

8-Chicken Walk-In Coop

DIY BUILD PLAN / v1.1.0

A dimensioned 6 × 8 ft coop with a self-supporting 6 × 8 ft covered run

Dimensioned DIY baseline. Confirm site supports, anchoring, structural loads and selected products before ordering or cutting. Internal geometry and document checks are not site-specific structural approval.

Use this section	What you can do
A01–B07 / drawings	Read the current footprint, members, openings and removable interior fittings.
M / purchase + C / cuts	Price stated quantities, inspect field-fit blanks and reconcile selected-product quotes.
D / connections + S01–S10 / stages	Find the parts, connections, work and check for each stage.
Q01 / checks + changes	Keep local decisions and amendments beside this version.

Internal geometry and document checks only. A documented field build and site-specific structural approval have not been completed.

Read before ordering

Included

- Dimensioned baseline drawings with numbered parts and ten linked stages
- Lumber blanks, panel cuts and kerf-aware stock allocation
- Quantity-led quote worksheet; product/site-dependent items remain open
- Printable stage checks and a revision record

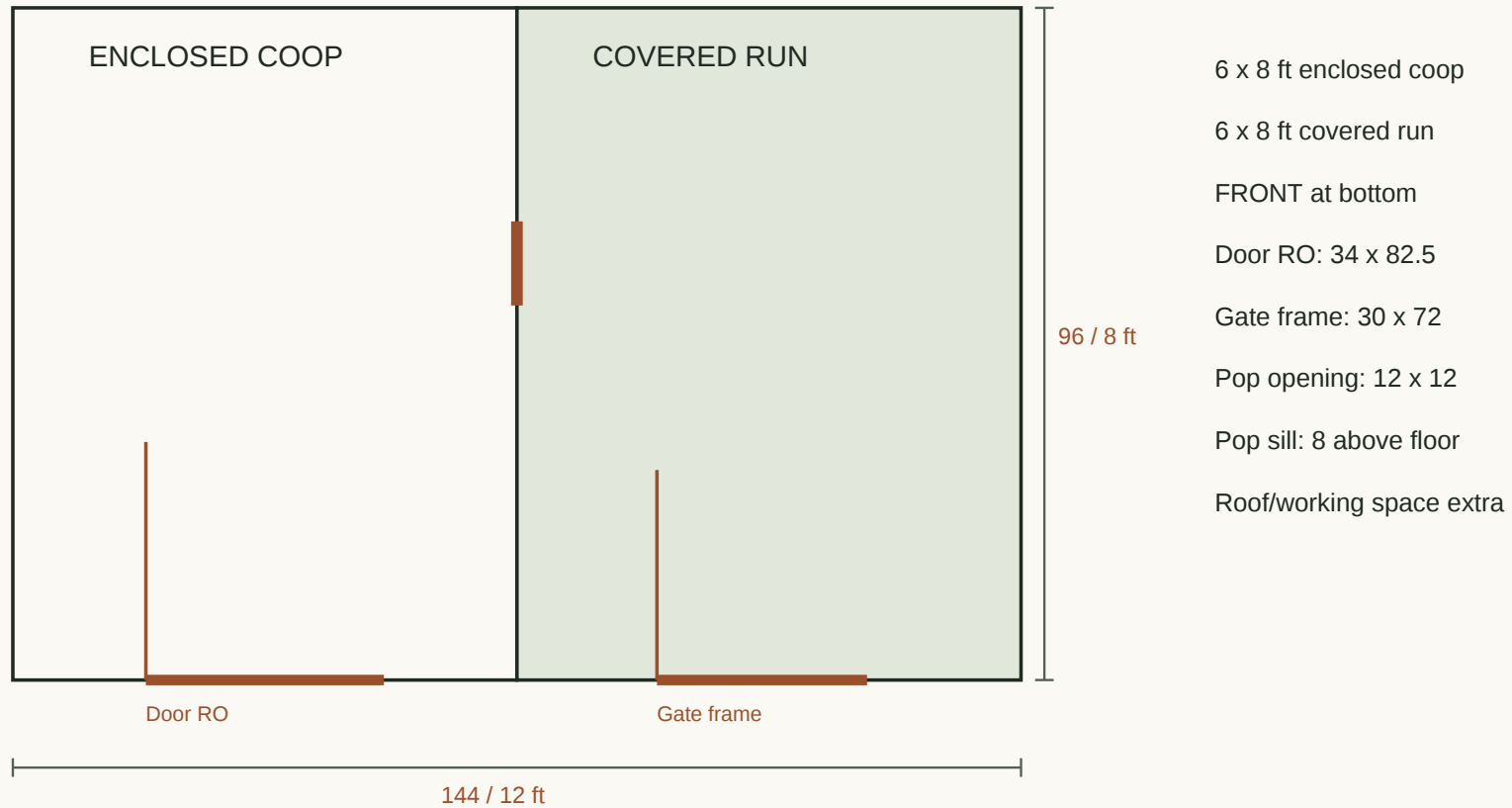
Confirm for your site

- Pier diameter, depth and reinforcement for soil, frost, flood and slope
- Member and connector suitability for local snow, wind and seismic loads
- Setbacks, permits, HOA rules and utility clearance
- Roofing, siding, door and hardware manufacturer requirements

Flock direction: 6–8 hens; confirm the finished space and management routine for the flock

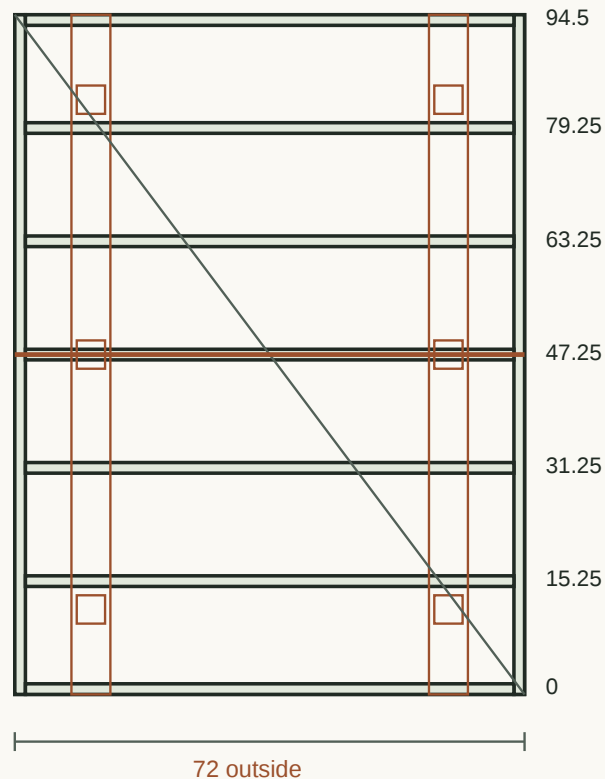
Nominal run roof references do not fix finished post cuts. Actual base elevations, bearing positions, connector standoffs and a tested 2:12 roof template determine those cuts.

