

Chicken Coop Plans — Dimensions & Cut Lists

Four coops for 4 to 12 standard hens. Notes and sources at flockmath.com/guide/chicken-coop-plans/

COOP FLOOR 4 sq ft / bird	RUN 10 sq ft / bird	ROOF 3:12 shed
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Standard hens with a run. Heavy breeds need about 25 percent more floor, bantams about half, a cold climate 25 percent more, and confined birds roughly two and a half times.

THE FOUR BUILDS

Build	Hens	Floor	Front wall	Back wall	2×4 sticks	4×8 sheets
4×4	4	16 sq ft	5 ft 6 in	4 ft 6 in	21	5
4×6	6	24 sq ft	5 ft 6 in	4 ft 6 in	28	7
4×8	8	32 sq ft	5 ft 6 in	4 ft 6 in	32	7
6×8	12	48 sq ft	5 ft 6 in	4 ft	39	10

Stick counts include 10 percent waste. All four use a 3:12 shed roof running off the lower back wall.

CUT LIST — 2×4 AT 16 IN ON CENTRE

Member	4×4 — 4 hens	4×6 — 6 hens	4×8 — 8 hens	6×8 — 12 hens
Floor rim joist	2 @ 4 ft	2 @ 6 ft	2 @ 8 ft	2 @ 8 ft
Floor joist	4 @ 3 ft 9 in	6 @ 3 ft 9 in	7 @ 3 ft 9 in	7 @ 5 ft 9 in
Front and back plates	4 @ 4 ft	4 @ 6 ft	4 @ 8 ft	4 @ 8 ft
Front stud	4 @ 5 ft 3 in	6 @ 5 ft 3 in	7 @ 5 ft 3 in	7 @ 5 ft 3 in
Back stud	4 @ 4 ft 3 in	6 @ 4 ft 3 in	7 @ 4 ft 3 in	7 @ 3 ft 9 in
Side plate	4 @ 3 ft 5 in	4 @ 3 ft 5 in	4 @ 3 ft 5 in	4 @ 5 ft 5 in
Side stud	8 @ 4 ft 9 in	8 @ 4 ft 9 in	8 @ 4 ft 9 in	12 @ 4 ft 6 in
Rafter	4 @ 5 ft 2 in	6 @ 5 ft 2 in	7 @ 5 ft 2 in	7 @ 7 ft 3 in

Studs are net of a bottom and a single top plate; side walls sit between front and back. Rafters are the sloped length including a 6 in overhang each end.

WHAT GOES INSIDE, AND THE RUN

Hens	Nest boxes	Roost length	Ventilation	Run	Run size	Hardware cloth
4	2	3 ft 4 in	576 sq in	40 sq ft	8 × 6 ft	112 sq ft
6	2	5 ft	864 sq in	60 sq ft	10 × 6 ft	128 sq ft
8	2	6 ft 8 in	1,152 sq in	80 sq ft	10 × 8 ft	144 sq ft
12	3	10 ft	1,728 sq in	120 sq ft	12 × 10 ft	176 sq ft

Cloth covers the run walls at 4 ft; covering the top adds the run area again. Roost above the nest boxes, ventilation above the roost.

What this sheet is, and is not

These are **dimensions and material quantities**, not engineered structural drawings — no span tables, load calculations, footing design or fixing schedule, and those are the parts that decide whether a structure lasts. Have the framing checked before you sheathe it, and check local codes.

Use half-inch hardware cloth, not chicken wire. Chicken wire keeps chickens in; it keeps nothing out.