Your timber shopping & cut list

Garage tote rack | 1520 x 1530 x 720 mm (W x H x D) | 2 columns x 3 tiers

YOUR FIXED SIZE / W x H x D

1520 x 1530 x 720

Millimetres / inspect the actual space first

STOCK BOARDS TO BUY

14

2400 mm stock / 38x89 mm actual section

SAW-CUT PIECES

32

3 mm kerf / 15.1% calculated offcut

Label these timber members before assembly. Panels and cladding are specified separately.

ID	Timber member	Section	Qty	Finished cut length	Use / planning note
V-01	Front & rear ladder posts	38x89mm	6	**1530 mm** approx. 60.236 in	Equal post-to-post bays; actual timber section, not nominal lumber size.
R-01	Front-to-back tote slide rails	38x89mm	12	**606 mm** approx. 23.858 in	Fit between rear brace/stretcher layers and front stretcher; test an actual tote lid before cutting the full set.
B-01	Front & rear cross-tie stretchers	38x89mm	6	**1520 mm** approx. 59.843 in	Three levels on each face: base, middle and top.
G-01	Rear face-fixed diagonal brace blanks	38x89mm	4	**650 mm** approx. 25.591 in	Four square-ended blanks at 45 degrees; use G-02 backing blocks at their post ends. Confirm joint fixings and anchoring separately.
G-02	Rear brace packing blocks	38x89mm	4	**89 mm** approx. 3.504 in	One block behind each diagonal brace at its post end; fills the stretcher-thickness offset.

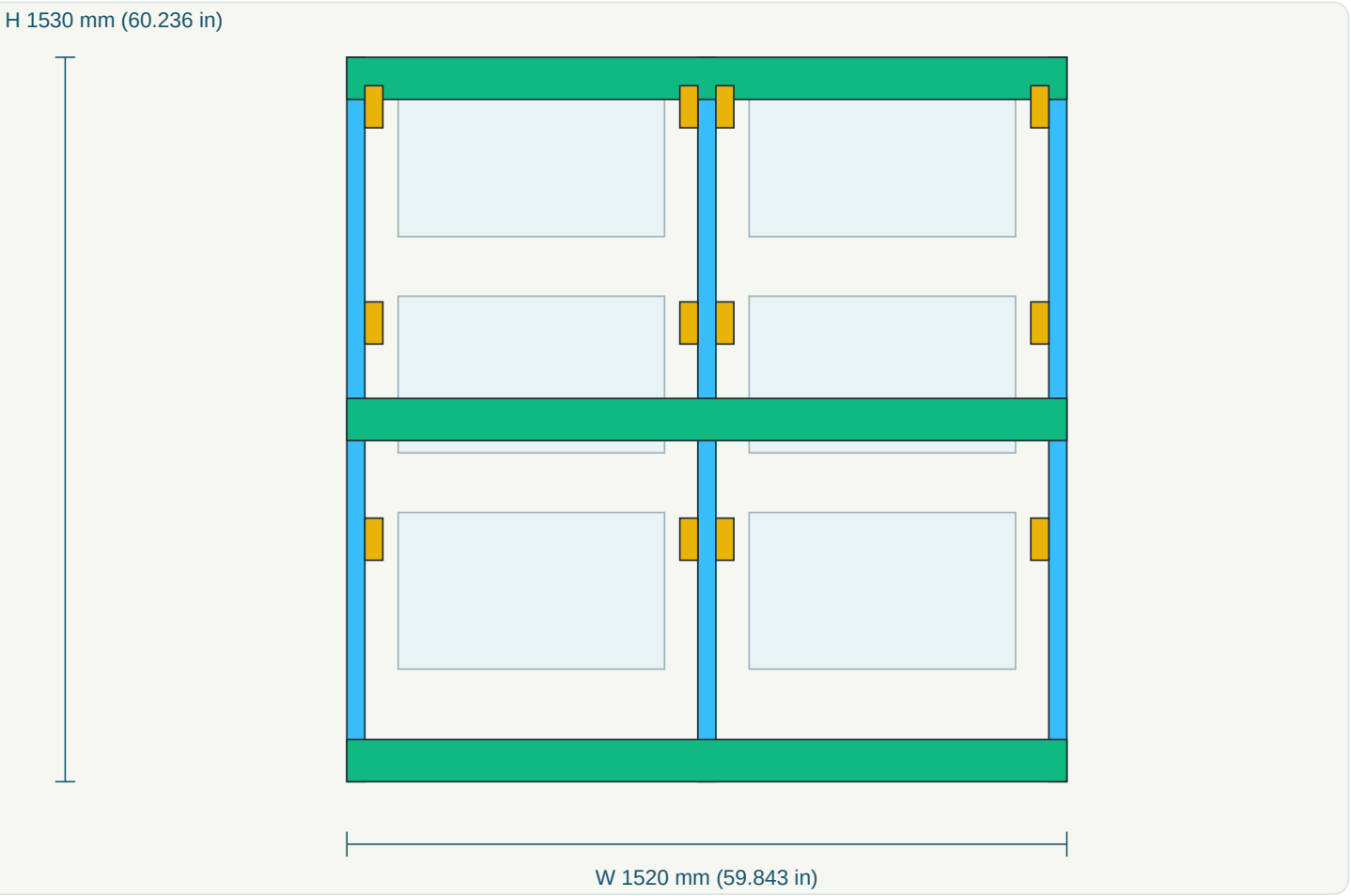
Derived lengths rounded to 0.1 mm; inch references approximate. Check actual stock and fit before cutting.