A01 / Overall footprint + access



Dimensions in inches. Confirm actual products, bearing, support and local loads.

B01 / Floor members + support references



FL-01: 2 rims, 96 long

FL-02: 7 members, 69 long

1.5 in actual member thickness

Numbers show near faces from front

Panel seam at 48 in on framing

PN-FL: 2 panels, 48 x 72

Floor diagonals: 120 in each

SK-01: 2 skids, 96 long

Orange supports are baseline locations

Confirm support placement locally

Dimensions in inches. Confirm actual products, bearing, support and local loads.

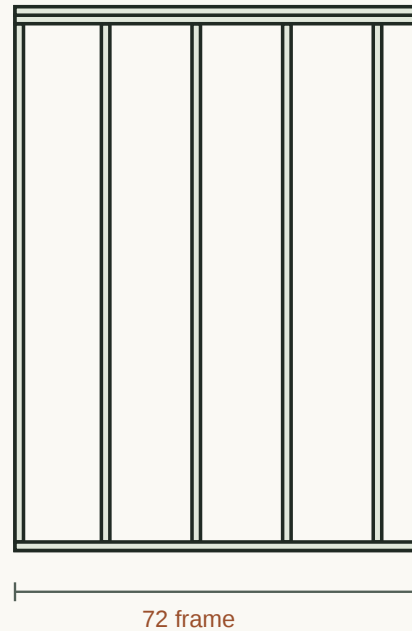
B02 / Front + rear wall frames

FRONT



Jack faces: 19 / 53 from left
DR-02: two 37 in header plies
DR-03: three 5 in cripples

REAR

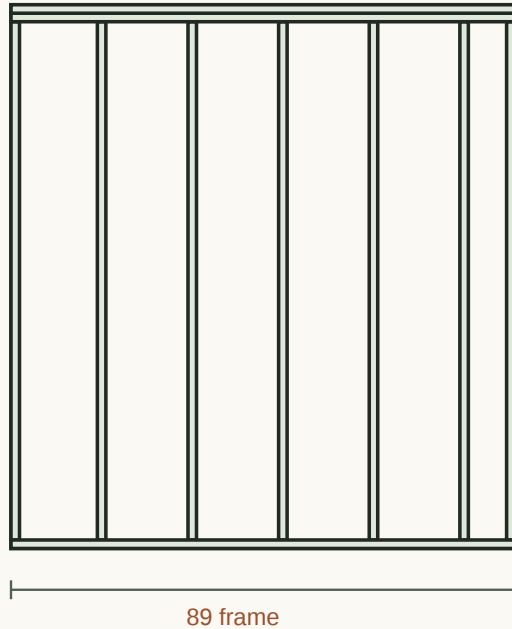


91.5 in full studs + 1.5 bottom
Two 1.5 in top plates = 96 total
Vent position/framing confirmed locally

Dimensions in inches. Confirm actual products, bearing, support and local loads.

B03 / Side + shared-right wall frames

LEFT

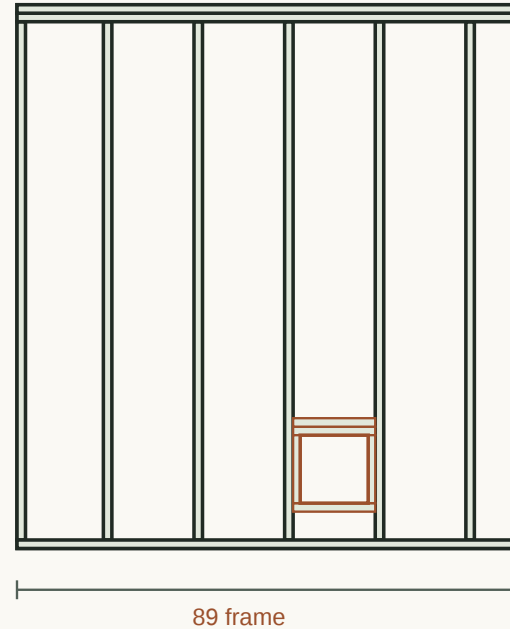


91.5 in full studs + 1.5 bottom

Two 1.5 in top plates = 96 total

Vent position/framing confirmed locally

SHAREDRIGHT



12 x 12 opening; sill 8; local edges 50 / 62

PD-01: 2 top blocks + 1 sill, each 14.5

PD-02: two 12 in packers, ripped to 1.25

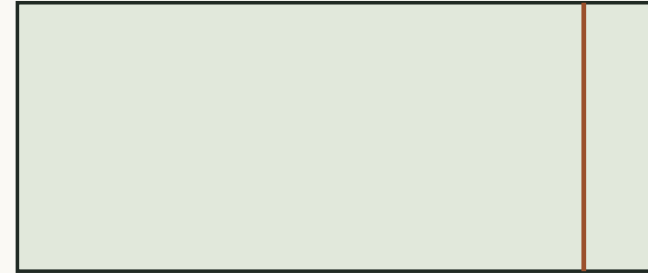
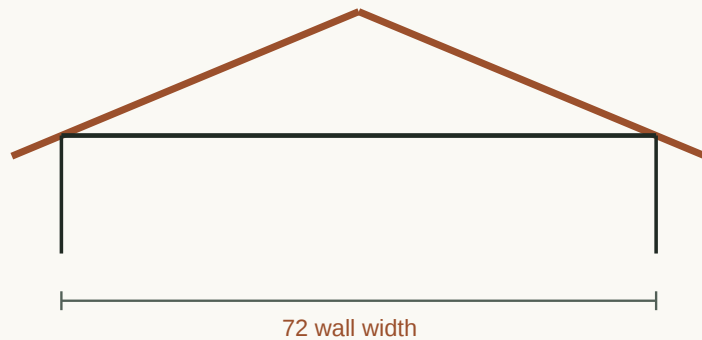
Dimensions in inches. Confirm actual products, bearing, support and local loads.

