm) at specified edges; separation / kerf 1/16 in (1.59 mm).
Small strips are identified in the exact coordinate table; reject defects instead of shrinking parts.
N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Cut and label the veneer pieces

1. Use the grain-fixed veneer layout. Buy one 48 in (1219.2 mm) × 96 in (2438.4 mm) sheet of one selected species with the specified PSA backing. The allocation includes 53 pieces and three trial blanks, 1/4 in (6.35 mm) edge trim, 1/16 in (1.59 mm) cut separation and oversize trimming margins.
2. Lay out visible matching grain before cutting. Roof, floor-edge and horizontal rails run left-to-right; vertical walls/uprights run top-to-bottom. Mark each V-part and its parent on the backing. Keep the opening waste for repair coupons.
3. Cut separate flat face and edge strips. Do not bend veneer around the sharp plywood edge. Work on a cutting board with a held straightedge and repeated shallow knife passes, hands outside the cutting path.

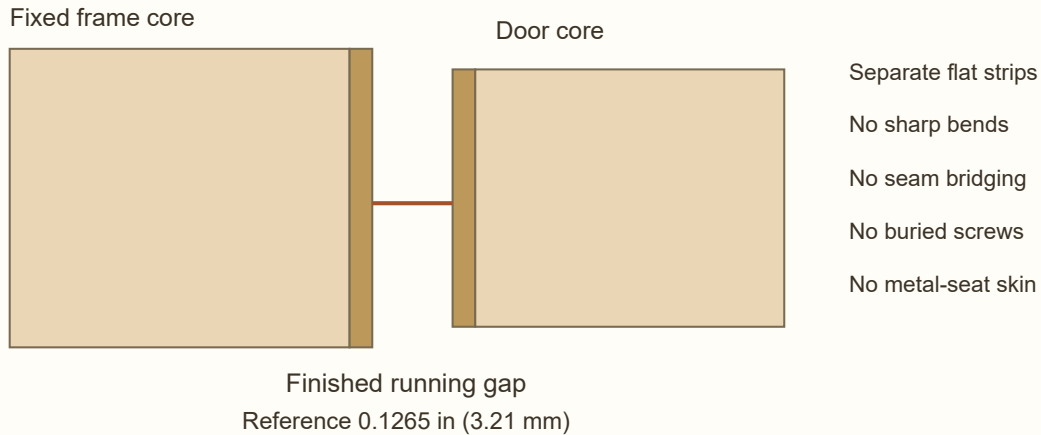
Check before continuing: Every face, roof, underside and exposed reveal has a labeled piece; grain follows the layout.

OP33 · Veneer the edges and opening reveals

Parts: All V-part edge strips; actual metal templates

Before you begin: The bare metal seats will be covered by hardware. Do not cut into structural wood while trimming.

Full exterior veneer · enlarged clearance detail



Bare gaps: 3/16 in (4.76 mm) on all four sides. Each maximum stack: 0.046 in (1.17 mm).
Require at least 1/16 in (1.59 mm) ACTUAL finished running gap and the supplier-approved bond trial.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Veneer the edges and opening reveals

1. Apply the square edge and reveal strips before the broad faces. Bond each to its own panel only. Butt adjoining pieces cleanly; do not overlap stacks or bridge the removable roof joint.
2. Leave the complete fixed/moving hinge seats, hasp seats and pin-release lanes free of veneer. Keep the original wood-bearing planes under the four upper roof washers: trace each actual washer and trim the skin within that fully covered footprint.
3. Use the supplier's firm scraper pressure from the center outward along the grain, with the part fully supported. Score and trim flush in shallow passes; ease sharp edges lightly without exposing a plywood stripe. Check every edge for lifting.

Check before continuing: No covered service joint or screw head; no veneer under metal bearing planes.

OP34 · Veneer the broad outside faces

Parts: All outside V-parts; 72 shell screw stations

Before you begin: Hardware stays on the proved core bearing seats. Do not move it outward onto veneer.

One continuous-looking exterior · separate serviceable pieces



The roof, edges and reveals use matching veneer; service joints remain distinct. Metal seats, pin lanes, washer bearing circles and screw heads stay accessible.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Veneer the broad outside faces

1. Dry-position each labeled face before peeling the backing. Align the grain and leave the planned trimming margin. Press progressively from the center outward, covering the whole face with the specified firm scraper pressure.
2. Trim faces to the edge bands and openings without double layers. Keep each side, back, floor, roof and frame member independent; never veneer over a case seam or screw head.
3. Reopen every shell-screw station and test its actual head seat on an offcut. The same 1 3/4 in (44.45 mm) shell screws now seat on the veneer surface; the reference stack reduces wood engagement by 0.0305 in (0.77 mm). Keep heads accessible and flush. Do not bury hardware to hide it.

Check before continuing: Whole wooden exterior covered, including the roof and exposed edges; holes and removable joints stay open.

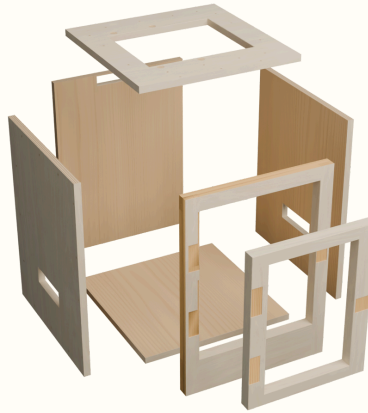
Required wait: Meet the adhesive maker's actual dwell before topcoating or loading the bond; unresolved numeric dwell is a stop.

OP35 · Apply the final coat and wait for full cure

Parts: Varathane 284473 satin; final veneered parts

Before you begin: Ventilate and meet the current label's temperature and humidity limits.

Coat the separate, veneered wood assemblies



Major panels and glued frame/door groups shown separated; fully support each on the bench. Remove fittings. Coat loose supports, caps and retainers separately; preserve labels and glue bonds.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Apply the final coat and wait for full cure

1. Stir; do not shake. With ventilation, apply one uniform coat along the grain using a quality synthetic-bristle brush at 60–90°F (15.6–32.2°C) and below 85% relative humidity. This is a one-coat formulation; follow the actual product label. Follow the manufacturer's stated application coverage; do not build up a thick coat. If another coat is needed, sand with 220 grit, allow the specified two-hour recoat interval at reference conditions, and add its area to the allowance.
2. The conservative rectangular wood area is 47.37 square feet (4.40 square metres). Adding a separate preseal/topcoat allowance for the veneer faces and another 15% contingency gives 74.49 square feet (6.92 square metres). At 50 square feet (4.65 square metres) per quart, the two-quart (1.89 litre) pack covers this one-coat schedule. Extra coats, balance layers or trials require a fresh allowance; it is not an immersion system.
3. Keep unoccupied until the final applied or repaired coat fully cures: seven days at 70°F (21.1°C) and 50% relative humidity with ventilation. The 48-hour light-use interval is not full cure. Record final-coat time and conditions; colder or adverse conditions require longer under manufacturer instructions. Do not replace full cure with touch-dry or odor checks. Inspect the coating for defects before reassembly.

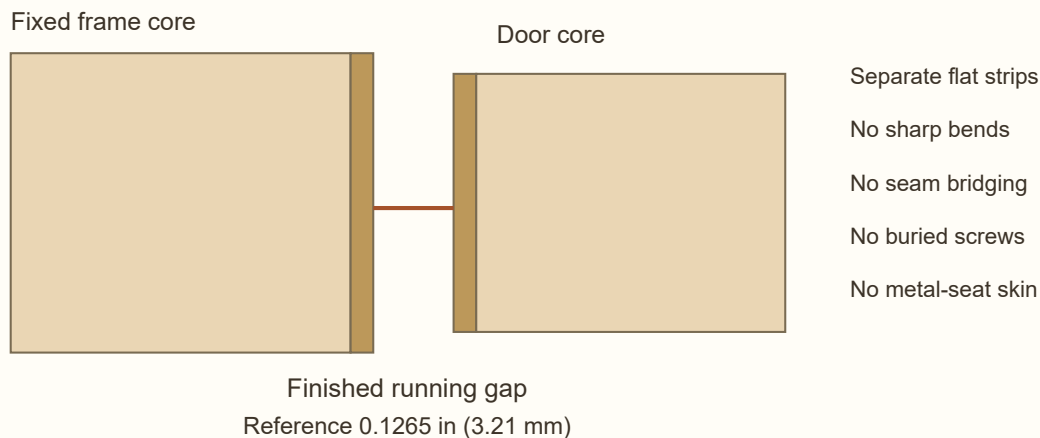
Check before continuing: Application, repairs, coat count and full-cure deadline recorded.

