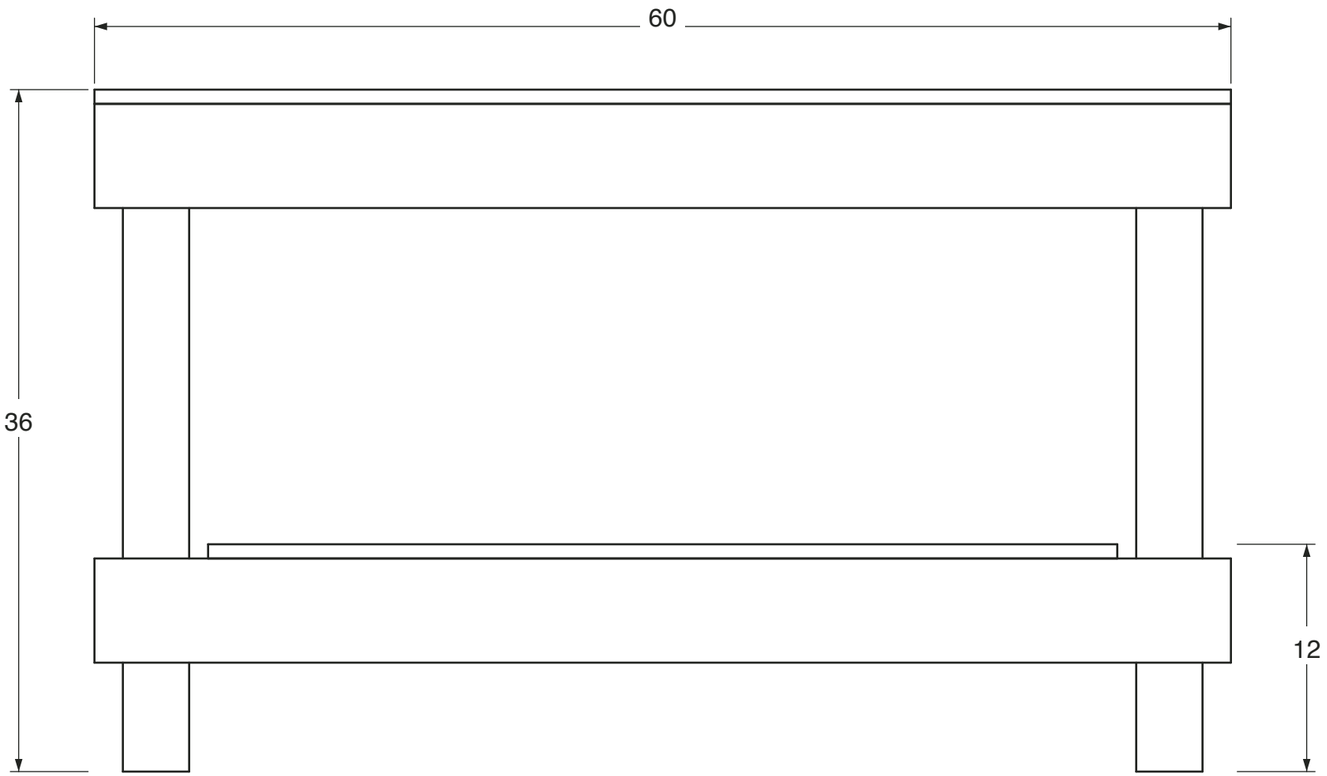
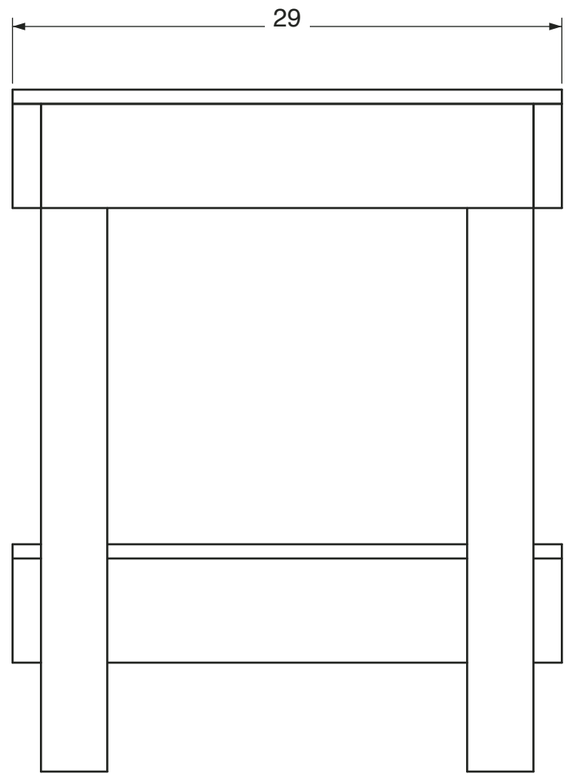
Overall dimensions

Confirmed height: 36 in on bare legs. Rockler casters and fasteners are omitted from these views.