B04 / Coop roof profile + panel layout

Roofline rise: 15 over half-width 36

5:12 pitch / 6 in nominal overhang

48 in RF-01 blanks: fit one template first



Each slope: 45.5 x 108

96 main panel + 12 infill

RF-02: 108 in ridge board

RF-03: seven 69 in ties

C06: fourteen uplift ties

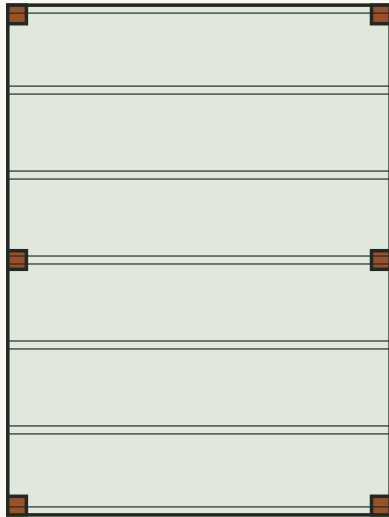
Support every panel seam

Roof height is a baseline datum,
not finished roofing height.

Dimensions in inches. Confirm actual products, bearing, support and local loads.

B05 / Run frame: plan and front profile

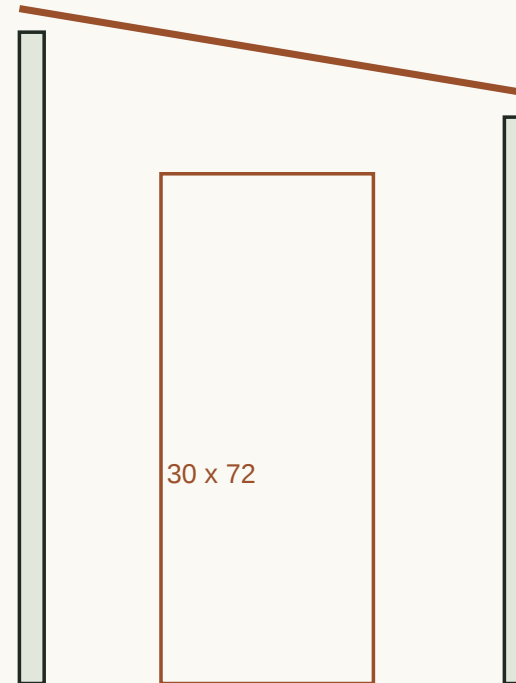
PLAN / coop to left



6 posts / 2 long beams / 7 rafters

RN-05: four roof purlins + side rails

FRONT / roof falls right



Nominal high/low roof reference: 92 / 80

Set actual bearing heights for 2:12 pitch.

Post blanks stay full length until base
standoff and roof seat are confirmed.

Gate jambs and bracing are field-fit.

Dimensions in inches. Confirm actual products, bearing, support and local loads.

B06 / Door header, gate + nesting panels

HUMAN DOOR HEADER

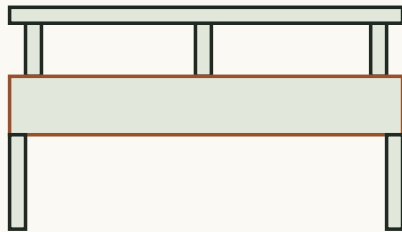
DR-02: 37 in header plies

34 clear + two 1.5 in jacks

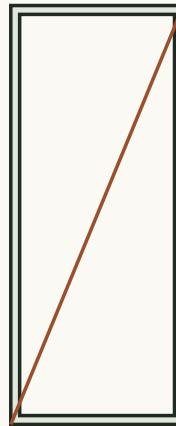
3 in header + 1/2 in spacer

DR-03: 5 in cripples

$93 - (82.5 + 5.5) = 5$



GATE LEAF



GT-01: 71 in stiles

GT-02: 26.25 rails

29.25 x 71 leaf

30 x 72 framed opening

3/8 in each side

1/2 in top and bottom

Confirm hardware fit

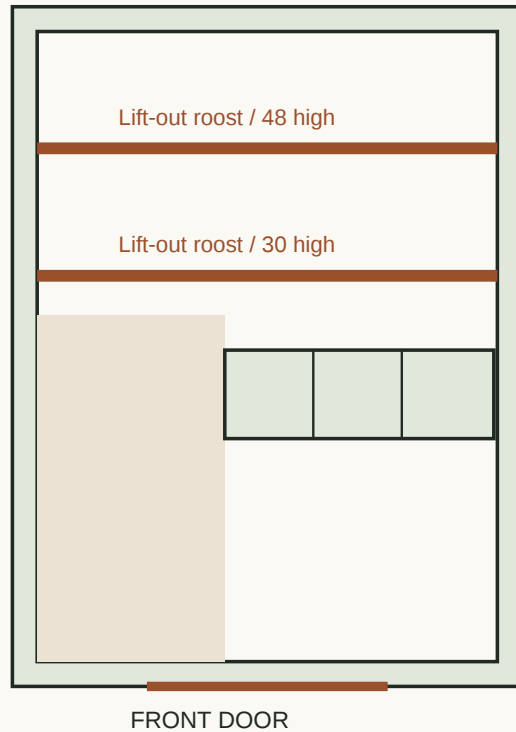
NEST BOX: 38 in outer width - four 1/2 in sides/dividers = three 12 in bays

PN-NB: 4 sides/dividers 12x12; base 38x12.5; back 38x12; lid 38x14; front lip 38x3

Sides stand on base; back closes the rear. Fit removable lid and mounting to actual material thickness.

Dimensions in inches. Confirm actual products, bearing, support and local loads.

B07 / Interior fitting and cleaning route



Outside wall envelope: 72 x 96

Inside wall faces: 65 x 89

Nest: 38 x 12.5 outside

Nest base: 24 above floor

2 roosts: 65 long, 18 apart

Roost tops: 30 / 48 above floor

Front service lane: 26.5 wide

Remove roosts to clean rear floor

Rehearse access with actual tools

These are design choices, not
universal flock-space standards.

Dimensions in inches. Confirm actual products, bearing, support and local loads.

M / Purchase and quote worksheet

One row is one purchase unit. Quantities do not mean a product or support has been approved. Resolve rows marked CONFIRM, and avoid double-counting items included in a supplier package.

Stock allocation uses at least 96 in usable length (120 in for the ridge), 1/8 in kerf between parts, no end-trim allowance and no reuse of defective timber. Verify usable stock before cutting; exact 96 in members need an untrimmed full-length board.