See the frame before you build

Garage tote rack | 1520 x 1530 x 720 mm (W x H x D) | 2 columns x 3 tiers

FRONT ELEVATION

1:15 at 100% on A4



PART KEY

V-01	1530 mm
R-01	606 mm
B-01	1520 mm
G-01	650 mm
G-02	89 mm

DEPTH ENVELOPE

720 mm (28.346 in)

Envelope only; not a joint section.

Coloured rectangles are the projected frame. Pale shapes show context, not additional cut parts.

1000 mm print-scale check

Use A-01 IDs and C-02 lengths with the assembly sequence on D-03. Check actual product dimensions, fixing positions and manufacturer clearances before cutting.

Cut every board with a clear map

Garage tote rack | 1520 x 1530 x 720 mm (W x H x D) | 2 columns x 3 tiers

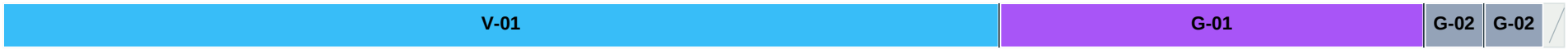
Stock 2400 mm (94.488 in). Cuts rounded to 0.1 mm; inch references approximate. Gaps allow 3 mm kerf between segments; end trimming is separate.

BOARD 01



V-01: 1530 mm (60.236 in) + G-01: 650 mm (25.591 in) + G-02: 89 mm (3.504 in) + G-02: 89 mm (3.504 in) | Offcut: 33 mm (1.299 in)

BOARD 02



V-01: 1530 mm (60.236 in) + G-01: 650 mm (25.591 in) + G-02: 89 mm (3.504 in) + G-02: 89 mm (3.504 in) | Offcut: 33 mm (1.299 in)

BOARD 03



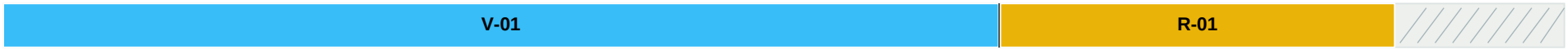
V-01: 1530 mm (60.236 in) + G-01: 650 mm (25.591 in) | Offcut: 217 mm (8.543 in)

BOARD 04



V-01: 1530 mm (60.236 in) + G-01: 650 mm (25.591 in) | Offcut: 217 mm (8.543 in)

BOARD 05



V-01: 1530 mm (60.236 in) + R-01: 606 mm (23.858 in) | Offcut: 261 mm (10.276 in)

BOARD 06



V-01: 1530 mm (60.236 in) + R-01: 606 mm (23.858 in) | Offcut: 261 mm (10.276 in)

BOARD 07



B-01: 1520 mm (59.843 in) + R-01: 606 mm (23.858 in) | Offcut: 271 mm (10.669 in)

Build in a sensible sequence

Garage tote rack | 1520 x 1530 x 720 mm (W x H x D) | 2 columns x 3 tiers

STEP 01

Cut every member from Sheet C-02 board by board, then write its part ID on each piece in pencil so nothing gets mixed up.

STEP 02

Set out the 3 ladder frames with equal post-to-post bay widths of 703 mm. The selected 720 mm overall depth includes the rear brace, rear stretcher and front stretcher layers. The R-01 rail length is 606 mm; do not cut the rails to the overall depth.

STEP 03

Fit paired R-01 rails in every bay at the top heights 556.7 mm, 1013.3 mm, 1470 mm above the base. Their pitch is 456.7 mm, with minimum 367.7 mm clear height between rail faces. The gap between the left and right rail faces is 627 mm. Confirm the actual tote body and lid can pass and bear on the rails.

STEP 04

Test-slide one real tote onto the first pair of rails before building the rest; the lid lip must rest on the rails with a few mm of side play.

STEP 05

Join the ladder frames with all six B-01 stretchers: base, middle and top on BOTH front and rear faces. Keep the rails between the rear and front stretchers and check the overall width and depth against Sheet A-02.

STEP 06

Square the frame, then face-fix the four G-01 rear brace blanks at 45 degrees, one at each rear corner. Each blank is 650 mm long. At each brace's post end fit one G-02 packing block to fill the stretcher-thickness offset; the other end meets the rear base/top stretcher. Confirm all connections and intended loads before use.

STEP 07

Anchor the top stretcher to the wall studs with angle brackets - a loaded tote rack must never be free-standing.

STEP 08

Recheck one actual tote in each bay/tier before filling the 6 illustrated positions. The scaled totes in the preview do not establish brand, lid or load compatibility.