Required wait: Seven days at 70°F (21.1°C) and 50% relative humidity (RH) after the last coat or repair; longer when conditions require.

OP36 · Measure the finished door clearances

Parts: Cured case, door and actual fittings

Full exterior veneer · enlarged clearance detail



Bare gaps: 3/16 in (4.76 mm) on all four sides. Each maximum stack: 0.046 in (1.17 mm).

Require at least 1/16 in (1.59 mm) ACTUAL finished running gap and the supplier-approved bond trial.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Measure the finished door clearances

1. Reassemble only after full cure. Check the actual finished gaps: at least 1/16 in (1.59 mm) around the moving door and at least 1/32 in (0.79 mm) between retaining strips and stops. Check all four gaps with the selected veneer in place. The measured complete veneer/adhesive/film stack must not exceed 0.046 in (1.17 mm) on any covered face. Avoid coating damage. Use the left steel-supported screen area only under the fixture conditions in the commissioning operations; keep heat off wood and glazing.

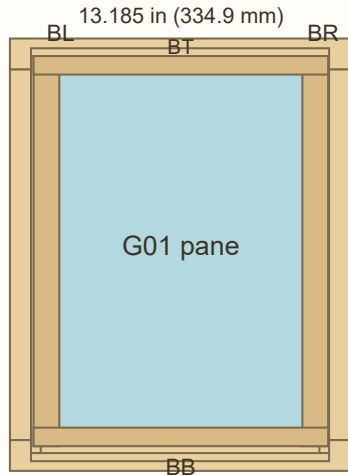
Check before continuing: At least 1/16 in (1.59 mm) at all moving perimeter edges and 1/32 in (0.79 mm) between caps and stops; stack at most 0.046 in (1.17 mm).

OP37 · Reassemble the shell and pane

Parts: Labeled shell, mesh, Q/B parts, pane and cushions

Before you begin: Hand-tighten evenly. Extra screw force is not a fit adjustment.

Pane-retainer assembly · rear of door



G01 floats on plain EPDM

B caps lift off for pane service

Q spacers support the caps

No holes in the acrylic

1/8 in (3.18 mm) edge space

Fit the cured sample first

Schematic layer overlay; use the exact part cuts and accepted sample, not scale measurements. Twelve cap screws enter only wood. Pane is sized from the original bare opening before veneer.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Reassemble the shell and pane

1. After full cure, reassemble the labelled shell, mesh frames, supports and roof in the dry-fit order. Hand-seat screws in their original holes. Check square bearing and complete screen capture; keep the tall enclosure supported throughout.
2. Lay the cured door flat with its rear face upward. Fit the labelled front EPDM, centred pane and cap-side EPDM. Butt strip corners without overlap. Install the labelled caps and tighten the twelve screws evenly by hand until their hard wood lands seat.
3. Compare with the accepted test sample. Check both pane faces for bow, all edges for free expansion space, and carefully support/turn the door to check rattle. Correct misplaced strips or raised lands; never tighten against glass or acrylic, guess a shim, or machine a new pocket after assembly to force a fit.

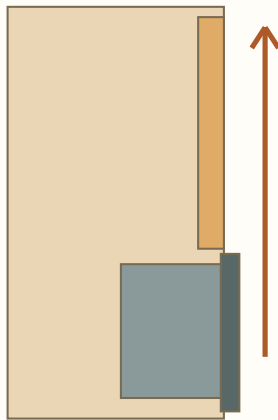
Check before continuing: Pane flat and quiet; hard lands fully seated.

OP38 · Refit the door and inspect every edge

Parts: Complete door, hinge pins and latch

Before you begin: Any coating repair restarts the applicable cure wait.

Door service · lift until free, then move forward



Support the complete door throughout.

1. Release the hasp. Remove upper pin first.
2. Lift 3 1/8 in (79.38 mm), then forward.
3. Repeat for lower pin; move door clear.
4. Refit lower pin first, then upper.

Lane: 3/16 wide × 1/16 deep × 3 3/8 in long
(4.76 × 1.59 × 85.73 mm); do not veneer.

Do not pull a freed pin upward into the header.

Front schematic; the pin moves forward after it clears the knuckle. Rehearse with the roof on.
Leave at least 1/32 in (0.79 mm) actual head clearance; exact lane heights are in the station reference.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Refit the door and inspect every edge

1. Support the complete leaf while refitting the hinge pins, lower then upper. Refit the keyless closure and test the full swing, hand release and roof-on pin service. Require at least 1/16 in (1.59 mm) actual cured perimeter running clearance and 1/32 in (0.79 mm) clearance from retainers to stops.
2. Inspect for exposed wire, sharp bolt tails, proud screws, cracked wood and finish damage. Refinish any repaired wood and repeat full cure before use. Keep all receiving and fit measurements with the completed guide.

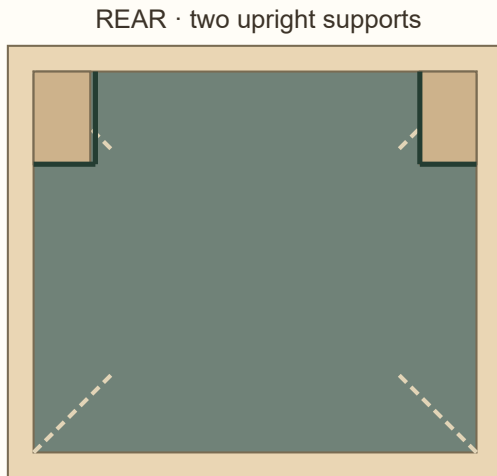
Check before continuing: Repeat free swing, latch, roof-on pin removal and cured gap checks.

OP39 · Fold the uncut liner into the basin

Parts: 36 in (914.4 mm) underlay square and 36 in (914.4 mm) EPDM square

Before you begin: Remove the roof; keep sharp edges and loose fasteners away from the liner.

Fold the basin · one continuous uncut sheet



Underlay first, EPDM above it.
Two 36 in (914.4 mm) squares.
Fold corners flat; never slit them.
Leave slack over bottom supports.
Wrap around both rear uprights.
Clamp only above the fill line.
Remove the roof for access.

Plan schematic: dashed lines show folded corner areas, not cut lines. Preserve all watertight corners.
Use the next height diagram before trimming the upper margin or making any clamp holes.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fold the uncut liner into the basin

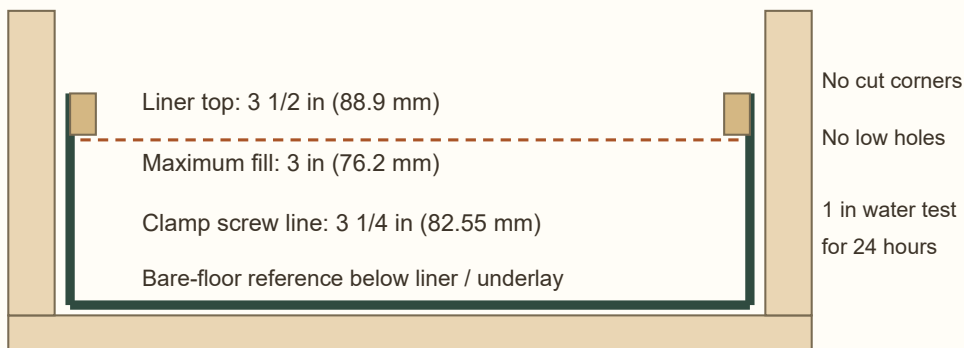
1. After the finish fully cures, reassemble the shell and lift off the roof. Vacuum the inside and smooth sharp support edges. Mark the top of the bare plywood floor on all sides; use this same starting height for the fill, liner and clamp marks. Cut one 36 in (914.4 mm) square underlay and one matching 45 mil (0.045 in / 1.14 mm) EPDM liner. These blanks include room for the raised sides and corner folds. Keep all corners uncut.
2. Lay the underlay, then the EPDM, into the floor. Let both settle with slack over the bottom wood supports and against the walls. Fold each corner flat like a hospital corner and wrap the liner around the room faces of the two rear uprights. Never slit a corner or stretch the membrane over an edge.