ID / category	Item	Purchase unit / quantity	Basis / confirmation
M01 / Foundation	Coop support assemblies	6 assemblies	CONFIRM: Three supports under each skid; site design controls size, position and anchors
M02 / Foundation	Run support assemblies	6 assemblies	CONFIRM: One independently designed support for each run post
M03 / Lumber	4×6 ground-contact PT	2 8 ft boards	SK-01; verify actual usable stock length
M04 / Lumber	4×4 ground-contact PT	6 8 ft boards	RN-01 / RN-02; field-adjust for actual support-base levels
M05 / Lumber	2×6 No. 2 or better	12 8 ft boards	FL-01 / FL-02 / DR-02 / RN-03; see stock allocation
M06 / Lumber	2×6 No. 2 or better	1 10 ft board	RF-02 ridge; final structural suitability remains local
M07 / Lumber	2×4 No. 2 or better	90 8 ft boards	Computed stock allocation plus three spare boards; selected grade still needs review
M08 / Lumber	2×2 roost stock	2 8 ft boards	IN-01; choose sound stock and ease upper edges
M09 / Trim	1×6 exterior fascia/trim	4 10 ft boards	CONFIRM: Provisional allowance; measure actual fascia and rake runs
M10 / Panels	3/4 in exterior floor plywood	2 4×8 sheets	PN-FL: two 48×72 panels; check strength-axis direction and supported seam
M11 / Panels	1/2 in exterior wall sheathing	16 4×8 sheets	CONFIRM: PN-WL provisional allowance; reconcile actual faces, openings and seam support
M12 / Panels	1/2 in exterior roof sheathing	4 4×8 sheets	PN-RF: main panels and end infill; support infill seams
M13 / Panels	1/2 in exterior nest plywood	1 4×8 sheet	PN-NB and header spacer offcut; see measured panel cuts

ID / category	Item	Purchase unit / quantity	Basis / confirmation
M14 / Envelope	WRB, siding and exterior trim	Confirm quantity	CONFIRM: Measure actual faces; product overlap, opening treatment and waste vary
M15 / Roof	Coop roofing and flashing	Confirm quantity	CONFIRM: Two nominal 45.5×108 in roof planes before product laps/trim; verify templates
M16 / Roof	Run roofing and flashing	Confirm quantity	CONFIRM: Nominal 79×108 in plane before product laps/trim; select for 2:12 pitch
M17 / Mesh	Hardware cloth and edge battens	Confirm quantity	CONFIRM: Measure free walls, vents, apron, gate, overlaps and cuts; do not assume a 200 sq ft roll is complete
M18 / Openings	32×80 exterior/pre-hung door	1 unit	CONFIRM: Verify selected unit against rough opening before framing
M19 / Openings	Run gate hinges	3 hinges	CONFIRM: Baseline count; verify gate load, hardware gaps and fixing method
M20 / Openings	Run gate latch	1 latch	CONFIRM: Select closure for local predator pressure and service access
M21 / Openings	Pop-door hinges	2 hinges	CONFIRM: Coordinate with selected pop-door panel or proprietary unit
M22 / Openings	Pop-door latch/panel	1 assembly	CONFIRM: Size to finished opening and overlap; proprietary unit may replace hinges
M23 / Connectors	Coop rafter uplift ties	14 ties	CONFIRM: C06: one per coop rafter bearing; listed fasteners separately
M24 / Connectors	Run rafter bearing connectors	14 connectors	CONFIRM: C09: seven rafters with two bearings each
M25 / Connectors	Run post caps	6 caps	CONFIRM: C08; match beam and post dimensions
M26 / Connectors	Run post bases	6 bases	CONFIRM: Match site support design; avoid duplication in M02 quote
M27 / Connectors	Floor/skid angles and anchors	Confirm quantity	CONFIRM: C02 and selected foundation design; confirm crossings and fastening schedule
M28 / Fasteners	Framing and connector fasteners	Confirm quantity	CONFIRM: C01–C09 plus panels and corners; named connector fasteners are not interchangeable

ID / category	Item	Purchase unit / quantity	Basis / confirmation
M29 / Envelope	Vent framing, mesh and weather hoods	Confirm quantity	CONFIRM: Locate openings between framing or provide reviewed reframing; preserve airflow
M30 / Fittings	Removable fitting brackets, sealant and finish	Confirm quantity	CONFIRM: Nest and roost backing, edge protection and selected cleaning-compatible surfaces
M31 / Project	Delivery, tax, tools and site services	Confirm quantity	CONFIRM: Enter only costs not already included in another quote

C / Lumber member schedule

Lengths are inches. A blank must be fitted before duplication where its note says so. The stock allocation includes kerf BETWEEN parts; inspect timber and usable stock length first.

Part	Assembly	Stock	Length / qty	Cut or fitting note
SK-01	foundation	4×6 PT	96 / 2	Full-length skids
FL-01	floor	2×6	96 / 2	Side rims
FL-02	floor	2×6	69 / 7	End and interior joists
WL-01	walls	2×4	91.5 / 30	Full studs, kings and corner/backing studs
WL-02	walls	2×4	72 / 6	Front/rear bottom and top plates
WL-03	walls	2×4	89 / 4	Side bottom and first top plates between end walls
WL-04	walls	2×4	96 / 2	Side second top plates; lap corners
DR-01	human door	2×4	81 / 2	Jack studs for 82.5 in rough height
DR-02	human door	2×6	37 / 2	Double header; verify selected door
DR-03	human door	2×4	5 / 3	Header cripples: 93 in underside of first top plate minus 88 in header top
PD-01	pop door	2×4	14.5 / 3	Header/sill blocks fit the 14.5 in space between stud faces; fit side packers for a 12 in opening
RF-01	coop roof	2×4	48 / 14	Rafter blanks; cut one verified 5:12 template first
RF-02	coop roof	2×6	108 / 1	Ridge board
RF-03	coop roof	2×4	69 / 7	Rafter ties
RN-01	run	4×4 PT	96 / 3	High-row post BLANK; field-cut after base standoff, actual bearing levels and tested 2:12 roof template are confirmed

Part	Assembly	Stock	Length / qty	Cut or fitting note
RN-02	run	4×4 PT	96 / 3	Low-row post BLANK; field-cut after base standoff, actual bearing levels and tested 2:12 roof template are confirmed
RN-03	run	2×6	96 / 2	High and low run beams
RN-04	run	2×4	84 / 7	2:12 run-rafter blanks
RN-05	run	2×4	96 / 6	Four purlins and two outer-side mesh rails
RN-06	run	2×4	72 / 4	Rear top/bottom rails; front top rail; one front-bottom blank split around gate. Field-fit without blocking entry.
GT-01	run gate	2×4	71 / 2	Full-height gate stiles; 71 in leaf in a 72 in framed opening
GT-02	run gate	2×4	26.25 / 2	Rails fit BETWEEN two 1.5 in stiles: 29.25 in leaf; confirm hinge/latch gaps
GT-03	run gate	2×4	84 / 1	Diagonal brace blank; trim to fit after squaring
IN-01	interior	2×2	65 / 2	Lift-out roosts between side-wall faces; ease edges and verify flock suitability
IN-02	interior	2×4	12 / 4	Roost support cleats
RN-07	run gate opening	2×4	96 / 2	Gate-jamb blanks: field-fit to selected top support and opening; confirm connectors locally
IN-03	interior	2×4	12 / 4	Nest support-cleat blanks; fit to backing and selected removable mounting method
PD-02	pop door	2×4	12 / 2	Side packers; rip to nominal 1.25 in width to reduce 14.5 in stud bay to 12 in clear; verify actual frame

C / Panel cuts

Transfer measurements after the supporting frame is square. Product panel gaps, strength-axis direction and actual thickness remain part of fitting.

ID	Stock sheets	Pieces	Check
PN-FL	2 × 3/4 in 4×8 floor plywood	2 × 48×72	Cross seam at 48 in; all edges land on framing
PN-RF	4 × 1/2 in 4×8 roof plywood	2 × 45.5×96 plus 2 × 45.5×12	Confirm actual rafter template and fascia line first
PN-NB	1 × 1/2 in 4×8 exterior plywood	4 × 12×12; 1 × 38×12.5 base; 1 × 38×12 back; 1 × 38×14 lid; 1 × 38×3 lip	1/2 in panels; four sides/dividers leave three 12 in bays across 38 in. Fit removable lid; use offcut for door-header spacer.
PN-WL	16 × 1/2 in 4×8 wall sheathing	Field-fit to four framed walls and two gables	Provisional 16-sheet allowance, not an optimized layout. Measure wall/gable faces and supported seams; reconcile before purchase.

D / Connection references

These baseline joint notes must be checked against site loads, timber condition and the selected connector instructions. Use the listed fasteners for each connector; ordinary screws are not automatic substitutes.

ID / joint	Baseline note	Check before covering
C01 / Floor joist to rim	3 × 16d HDG nails each joist end, or listed equivalent	Ends flush; frame diagonal 120 in both ways
C02 / Floor frame to skid	1 listed structural angle at each rim/skid crossing; listed fasteners only	Connector bears fully on both members
C03 / Wall stud to plate	2 × 16d end nails or 3 × 10d toenails at each stud end	Stud ends and plates bear fully. Door and vent openings need their own backing/framing checks.
C04 / Wall to floor	1/4 × 4 in listed structural screw at max 16 in O.C. into rim/joist	Walls plumb and corners fastened together
C05 / Door header	Header plies: 10d nails at 12 in O.C. staggered; 3 × 16d each end into king	34 × 82.5 in rough opening after squaring
C06 / Rafter to wall	1 listed uplift tie at every seat with manufacturer-listed fasteners	14 ties installed; birdsmouths bear evenly
C07 / Rafter to ridge	3 × 10d nails each rafter end or listed equivalent	Seven pairs aligned at marked stations
C08 / Run beam to post	1 listed post cap at each of 6 posts with listed fasteners	Confirm actual bearing levels from a shared reference and tested 2:12 roof template; account for connector/base standoffs before cutting post blanks.
C09 / Run rafter to beam	1 exterior-rated framing angle or hurricane tie at each bearing	Seven rafters maintain 2:12 fall away from coop
C10 / Hardware cloth	Baseline edge detail: fasten cloth to timber, cover exposed edges with battens; confirm fastener length and spacing for the selected mesh and timber.	Inspect every seam, corner, gate edge and ground transition; the mesh opening size alone is not a protection guarantee.

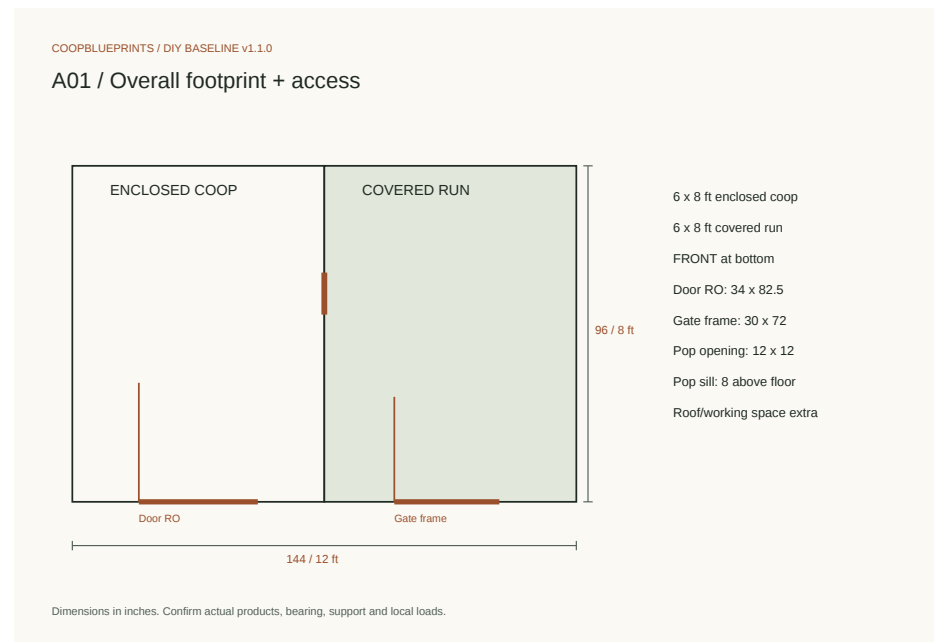
S01 / Approve the site baseline

Drawings: A01, B01, B05 | Parts: site decisions | Connections: selected-product / local details

1. Mark the outside 12×8 ft rectangle, then mark the two front entrances and roof runoff edges.
2. Record ground levels at coop and run support positions; distinguish the finished run grade from the coop floor datum.
3. Resolve support design, local loads, utilities and chosen products before converting the layout into an order.

Check before continuing

Stop until foundation depth/size, utilities, setbacks and load assumptions are locally resolved.