Check before continuing: Slack folds cover the stepped supports and rear uprights; no cut corners.

OP40 · Mark fill, liner and clamp heights

Parts: Bare-floor datum; folded liner

Basin heights · all measured from the bare floor



This enlarged section shows reference heights; bottom supports occupy part of the lined space. Never measure fill upward from a raised support. Substrate sits below the marked maximum fill line.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Mark fill, liner and clamp heights

1. Use the bare plywood floor reference edge for every height in this basin: maximum fill line 3 in (76.2 mm), liner upper edge 3 1/2 in (88.9 mm), and clamp screw centres 3 1/4 in (82.55 mm) above it. Trim only the upper margin after dry folding. The 1/2 in (12.7 mm)-high clamps span the 3 in (76.2 mm)–3 1/2 in (88.9 mm) band, above the fill; their tops are flush with the liner edge. The actual substrate depth is slightly less than 3 in (76.2 mm) because the liner and underlay occupy some height. Keep all substrate below the marked fill line, which leaves 2 in (50.8 mm) to the side-inlet bottoms. Do not measure these heights upward from the tops of the wood supports.

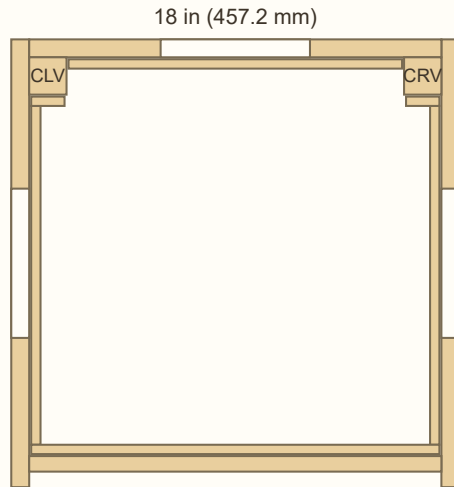
Check before continuing: Fill, clamp screw and liner-edge marks all start at the bare floor, not support tops.

OP41 · Fasten the six removable liner clamps

Parts: LCL/LCR/LCF/LCB/LCPL/LCPR; eighteen #8 × 1 in (25.4 mm) screws

Before you begin: Fit to actual folds without stretching or pinching; keep every drill depth stopped.

Six removable liner clamps · plan above the basin



All 18 screws above fill

Clamps: 3/8 × 1/2 in
(9.53 × 12.7 mm)

Pilot stop includes bit tip

At least 1/8 in (3.18 mm)
wood beyond actual tips

Fit lengths to slack folds

Fold behind and around the rear uprights; short clamps LCPL / LCPR secure their room faces.
Do not glue clamps or slit the liner corners. Release clamps and roof for liner replacement.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Fasten the six removable liner clamps

1. Fit the six 3/8 in (9.52 mm) × 1/2 in (12.7 mm) clamps over the liner: LCL/LCR on the side walls, LCF against the front rail, LCB between the rear uprights, and LCPL/LCPR on their room faces. Preserve the uncut folds and fit clamp lengths to the actual lining stack without stretching or pinching it. Use the screw station schedule for all 18 #8 × 1 in (25.4 mm) screws; keep every centre at the 3 1/4 in (82.55 mm) reference edge. Drill 11/64 in (4.37 mm) clearance through clamps only, ease the countersinks, and use the offcut-tested 7/64 in (2.78 mm) pine pilot with a positive stop. On plywood, limit receiving pilot depth to 9/16 in (14.29 mm), including the drill point. Test the actual screw in the matching clamp/lining/wood test sample; its tip must remain covered by at least 1/8 in (3.17 mm) of wood. Seat the head flush without crushing the clamp. No penetration may fall at or below the fill line.

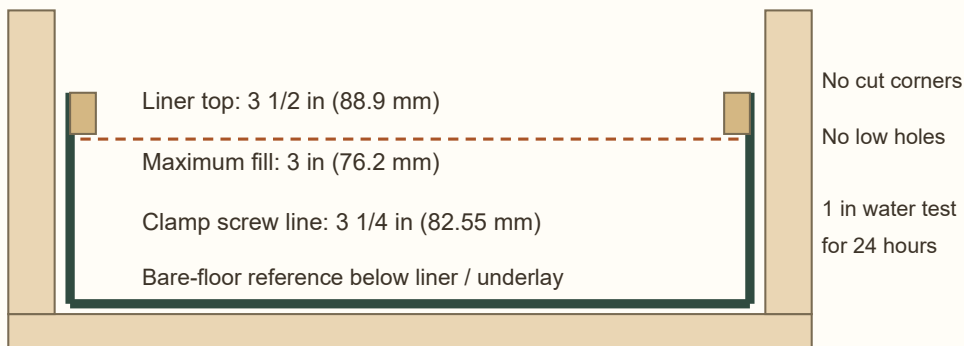
Check before continuing: All penetrations above fill; nominal tips retain at least 1/8 in (3.17 mm) wood cover.

OP42 · Perform the shallow liner test

Parts: Fully supported empty enclosure; siphon

Before you begin: This shallow test does not approve aquarium use.

Basin heights · all measured from the bare floor



This enlarged section shows reference heights; bottom supports occupy part of the lined space. Never measure fill upward from a raised support. Substrate sits below the marked maximum fill line.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Perform the shallow liner test

1. Wet-test with 1 in (25.4 mm) of water for 24 hours on the fully supported base. Check the outside and the floor underside, then siphon the water out and let the basin dry. This is a shallow liner check, not permission to use the box as an aquarium.

Check before continuing: Outside and floor underside remain dry; drain and dry before fitting contents.

Required wait: 1 in (25.4 mm) water for 24 hours; inspect throughout and stop/drain on any leak.

OP43 · Place the enclosure on full support

Parts: Complete enclosure; proved restraint bracket

Before you begin: Use support rated for the measured completed load; do not stack.

Full-base support and accessible restraint



Support the complete finished footprint without overhang; do not stack.
Keep the full swing sector and 15 in (381 mm) forward access clear.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Place the enclosure on full support

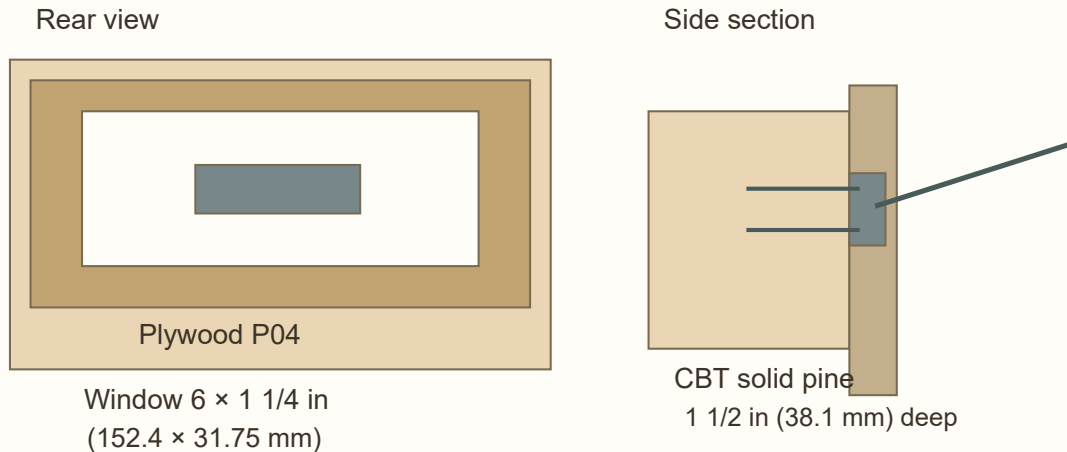
1. After the coating fully cures, refit the preassembled bracket to its proved holes directly in CBT, using the two supplied 5/8 in (15.88 mm) furniture screws. Check firm seating without crushed wood or stripped holes. Repeat cable, driver and bracket-removal checks.
2. Place the full finished base, about 18.061 in (458.75 mm) square at the reference veneer stack on continuous, rigid, level support rated for the measured completed shell and contents. Do not stack or allow overhang. Keep space for the full door swing, 15 in (381 mm) forward clearance, and the specified upward-then-forward pin removal paths.

Check before continuing: Finished base entirely supported, level and without overhang.