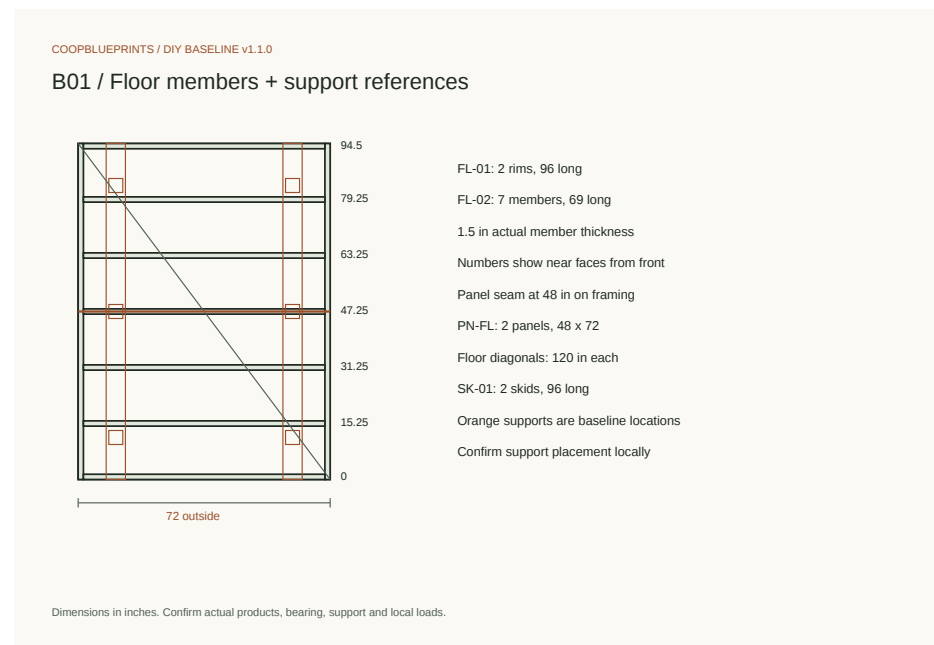
S02 / Set supports and skids

Drawings: B01 | Parts: SK-01 | Connections: C02

1. Transfer the reviewed support locations to the site and check both diagonals of the COOP FLOOR outline, not the spacing of the skids.
2. Set the two skids level and parallel on the locally specified supports. The drawing gives a baseline location; the support reviewer must confirm bearing and anchors.
3. Adjust for actual base levels and install the specified anchors before placing the floor.

Check before continuing

The COOP FLOOR outline measures 72×96 in with two 120 in diagonals; do not apply that diagonal to the inset skids.



S03 / Build and sheath the floor

Drawings: B01 | Parts: FL-01, FL-02 | Connections: C01, C02

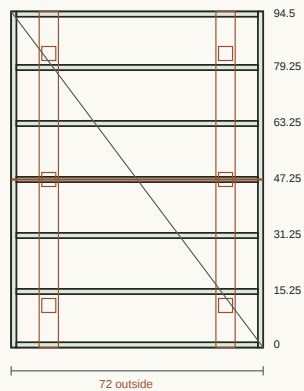
1. Lay out the two 96 in rims and seven 69 in end/interior members. Use the illustrated member faces and centres, not seven identical end offsets.
2. Square the 72×96 outside frame to two 120 in diagonals and connect the floor to the skids.
3. Dry-fit two 48×72 panels with the seam at 48 in. Check strength direction, panel gap and fastening with the panel supplier; support all edges before fastening.

Check before continuing

Every panel edge is supported; floor remains square and flat.

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B01 / Floor members + support references



FL-01: 2 rims, 96 long

FL-02: 7 members, 69 long

1.5 in actual member thickness

Numbers show near faces from front

Panel seam at 48 in on framing

PN-FL: 2 panels, 48 x 72

Floor diagonals: 120 in each

SK-01: 2 skids, 96 long

Orange supports are baseline locations

Confirm support placement locally

Dimensions in inches. Confirm actual products, bearing, support and local loads.

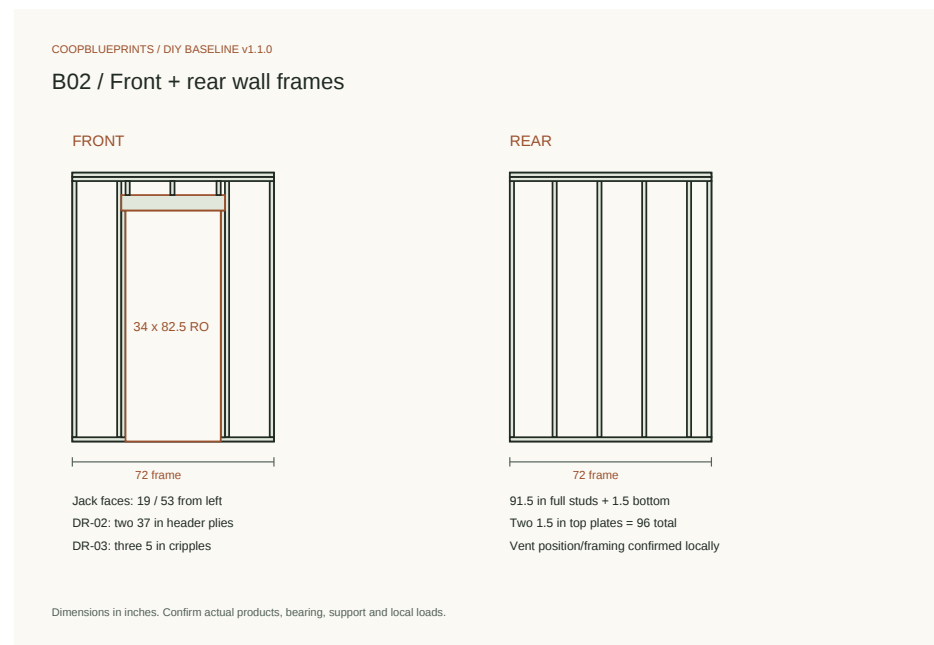
S04 / Frame the four coop walls

Drawings: B02, B03 | Parts: WL-01, WL-02, WL-03, DR-01, DR-02, DR-03, PD-01, PD-02 | Connections: C03, C05

1. Assemble the two 72 in end frames and two 89 in side frames on a flat surface. Label front, rear, left and shared-right.
2. Measure the selected door first. For the baseline opening, place jack faces at 19 and 53 in; use 37 in header plies and a fitted 1/2 in spacer.
3. Keep the 12×12 pop opening between the indicated studs. Choose high-vent positions without cutting structural studs; any wider opening needs a reviewed frame.

Check before continuing

Openings match the selected door and drawing before walls are raised.