OP44 · Connect and recheck the restraint

Parts: Complete kit, suitable wall and actual fasteners

Rear restraint · opening backed by continuous CBT



Remove both accessible furniture screws; bring the complete bracket outward for service. Actual kit controls screw holes, driver and cable access. Never cut the solid CBT backing.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Connect and recheck the restraint

1. Use the selected kit's documented wood-stud wall connection. Identify sound studs and concealed services; check actual wall covering, screw engagement and cable reach. Set the wall bracket so the cable clears the recess edges throughout its route. Seat both clevis/cotter retainers fully and preserve inspection access. Other wall types require their own documented attachment; drywall alone is not a receiver.
2. The kit rating is not a rating for this assembled shell. With the shell supported, confirm firm bracket screws and service access without removing the roof. For service, release the wall end, remove the two accessible furniture screws and bring the bracket outside before removing its clevis. Do not pull against an unsupported enclosure.

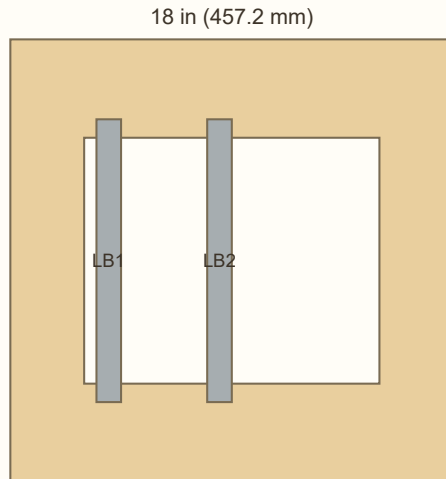
Check before continuing: Wall/furniture connections and service access accepted for the actual installation.

OP45 · Check any screen-top fixture

Parts: Actual fixture and bulb; left steel support pair

Before you begin: Two pounds (0.91 kg) is only a proposed design limit, not a tested roof capacity.

Roof support strips · underside plan



Strip centers: $x = 4$ and $8 \frac{1}{2}$ in
(101.6 / 215.9 mm)

Ends: $y = 3 \frac{1}{4}$ and $14 \frac{3}{4}$ in
(82.55 / 374.65 mm)

Bolt rows: $y = 3 \frac{1}{2}$ and $14 \frac{1}{2}$ in
(88.9 / 368.3 mm)

Fixture center: $x 6 \frac{1}{4}$, $y 9$ in
(158.75 / 228.6 mm)

Two $1 \times \frac{1}{8} \times 11 \frac{1}{2}$ in (25.4 × 3.18 × 292.1 mm) steel strips. Measure actual recess depth.

Four fixture contacts and thermal clearances require actual verification. This is not a tested load rating.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Check any screen-top fixture

1. For optional screen-top heat, place the fixture over the LEFT support pair, centre $6 \frac{1}{4}$ in (158.75 mm) from the roof left edge and 9 in (228.6 mm) from its front. The actual flat, rigid rim must be $5 \frac{1}{2}$ in (139.7 mm)–6 in (152.4 mm) across, maximum 6 in (152.4 mm) overall, with four contacts over both steel strips through the screen. Verify all four contacts on the actual build.
2. Weigh fixture and bulb together. Two pounds (0.91 kg) is a proposed design limit, not a tested roof rating. Use only a fixture whose maker permits screen-top placement; the Fluker Mini Sun Dome is an example to check, not a guaranteed dimensional fit or a bulb prescription. Its website dimensions do not replace measuring the actual fixture. No hanging load or lamp on unsupported mesh.

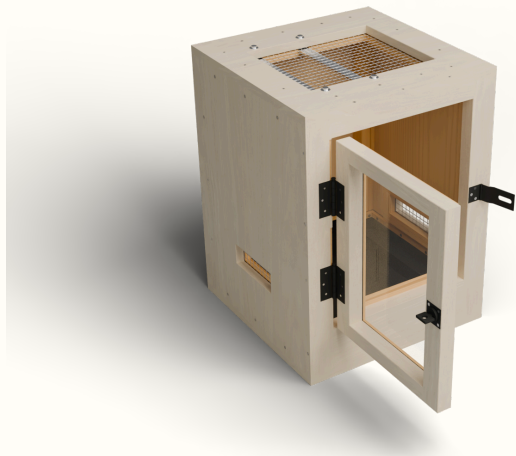
Check before continuing: Measure the rim, weigh the full fixture and prove all four contacts.

OP46 · Set heat, wiring and controls

Parts: Exact equipment, thermostat, guards and wiring

Before you begin: The 1/4 in (6.35 mm) geometric edge margin is not a thermal clearance.

Empty commissioning precedes occupancy



Verify actual fixture instructions, heat clearance, four contacts and measured conditions.
The roof geometry and decorative finish do not supply a load rating or species approval.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Set heat, wiring and controls

1. Keep the roof area beyond 9 1/2 in (241.3 mm) from the left edge free of heat fixtures, provide shade and measure the actual warm-to-cool gradient. The nominal 1/4 in (6.35 mm) geometric margin to the left wood edge is not a thermal clearance. Follow the exact lamp/bulb combustible clearances; keep radiant heat off wood, coating, glazing and cable.
2. An internal fixture is an alternative only when its maker permits that mounting, with the specified guard, secure fixing, wiring and clearances. An exterior support stand is not required. Select thermostat, probe location, ultraviolet-B (UVB) and furnishings for the intended species and commission the enclosure empty before occupancy.

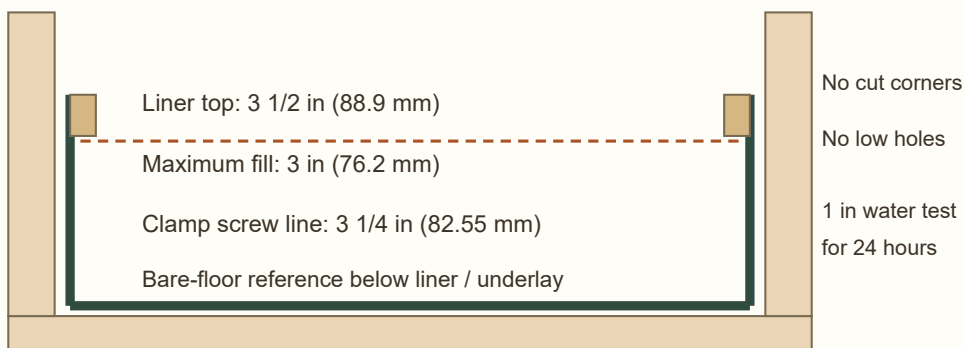
Check before continuing: Actual equipment instructions and species-specific commissioning plan satisfied.

OP47 · Commission empty and record acceptance

Parts: Completed shell and planned furnishings

Before you begin: No species suitability or physical safety approval follows from this guide.

Basin heights · all measured from the bare floor



This enlarged section shows reference heights; bottom supports occupy part of the lined space. Never measure fill upward from a raised support. Substrate sits below the marked maximum fill line.

N14 · V5 candidate 01 · inches first; mm = millimetres · reference geometry

Commission empty and record acceptance

1. Keep substrate at or below 3 in (76.2 mm) above the bare plywood floor reference edge and a clear airflow path through both inlets and roof. This guide supplies an indoor, moderate-humidity shell with a lined 3 in (76.2 mm) substrate basin, not an aquarium or rain chamber; it does not establish animal or feeder containment, species suitability or measured ventilation performance.
2. After moving, cleaning or equipment changes, check screws, mesh capture, bolt engagement, glazing, restraint, freely moving hinge pins and keyless closure. Replace damaged parts and recheck the measured conditions before use.

Check before continuing: Measured containment, ventilation, temperature and humidity accepted before occupancy.

How to use the exact station schedule

Every start point is X from outside LEFT, Y from outside FRONT, Z from the FLOOR UNDERSIDE, in inches with millimetres below. The direction is the drilling/screw direction. Draw those datums on a setup board before loose door/frame work. Physical hardware is traced from accepted samples; nominal points are cross-checks, not a substitute for the trial.

Shell screws start at the new veneer surface. Their reference ends are 0.0305 in (0.775 mm) shallower in the receiver than in the raw case. Veneer is excluded from hinge, latch and upper washer bearing seats, so those hardware coordinates remain on their original planes.