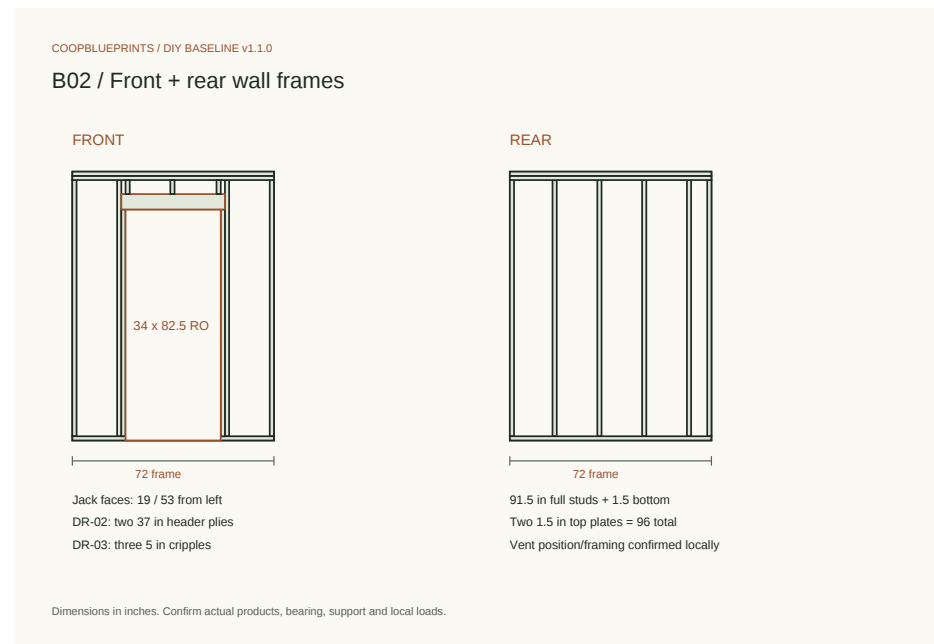
S05 / Raise, plumb and tie walls

Drawings: B02, B03 | Parts: WL-04 | Connections: C03, C04

1. Raise the front and rear end walls with adequate help and temporary bracing.
2. Fit the 89 in side frames between the end walls, check plumb and square, then fasten the corners and bottom plates to their supports.
3. Lap the second top plates as illustrated. Keep temporary bracing until the permanent bracing/sheathing design is complete.

Check before continuing

Both wall diagonals match; all faces are plumb; temporary braces remain.



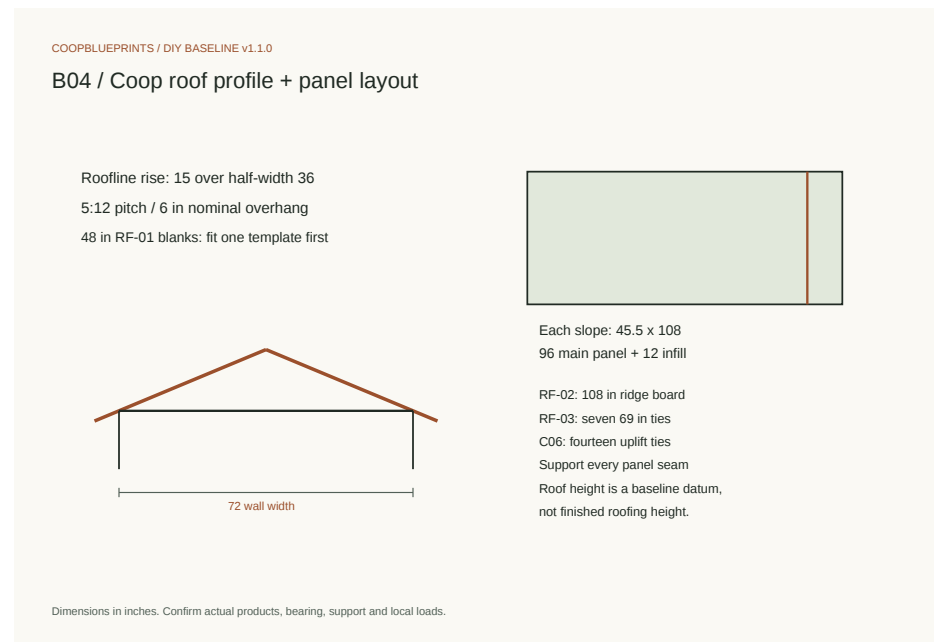
S06 / Frame and dry-in the coop roof

Drawings: B04 | Parts: RF-01, RF-02, RF-03 | Connections: C06, C07

1. Fit one rafter template to the actual 5:12 roof geometry, ridge and bearing seat; 48 in is a blank, not a finished saw setting.
2. After template confirmation, fit all seven pairs, seven ties and fourteen listed bearing connectors with their specified fasteners.
3. Support all roof-panel edges including the 12 in infill seams. Fit sheathing, flashing and roofing to the chosen manufacturer instructions.

Check before continuing

All 14 uplift ties are installed and roof sheathing edges are supported.



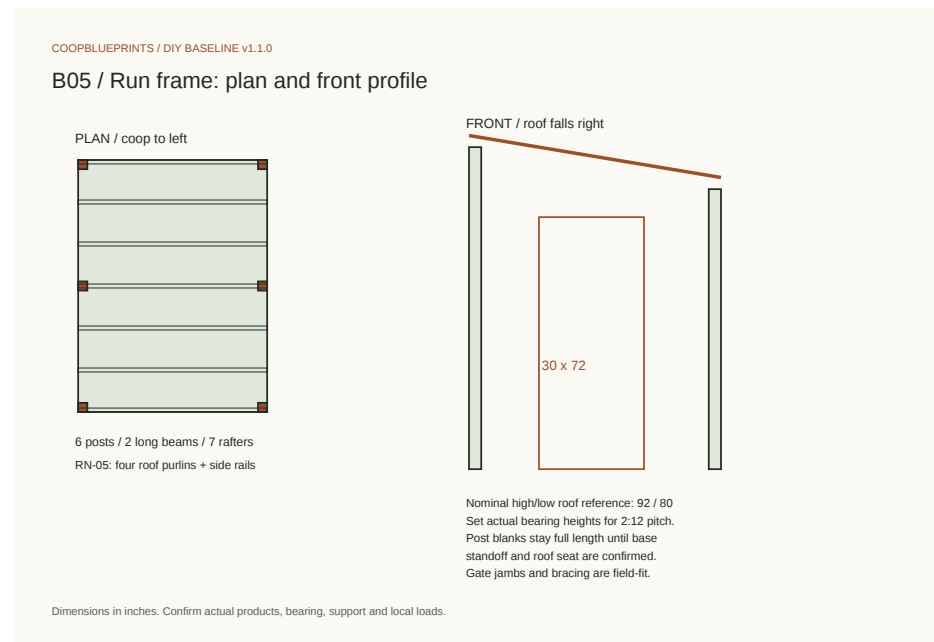
S07 / Frame the self-supporting run

Drawings: B05, B06 | Parts: RN-01, RN-02, RN-03, RN-04, RN-05, RN-06, RN-07 | Connections: C08, C09

1. Set six independent run supports. Transfer the high/low beam datums from one level reference; post cuts must account for actual base standoffs.
2. Install both beams, seven field-fit rafters and their fourteen bearing connections, then purlins and the reviewed bracing.
3. Frame the front gate opening with field-fit jambs. Split the lower front mesh rail around the entrance; the roof is not supported by the coop wall.