Fastener group	Installed / purchase
Shell #8 × 1 3/4 in (44.45 mm)	72 / 2 boxes of 40
Lamination / hinge / clamps #8 × 1 in (25.4 mm)	26 + 12 + 18 = 56 / 1 box of 100
Retention #8 × 1 1/4 in (31.75 mm)	36 / 1 box of 45
Glazing #4 × 1 in (25.4 mm)	12 / 1 box of 100
Latch #10 × 5/8 in (15.88 mm)	7 / 1 pack of 12
Roof bolts 1/4-20 × 2 in (50.8 mm)	4 / 2 packs of 3
Washers / Keps nuts	8 single washers / 2 two-nut packs

[Versioned specification](#) · [Cut CSV](#) · [Exact fastener CSV](#) · [Current BOM](#) · [Model/drawings/reference ZIP](#)

Fastener stations · 1–18

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J001	P03L → CLB	-0.0305 / 4 / 1.47 in -0.77 / 101.60 / 37.34 mm	+X · 1 3/4 in (44.45 mm)
J002	P03L → CLB	-0.0305 / 9 / 1.47 in -0.77 / 228.60 / 37.34 mm	+X · 1 3/4 in (44.45 mm)
J003	P03L → CLB	-0.0305 / 14 / 1.47 in -0.77 / 355.60 / 37.34 mm	+X · 1 3/4 in (44.45 mm)
J004	P03L → CLT	-0.0305 / 4 / 22.53 in -0.77 / 101.60 / 572.26 mm	+X · 1 3/4 in (44.45 mm)
J005	P03L → CLT	-0.0305 / 9 / 22.53 in -0.77 / 228.60 / 572.26 mm	+X · 1 3/4 in (44.45 mm)
J006	P03L → CLT	-0.0305 / 14 / 22.53 in -0.77 / 355.60 / 572.26 mm	+X · 1 3/4 in (44.45 mm)
J007	P03L → CLV	-0.0305 / 16.53 / 6 in -0.77 / 419.86 / 152.40 mm	+X · 1 3/4 in (44.45 mm)
J008	P03L → CLV	-0.0305 / 16.53 / 12 in -0.77 / 419.86 / 304.80 mm	+X · 1 3/4 in (44.45 mm)
J010	P03L → CLV	-0.0305 / 16.53 / 18 in -0.77 / 419.86 / 457.20 mm	+X · 1 3/4 in (44.45 mm)
J011	P03L → FAL	-0.0305 / 0.3125 / 3 in -0.77 / 7.94 / 76.20 mm	+X · 1 3/4 in (44.45 mm)
J012	P03L → FAL	-0.0305 / 0.3125 / 10 in -0.77 / 7.94 / 254.00 mm	+X · 1 3/4 in (44.45 mm)
J013	P03L → FAL	-0.0305 / 0.3125 / 15 in -0.77 / 7.94 / 381.00 mm	+X · 1 3/4 in (44.45 mm)
J015	P03L → FAL	-0.0305 / 0.3125 / 21 in -0.77 / 7.94 / 533.40 mm	+X · 1 3/4 in (44.45 mm)
J016	P03R → CRB	18.0305 / 4 / 1.47 in 457.97 / 101.60 / 37.34 mm	-X · 1 3/4 in (44.45 mm)
J017	P03R → CRB	18.0305 / 9 / 1.47 in 457.97 / 228.60 / 37.34 mm	-X · 1 3/4 in (44.45 mm)
J018	P03R → CRB	18.0305 / 14 / 1.47 in 457.97 / 355.60 / 37.34 mm	-X · 1 3/4 in (44.45 mm)
J019	P03R → CRT	18.0305 / 4 / 22.53 in 457.97 / 101.60 / 572.26 mm	-X · 1 3/4 in (44.45 mm)
J020	P03R → CRT	18.0305 / 9 / 22.53 in 457.97 / 228.60 / 572.26 mm	-X · 1 3/4 in (44.45 mm)

Fastener stations · 19–36

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J021	P03R → CRT	18.0305 / 14 / 22.53 in 457.97 / 355.60 / 572.26 mm	–X · 1 3/4 in (44.45 mm)
J022	P03R → CRV	18.0305 / 16.53 / 6 in 457.97 / 419.86 / 152.40 mm	–X · 1 3/4 in (44.45 mm)
J023	P03R → CRV	18.0305 / 16.53 / 12 in 457.97 / 419.86 / 304.80 mm	–X · 1 3/4 in (44.45 mm)
J025	P03R → CRV	18.0305 / 16.53 / 18 in 457.97 / 419.86 / 457.20 mm	–X · 1 3/4 in (44.45 mm)
J026	P03R → FAR	18.0305 / 0.3125 / 3 in 457.97 / 7.94 / 76.20 mm	–X · 1 3/4 in (44.45 mm)
J027	P03R → FAR	18.0305 / 0.3125 / 10 in 457.97 / 7.94 / 254.00 mm	–X · 1 3/4 in (44.45 mm)
J028	P03R → FAR	18.0305 / 0.3125 / 15 in 457.97 / 7.94 / 381.00 mm	–X · 1 3/4 in (44.45 mm)
J030	P03R → FAR	18.0305 / 0.3125 / 21 in 457.97 / 7.94 / 533.40 mm	–X · 1 3/4 in (44.45 mm)
J031	P04 → CLV	1.47 / 18.0305 / 8 in 37.34 / 457.97 / 203.20 mm	–Y · 1 3/4 in (44.45 mm)
J032	P04 → CLV	1.47 / 18.0305 / 14 in 37.34 / 457.97 / 355.60 mm	–Y · 1 3/4 in (44.45 mm)
J033	P04 → CLV	1.47 / 18.0305 / 20 in 37.34 / 457.97 / 508.00 mm	–Y · 1 3/4 in (44.45 mm)
J035	P04 → CRV	16.53 / 18.0305 / 8 in 419.86 / 457.97 / 203.20 mm	–Y · 1 3/4 in (44.45 mm)
J036	P04 → CRV	16.53 / 18.0305 / 14 in 419.86 / 457.97 / 355.60 mm	–Y · 1 3/4 in (44.45 mm)
J037	P04 → CRV	16.53 / 18.0305 / 20 in 419.86 / 457.97 / 508.00 mm	–Y · 1 3/4 in (44.45 mm)
J039	P04 → CBB	5 / 18.0305 / 1.47 in 127.00 / 457.97 / 37.34 mm	–Y · 1 3/4 in (44.45 mm)
J040	P04 → CBB	9 / 18.0305 / 1.47 in 228.60 / 457.97 / 37.34 mm	–Y · 1 3/4 in (44.45 mm)
J041	P04 → CBB	13 / 18.0305 / 1.47 in 330.20 / 457.97 / 37.34 mm	–Y · 1 3/4 in (44.45 mm)
J042	P04 → CBT	3 / 18.0305 / 22.53 in 76.20 / 457.97 / 572.26 mm	–Y · 1 3/4 in (44.45 mm)

Fastener stations • 37–54

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J043	P04 → CBT	5 / 18.0305 / 22.53 in 127.00 / 457.97 / 572.26 mm	–Y · 1 3/4 in (44.45 mm)
J044	P04 → CBT	13 / 18.0305 / 22.53 in 330.20 / 457.97 / 572.26 mm	–Y · 1 3/4 in (44.45 mm)
J045	P01 → CLB	1.47 / 5.5 / -0.0305 in 37.34 / 139.70 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J046	P01 → CLB	1.47 / 11.5 / -0.0305 in 37.34 / 292.10 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J047	P01 → CLB	1.47 / 15 / -0.0305 in 37.34 / 381.00 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J048	P01 → CRB	16.53 / 5.5 / -0.0305 in 419.86 / 139.70 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J049	P01 → CRB	16.53 / 11.5 / -0.0305 in 419.86 / 292.10 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J050	P01 → CRB	16.53 / 15 / -0.0305 in 419.86 / 381.00 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J051	P01 → CFB	4 / 2 / -0.0305 in 101.60 / 50.80 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J052	P01 → CFB	8 / 2 / -0.0305 in 203.20 / 50.80 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J053	P01 → CFB	12 / 2 / -0.0305 in 304.80 / 50.80 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J054	P01 → CFB	15 / 2 / -0.0305 in 381.00 / 50.80 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J055	P01 → CBB	4 / 16.53 / -0.0305 in 101.60 / 419.86 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J056	P01 → CBB	8 / 16.53 / -0.0305 in 203.20 / 419.86 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J057	P01 → CBB	12 / 16.53 / -0.0305 in 304.80 / 419.86 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J058	P01 → CBB	15 / 16.53 / -0.0305 in 381.00 / 419.86 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J059	P01 → FAB	4.5 / 0.3125 / -0.0305 in 114.30 / 7.94 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J060	P01 → FAB	9 / 0.3125 / -0.0305 in 228.60 / 7.94 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)

Fastener stations · 55–72

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J061	P01 → FAB	13.5 / 0.3125 / -0.0305 in 342.90 / 7.94 / -0.77 mm	+Z · 1 3/4 in (44.45 mm)
J062	P02 → CLT	1.47 / 5.5 / 24.0305 in 37.34 / 139.70 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J063	P02 → CLT	1.47 / 11.5 / 24.0305 in 37.34 / 292.10 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J064	P02 → CLT	1.47 / 15 / 24.0305 in 37.34 / 381.00 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J065	P02 → CRT	16.53 / 5.5 / 24.0305 in 419.86 / 139.70 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J066	P02 → CRT	16.53 / 11.5 / 24.0305 in 419.86 / 292.10 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J067	P02 → CRT	16.53 / 15 / 24.0305 in 419.86 / 381.00 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J068	P02 → CFT	4 / 2 / 24.0305 in 101.60 / 50.80 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J069	P02 → CFT	8 / 2 / 24.0305 in 203.20 / 50.80 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J070	P02 → CFT	12 / 2 / 24.0305 in 304.80 / 50.80 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J071	P02 → CFT	15 / 2 / 24.0305 in 381.00 / 50.80 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J072	P02 → CBT	4 / 16.53 / 24.0305 in 101.60 / 419.86 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J073	P02 → CBT	8 / 16.53 / 24.0305 in 203.20 / 419.86 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J074	P02 → CBT	12 / 16.53 / 24.0305 in 304.80 / 419.86 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J075	P02 → CBT	15 / 16.53 / 24.0305 in 381.00 / 419.86 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J076	P02 → FAT	4.5 / 0.3125 / 24.0305 in 114.30 / 7.94 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J077	P02 → FAT	9 / 0.3125 / 24.0305 in 228.60 / 7.94 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)
J078	P02 → FAT	13.5 / 0.3125 / 24.0305 in 342.90 / 7.94 / 610.37 mm	-Z · 1 3/4 in (44.45 mm)

Fastener stations • 73–90

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J079	FBB → FAL	1.47 / 1.25 / 1.47 in 37.34 / 31.75 / 37.34 mm	–Y · 1 in (25.4 mm)
J080	FBB → FAL	1.47 / 1.25 / 4 in 37.34 / 31.75 / 101.60 mm	–Y · 1 in (25.4 mm)
J081	FBL → FAL	1.47 / 1.25 / 8 in 37.34 / 31.75 / 203.20 mm	–Y · 1 in (25.4 mm)
J082	FBL → FAL	1.47 / 1.25 / 14 in 37.34 / 31.75 / 355.60 mm	–Y · 1 in (25.4 mm)
J083	FBL → FAL	1.47 / 1.25 / 20 in 37.34 / 31.75 / 508.00 mm	–Y · 1 in (25.4 mm)
J086	FBT → FAL	1.47 / 1.25 / 22.53 in 37.34 / 31.75 / 572.26 mm	–Y · 1 in (25.4 mm)
J087	FBB → FAR	16.53 / 1.25 / 1.47 in 419.86 / 31.75 / 37.34 mm	–Y · 1 in (25.4 mm)
J088	FBB → FAR	16.53 / 1.25 / 4 in 419.86 / 31.75 / 101.60 mm	–Y · 1 in (25.4 mm)
J089	FBR → FAR	16.53 / 1.25 / 8 in 419.86 / 31.75 / 203.20 mm	–Y · 1 in (25.4 mm)
J090	FBR → FAR	16.53 / 1.25 / 14 in 419.86 / 31.75 / 355.60 mm	–Y · 1 in (25.4 mm)
J091	FBR → FAR	16.53 / 1.25 / 20 in 419.86 / 31.75 / 508.00 mm	–Y · 1 in (25.4 mm)
J094	FBT → FAR	16.53 / 1.25 / 22.53 in 419.86 / 31.75 / 572.26 mm	–Y · 1 in (25.4 mm)
J095	FBB → FAB	5.5 / 1.25 / 2.5 in 139.70 / 31.75 / 63.50 mm	–Y · 1 in (25.4 mm)
J096	FBB → FAB	11.5 / 1.25 / 2.5 in 292.10 / 31.75 / 63.50 mm	–Y · 1 in (25.4 mm)
J097	FBT → FAT	5.5 / 1.25 / 22.53 in 139.70 / 31.75 / 572.26 mm	–Y · 1 in (25.4 mm)
J098	FBT → FAT	11.5 / 1.25 / 22.53 in 292.10 / 31.75 / 572.26 mm	–Y · 1 in (25.4 mm)
J099	DBB → DAL	3.22 / 1.25 / 5.47 in 81.79 / 31.75 / 138.94 mm	–Y · 1 in (25.4 mm)
J100	DBL → DAL	3.22 / 1.25 / 10 in 81.79 / 31.75 / 254.00 mm	–Y · 1 in (25.4 mm)

Fastener stations · 91–108

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J101	DBL → DAL	3.22 / 1.25 / 16 in 81.79 / 31.75 / 406.40 mm	–Y · 1 in (25.4 mm)
J104	DBT → DAL	3.22 / 1.25 / 21.03 in 81.79 / 31.75 / 534.16 mm	–Y · 1 in (25.4 mm)
J105	DBB → DAR	14.7175 / 1.25 / 5.47 in 373.82 / 31.75 / 138.94 mm	–Y · 1 in (25.4 mm)
J106	DBR → DAR	14.7175 / 1.25 / 10 in 373.82 / 31.75 / 254.00 mm	–Y · 1 in (25.4 mm)
J107	DBR → DAR	14.7175 / 1.25 / 16 in 373.82 / 31.75 / 406.40 mm	–Y · 1 in (25.4 mm)
J110	DBT → DAR	14.7175 / 1.25 / 21.03 in 373.82 / 31.75 / 534.16 mm	–Y · 1 in (25.4 mm)
J111	DBB → DAB	9 / 1.25 / 5.47 in 228.60 / 31.75 / 138.94 mm	–Y · 1 in (25.4 mm)
J112	DBT → DAT	9 / 1.25 / 21.03 in 228.60 / 31.75 / 534.16 mm	–Y · 1 in (25.4 mm)
J113	VLB → P03L	1.47 / 6 / 5.22 in 37.34 / 152.40 / 132.59 mm	–X · 1 1/4 in (31.75 mm)
J114	VLB → P03L	1.47 / 9 / 5.22 in 37.34 / 228.60 / 132.59 mm	–X · 1 1/4 in (31.75 mm)
J115	VLB → P03L	1.47 / 12 / 5.22 in 37.34 / 304.80 / 132.59 mm	–X · 1 1/4 in (31.75 mm)
J116	VLT → P03L	1.47 / 6 / 8.22 in 37.34 / 152.40 / 208.79 mm	–X · 1 1/4 in (31.75 mm)
J117	VLT → P03L	1.47 / 9 / 8.22 in 37.34 / 228.60 / 208.79 mm	–X · 1 1/4 in (31.75 mm)
J118	VLT → P03L	1.47 / 12 / 8.22 in 37.34 / 304.80 / 208.79 mm	–X · 1 1/4 in (31.75 mm)
J119	VLSF → P03L	1.47 / 5.5 / 6.72 in 37.34 / 139.70 / 170.69 mm	–X · 1 1/4 in (31.75 mm)
J120	VLSB → P03L	1.47 / 12.5 / 6.72 in 37.34 / 317.50 / 170.69 mm	–X · 1 1/4 in (31.75 mm)
J121	VRB → P03R	16.53 / 6 / 5.22 in 419.86 / 152.40 / 132.59 mm	+X · 1 1/4 in (31.75 mm)
J122	VRB → P03R	16.53 / 9 / 5.22 in 419.86 / 228.60 / 132.59 mm	+X · 1 1/4 in (31.75 mm)