Check before continuing

Run stands independently; roof falls away from the coop; 30×72 in gate clearance remains.



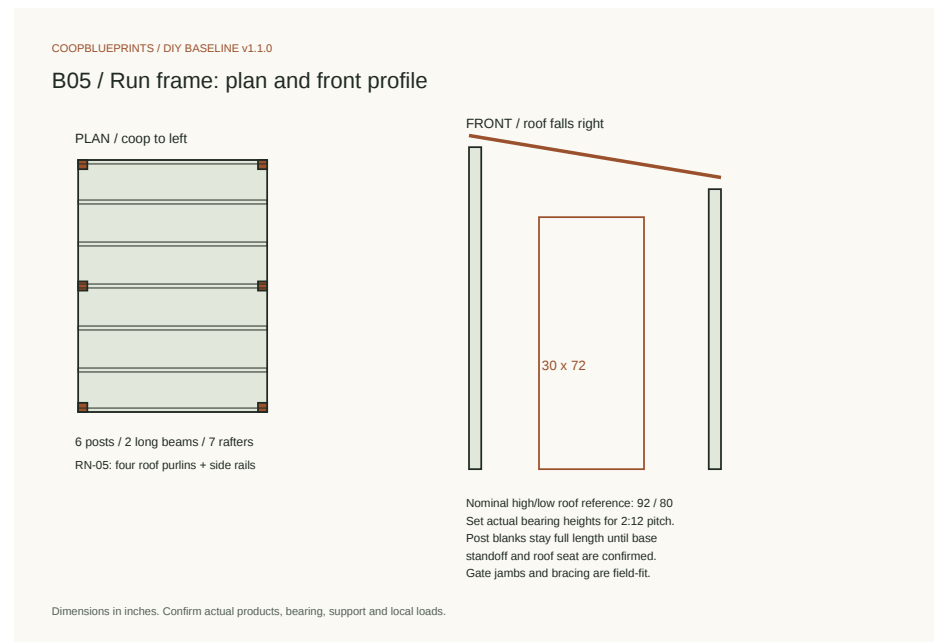
S08 / Close walls, roof and openings

Drawings: B05, B06 | Parts: GT-01, GT-02, GT-03 | Connections: C10

1. Fit the gate rails between the stiles and square the leaf. Test the nominal hardware gaps before fitting the diagonal and hanging the gate.
2. Complete siding, weather layers, flashing and run roofing. Coordinate product edges with protected ventilation.
3. Secure mesh and cover exposed edges; inspect the full ground/door/corner transitions. Measure the actual enclosure before buying rolls or battens.

Check before continuing

No sharp edges or gaps over 1/2 in; water drains away; every latch works from the service side.



S09 / Install interior fittings

Drawings: B07 | Parts: IN-01, IN-02, IN-03 | Connections: selected-product / local details

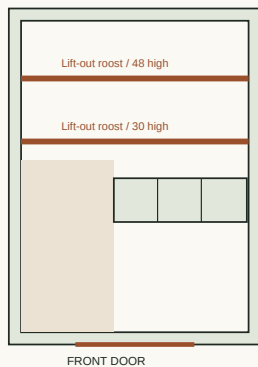
1. Dry-fit the three-bay nest module: 38 in outside width with four 1/2 in sides/dividers leaves three 12 in bays.
2. Rehearse the front service lane with your real container before mounting the nest and lift-out roost supports.
3. Fit two 65 in roosts between the wall faces; confirm their suitability for the flock. Lift them out to reach the rear floor during cleaning.

Check before continuing

The front service lane and door are usable with your tools; rear-floor cleaning requires removing the roosts.

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B07 / Interior fitting and cleaning route



Outside wall envelope: 72 x 96
Inside wall faces: 65 x 89
Nest: 38 x 12.5 outside
Nest base: 24 above floor
2 roosts: 65 long, 18 apart
Roost tops: 30 / 48 above floor
Front service lane: 26.5 wide
Remove roosts to clean rear floor
Rehearse access with actual tools
These are design choices, not
universal flock-space standards.

Dimensions in inches. Confirm actual products, bearing, support and local loads.

S10 / Commission before birds enter

Drawings: Q01 | Parts: site decisions | Connections: selected-product / local details

1. Walk both service routes with the equipment you will use. Check all doors from the service side and remove sharp edges and debris.
2. Check exterior runoff without soaking interior wood or bedding. Observe ventilation and weather exposure under actual conditions.
3. Record site decisions, products, unfinished items and changes against this version. Resolve open construction issues before use.

Check before continuing

Record the final local decisions and close every issue on the final checklist.

Date / initials: _____ Unfinished items: _____

Q01 / Final checks and revision record

Check actual work, record unresolved items and keep the current version with the project. A tick is your observation; it does not replace the review named in that item.

- ☐ Supports and anchors match the recorded site decision.
- ☐ Floor, wall and run connections match the reviewed details.
- ☐ Roof and wall products are installed to their instructions.
- ☐ Mesh, ground transitions, openings and latches have been inspected.
- ☐ No sharp mesh, protruding fasteners or debris remain.
- ☐ Both service routes work with the real equipment.
- ☐ Roosts can be removed and the rear floor can be cleaned.
- ☐ Ventilation remains open and rain/runoff problems are addressed.

Builder/date: _____ Local review reference: _____

Products and field changes: _____

What changed in v1.1.0

- Corrected human-door jack positions and header-cripple length.
- Gate leaf now includes explicit hardware gaps within its framed opening.
- Nest panel widths now account for four half-inch side/divider panels.
- 65 in lift-out roosts fit between side-wall faces. The former full-depth 36 in aisle claim is withdrawn; a front service lane is shown and must be rehearsed.
- Added run supports, roost stock, gate-jamb blanks and run-rafter connectors; unmeasured envelope and fastener quotes remain open.
- All stage instructions, diagrams and downloadable tables now use this revision.
- Run posts remain full-length blanks until actual base/bearing levels are confirmed; pop-opening blocking now fits the measured stud bay.

Keep the earlier file only as a historical record. Reconcile these changes before continuing a project begun from v1.0. Share the version, drawing/part/stage ID and measured problem at coopblueprints.com/corrections.