Fastener stations · 109–126

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J123	VRB → P03R	16.53 / 12 / 5.22 in 419.86 / 304.80 / 132.59 mm	+X · 1 1/4 in (31.75 mm)
J124	VRT → P03R	16.53 / 6 / 8.22 in 419.86 / 152.40 / 208.79 mm	+X · 1 1/4 in (31.75 mm)
J125	VRT → P03R	16.53 / 9 / 8.22 in 419.86 / 228.60 / 208.79 mm	+X · 1 1/4 in (31.75 mm)
J126	VRT → P03R	16.53 / 12 / 8.22 in 419.86 / 304.80 / 208.79 mm	+X · 1 1/4 in (31.75 mm)
J127	VRSF → P03R	16.53 / 5.5 / 6.72 in 419.86 / 139.70 / 170.69 mm	+X · 1 1/4 in (31.75 mm)
J128	VRSB → P03R	16.53 / 12.5 / 6.72 in 419.86 / 317.50 / 170.69 mm	+X · 1 1/4 in (31.75 mm)
J129	RF → P02	5.25 / 3.5 / 22.53 in 133.35 / 88.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J130	RF → P02	7.5 / 3.5 / 22.53 in 190.50 / 88.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J131	RF → P02	10.5 / 3.5 / 22.53 in 266.70 / 88.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J132	RF → P02	13.5 / 3.5 / 22.53 in 342.90 / 88.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J133	RB → P02	5.25 / 14.5 / 22.53 in 133.35 / 368.30 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J134	RB → P02	7.5 / 14.5 / 22.53 in 190.50 / 368.30 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J135	RB → P02	10.5 / 14.5 / 22.53 in 266.70 / 368.30 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J136	RB → P02	13.5 / 14.5 / 22.53 in 342.90 / 368.30 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J137	RL → P02	2.625 / 5.5 / 22.53 in 66.67 / 139.70 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J138	RL → P02	2.625 / 8.5 / 22.53 in 66.67 / 215.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J139	RL → P02	2.625 / 11.5 / 22.53 in 66.67 / 292.10 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J140	RR → P02	15.375 / 5.5 / 22.53 in 390.52 / 139.70 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)

Fastener stations · 127–144

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J141	RR → P02	15.375 / 8.5 / 22.53 in 390.52 / 215.90 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J142	RR → P02	15.375 / 11.5 / 22.53 in 390.52 / 292.10 / 572.26 mm	+Z · 1 1/4 in (31.75 mm)
J143	S01 → FBB	5 / 2 / 4.47 in 127.00 / 50.80 / 113.54 mm	−Y · 1 1/4 in (31.75 mm)
J144	S02 → CFT	5 / 1.625 / 21.28 in 127.00 / 41.27 / 540.51 mm	+Z · 1 1/4 in (31.75 mm)
J145	S01 → FBB	9 / 2 / 4.47 in 228.60 / 50.80 / 113.54 mm	−Y · 1 1/4 in (31.75 mm)
J146	S02 → CFT	9 / 1.625 / 21.28 in 228.60 / 41.27 / 540.51 mm	+Z · 1 1/4 in (31.75 mm)
J147	S01 → FBB	13 / 2 / 4.47 in 330.20 / 50.80 / 113.54 mm	−Y · 1 1/4 in (31.75 mm)
J148	S02 → CFT	13 / 1.625 / 21.28 in 330.20 / 41.27 / 540.51 mm	+Z · 1 1/4 in (31.75 mm)
J149	BL → DBL	3.4075 / 1.8125 / 7.5 in 86.55 / 46.04 / 190.50 mm	−Y · 1 in (25.4 mm)
J150	BL → DBL	3.4075 / 1.8125 / 11.5 in 86.55 / 46.04 / 292.10 mm	−Y · 1 in (25.4 mm)
J151	BL → DBL	3.4075 / 1.8125 / 15.5 in 86.55 / 46.04 / 393.70 mm	−Y · 1 in (25.4 mm)
J154	BL → DBL	3.4075 / 1.8125 / 19.5 in 86.55 / 46.04 / 495.30 mm	−Y · 1 in (25.4 mm)
J155	BR → DBR	14.53 / 1.8125 / 7.5 in 369.06 / 46.04 / 190.50 mm	−Y · 1 in (25.4 mm)
J156	BR → DBR	14.53 / 1.8125 / 11.5 in 369.06 / 46.04 / 292.10 mm	−Y · 1 in (25.4 mm)
J157	BR → DBR	14.53 / 1.8125 / 15.5 in 369.06 / 46.04 / 393.70 mm	−Y · 1 in (25.4 mm)
J160	BR → DBR	14.53 / 1.8125 / 19.5 in 369.06 / 46.04 / 495.30 mm	−Y · 1 in (25.4 mm)
J161	BB → DBB	6 / 1.8125 / 5.43875 in 152.40 / 46.04 / 138.14 mm	−Y · 1 in (25.4 mm)
J162	BB → DBB	12 / 1.8125 / 5.43875 in 304.80 / 46.04 / 138.14 mm	−Y · 1 in (25.4 mm)

Fastener stations · 145–162

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J163	BT → DBT	6 / 1.8125 / 21.06125 in 152.40 / 46.04 / 534.96 mm	−Y · 1 in (25.4 mm)
J164	BT → DBT	12 / 1.8125 / 21.06125 in 304.80 / 46.04 / 534.96 mm	−Y · 1 in (25.4 mm)
HP1	hardware → FAR	16.1 / -0.03875 / 13 in 408.94 / -0.98 / 330.20 mm	+Y · 5/8 in (15.88 mm)
HP2	hardware → FAR	16.47 / -0.03875 / 13.5 in 418.34 / -0.98 / 342.90 mm	+Y · 5/8 in (15.88 mm)
HP3	hardware → FAR	16.57 / -0.03875 / 12.5 in 420.88 / -0.98 / 317.50 mm	+Y · 5/8 in (15.88 mm)
ST1	hardware → DAR	14.22 / -0.03875 / 12.44 in 361.19 / -0.98 / 315.98 mm	+Y · 5/8 in (15.88 mm)
ST2	hardware → DAR	15.34 / -0.03875 / 12.44 in 389.64 / -0.98 / 315.98 mm	+Y · 5/8 in (15.88 mm)
ST3	hardware → DAR	14.22 / -0.03875 / 13.56 in 361.19 / -0.98 / 344.42 mm	+Y · 5/8 in (15.88 mm)
ST4	hardware → DAR	15.34 / -0.03875 / 13.56 in 389.64 / -0.98 / 344.42 mm	+Y · 5/8 in (15.88 mm)
H1F1	hardware → FAL	1.5625 / -0.04875 / 8.3425 in 39.69 / -1.24 / 211.90 mm	+Y · 1 in (25.4 mm)
H1F2	hardware → FAL	1.3425 / -0.04875 / 9.3125 in 34.10 / -1.24 / 236.54 mm	+Y · 1 in (25.4 mm)
H1F3	hardware → FAL	1.5625 / -0.04875 / 10.2825 in 39.69 / -1.24 / 261.18 mm	+Y · 1 in (25.4 mm)
H1D1	hardware → DAL	3.0025 / -0.04875 / 8.3425 in 76.26 / -1.24 / 211.90 mm	+Y · 1 in (25.4 mm)
H1D2	hardware → DAL	3.2225 / -0.04875 / 9.3125 in 81.85 / -1.24 / 236.54 mm	+Y · 1 in (25.4 mm)
H1D3	hardware → DAL	3.0025 / -0.04875 / 10.2825 in 76.26 / -1.24 / 261.18 mm	+Y · 1 in (25.4 mm)
H2F1	hardware → FAL	1.5625 / -0.04875 / 15.8425 in 39.69 / -1.24 / 402.40 mm	+Y · 1 in (25.4 mm)
H2F2	hardware → FAL	1.3425 / -0.04875 / 16.8125 in 34.10 / -1.24 / 427.04 mm	+Y · 1 in (25.4 mm)
H2F3	hardware → FAL	1.5625 / -0.04875 / 17.7825 in 39.69 / -1.24 / 451.68 mm	+Y · 1 in (25.4 mm)

Fastener stations · 163–180

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
H2D1	hardware → DAL	3.0025 / -0.04875 / 15.8425 in 76.26 / -1.24 / 402.40 mm	+Y · 1 in (25.4 mm)
H2D2	hardware → DAL	3.2225 / -0.04875 / 16.8125 in 81.85 / -1.24 / 427.04 mm	+Y · 1 in (25.4 mm)
H2D3	hardware → DAL	3.0025 / -0.04875 / 17.7825 in 76.26 / -1.24 / 451.68 mm	+Y · 1 in (25.4 mm)
J201	LCL → P03L	1.175 / 14.325 / 3.97 in 29.85 / 363.85 / 100.84 mm	-X · 1 in (25.4 mm)
J202	LCL → P03L	1.175 / 10.45167 / 3.97 in 29.85 / 265.47 / 100.84 mm	-X · 1 in (25.4 mm)
J203	LCL → P03L	1.175 / 6.57833 / 3.97 in 29.85 / 167.09 / 100.84 mm	-X · 1 in (25.4 mm)
J204	LCL → P03L	1.175 / 2.705 / 3.97 in 29.85 / 68.71 / 100.84 mm	-X · 1 in (25.4 mm)
J205	LCR → P03R	16.825 / 14.325 / 3.97 in 427.35 / 363.85 / 100.84 mm	+X · 1 in (25.4 mm)
J206	LCR → P03R	16.825 / 10.45167 / 3.97 in 427.35 / 265.47 / 100.84 mm	+X · 1 in (25.4 mm)
J207	LCR → P03R	16.825 / 6.57833 / 3.97 in 427.35 / 167.09 / 100.84 mm	+X · 1 in (25.4 mm)
J208	LCR → P03R	16.825 / 2.705 / 3.97 in 427.35 / 68.71 / 100.84 mm	+X · 1 in (25.4 mm)
J209	LCF → FBB	2.8 / 1.705 / 3.97 in 71.12 / 43.31 / 100.84 mm	-Y · 1 in (25.4 mm)
J210	LCF → FBB	6.93333 / 1.705 / 3.97 in 176.11 / 43.31 / 100.84 mm	-Y · 1 in (25.4 mm)
J211	LCF → FBB	11.06667 / 1.705 / 3.97 in 281.09 / 43.31 / 100.84 mm	-Y · 1 in (25.4 mm)
J212	LCF → FBB	15.2 / 1.705 / 3.97 in 386.08 / 43.31 / 100.84 mm	-Y · 1 in (25.4 mm)
J213	LCB → P04	3.3 / 16.825 / 3.97 in 83.82 / 427.35 / 100.84 mm	+Y · 1 in (25.4 mm)
J214	LCB → P04	7.1 / 16.825 / 3.97 in 180.34 / 427.35 / 100.84 mm	+Y · 1 in (25.4 mm)
J215	LCB → P04	10.9 / 16.825 / 3.97 in 276.86 / 427.35 / 100.84 mm	+Y · 1 in (25.4 mm)

Fastener stations · 181–183

X / Y / Z from outside LEFT / FRONT / FLOOR UNDERSIDE. Start coordinates include the veneer entry shift where applicable. Trace actual hardware only after its accepted sample fit.

ID	Through → receiver	Start X / Y / Z	Direction / nominal length
J216	LCB → P04	14.7 / 16.825 / 3.97 in 373.38 / 427.35 / 100.84 mm	+Y · 1 in (25.4 mm)
J217	LCPL → CLV	1.47 / 15.325 / 3.97 in 37.34 / 389.26 / 100.84 mm	+Y · 1 in (25.4 mm)
J218	LCPR → CRV	16.53 / 15.325 / 3.97 in 419.86 / 389.26 / 100.84 mm	+Y · 1 in (25.4 mm)

Openings and service cuts

Cut / part	Lower corner X / Y / Z	Size X × Y × Z
CUT-left-inlet / P03L	0 in (0 mm) / 6 in (152.4 mm) / 5.72 in (145.29 mm)	0.72 in (18.29 mm) × 6 in (152.4 mm) × 2 in (50.8 mm)
CUT-right-inlet / P03R	17.28 in (438.91 mm) / 6 in (152.4 mm) / 5.72 in (145.29 mm)	0.72 in (18.29 mm) × 6 in (152.4 mm) × 2 in (50.8 mm)
CUT-roof / P02	3 in (76.2 mm) / 4 in (101.6 mm) / 23.28 in (591.31 mm)	12 in (304.8 mm) × 10 in (254 mm) × 0.72 in (18.29 mm)
CUT-restraint / P04	6 in (152.4 mm) / 17.28 in (438.91 mm) / 21.905 in (556.39 mm)	6 in (152.4 mm) × 0.72 in (18.29 mm) × 1 1/4 in (31.75 mm)
CUT-hinge-seat-7.8125 / FAL	1.0325 in (26.23 mm) / 0 in (0 mm) / 7 13/16 in (198.44 mm)	1 3/16 in (30.16 mm) × 1/32 in (0.79 mm) × 3 in (76.2 mm)
CUT-hinge-seat-15.3125 / FAL	1.0325 in (26.23 mm) / 0 in (0 mm) / 15 5/16 in (388.94 mm)	1 3/16 in (30.16 mm) × 1/32 in (0.79 mm) × 3 in (76.2 mm)
CUT-pin-lane-10.8125 / FAL	2.0325 in (51.63 mm) / 0 in (0 mm) / 10 13/16 in (274.64 mm)	3/16 in (4.76 mm) × 1/16 in (1.59 mm) × 3 3/8 in (85.72 mm)
CUT-pin-lane-18.3125 / FAL	2.0325 in (51.63 mm) / 0 in (0 mm) / 18 5/16 in (465.14 mm)	3/16 in (4.76 mm) × 1/16 in (1.59 mm) × 3 3/8 in (85.72 mm)
CUT-hasp-seat / FAR	15.79 in (401.07 mm) / 0 in (0 mm) / 12 1/4 in (311.15 mm)	1.28 in (32.51 mm) × 1/32 in (0.79 mm) × 1 1/2 in (38.1 mm)

Coordinates use the same outside assembly datums. Field-transfer hinge/hasp outlines from actual accepted hardware. The exact veneer schedule adds edge strips inside the openings; its cutouts preserve metal seats, pin lanes and upper washer bearing planes.

Receiving and physical acceptance record

Leave blank until measured or performed. Digital validation does not fill these fields.

Required checkpoint	Actual result / date / reviewer
RH01 · Before dependent final cuts Measure delivered wood, mesh, hardware and glazing; exact field-fit procedures must be completed.	
RH02 · Before veneer fabrication Supplier approval of PSA on presealed plywood and pine, coated veneer edges, one-sided panel/door balance and proposed environment; obtain actual application/dwell instructions and full-size trial.	
RH03 · Before final hardware acceptance Measured cured stack at most 0.046 in (1.17 mm), actual perimeter gaps at least 1/16 in (1.59 mm), all metal backing fully supported, original pin release lanes unobstructed; physical full-height trial.	
RH04 · Before installation/occupancy Actual loaded support/floor, restraint kit, species containment, ventilation, cleaning, liner compatibility and equipment heat/load requirements. No prototype or qualified review completed.	

Glue date/time:
Final coat/repair date/time:
Temperature / RH:
Full cure due:
Adhesive dwell and source:
Liner 24-hour test result:
Load, door, restraint, heat and containment checks:

Evidence, limits and maintenance

The direct product listings in Materials identify the selected items and packs. Current identity is separate from local stock, receiving measurements and assembly approval.

- McMaster 1798A21 hinge listing
- National N305-979 nominal hardware drawing
- Titebond III product instructions
- Varathane current application and cure
- Oakwood PSA preparation and application
- Poly Haven veneer textures and CC0 license

Separate statuses: product research, dimensions, calculations and digital checks are documented in the private review. No prototype has been built; no physical tests or qualified review have been completed; publication is separate from construction acceptance. Exact veneer/backing, application dwell, panel balance, actual hardware and installation inputs remain holds.

Remove equipment before roof work. Support the complete door for pin or pane service. Empty, drain and dry the enclosure before releasing liner clamps; replace the liner through the removable roof without destroying the shell. Inspect after cleaning, moving or equipment changes for loose hardware, trapped wire, damaged coating, lifting veneer, leaks and heat damage. Repair, fully cure and recommission before reuse.

Natural grain/color vary. Licensed texture images illustrate appearance and do not represent a delivered supplier sheet.