01 Front elevation / 1:8

Floor datum: bottom of the legs. Shelf height is to the top of the plywood. The builder confirmed the 36 in overall height with no foot pads.



02 Right elevation / 1:8

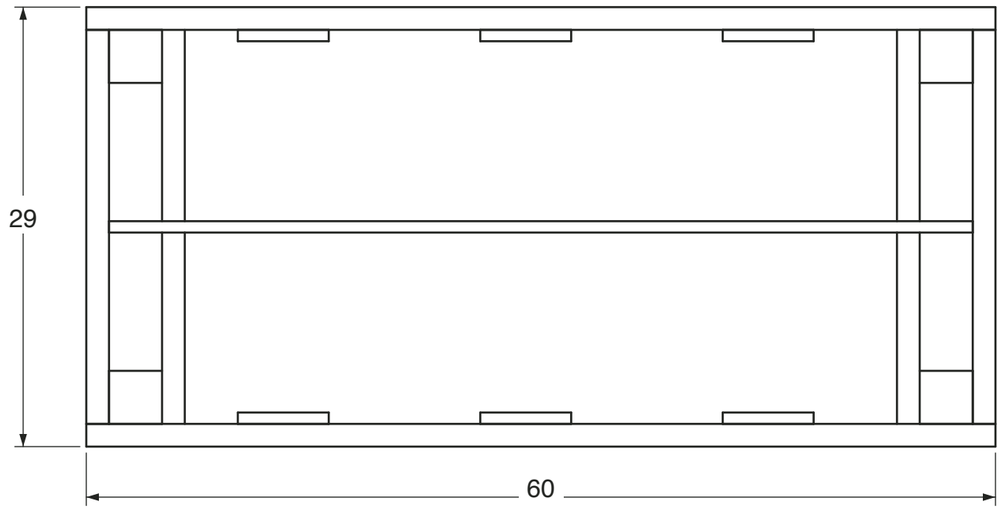
Third-angle view arrangement. Top and frame: 60 x 29 in, flush on all sides.

Single nominal 3/4 in top. Leg length = working height minus measured top thickness. Credits and drawing method: G12.

STUDIO WORKBENCH / JUSTICE ENGINEERING Overall dimensions Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D01	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 01 OF 07

Frame plans

Views from above. Top and shelf removed. Upper and lower end rails occupy different positions.



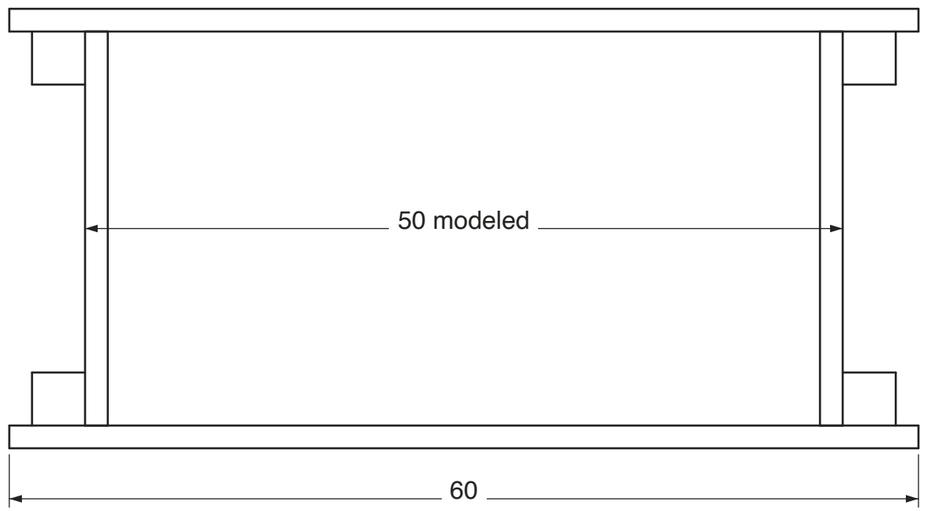
01 Upper frame / 1:10

G: two 26 in end rails fit between the 60 in E rails. The top is flush with the 60 x 29 in frame.

C: center the upright plywood rib across the depth. Its top edge and the six J cleats align with the upper rail tops.

The end-view photograph on G13 confirms this arrangement.

02 Lower frame / 1:10



Lower frame

H: two 26 in end rails fit between F rails, against the inward faces of the end legs.

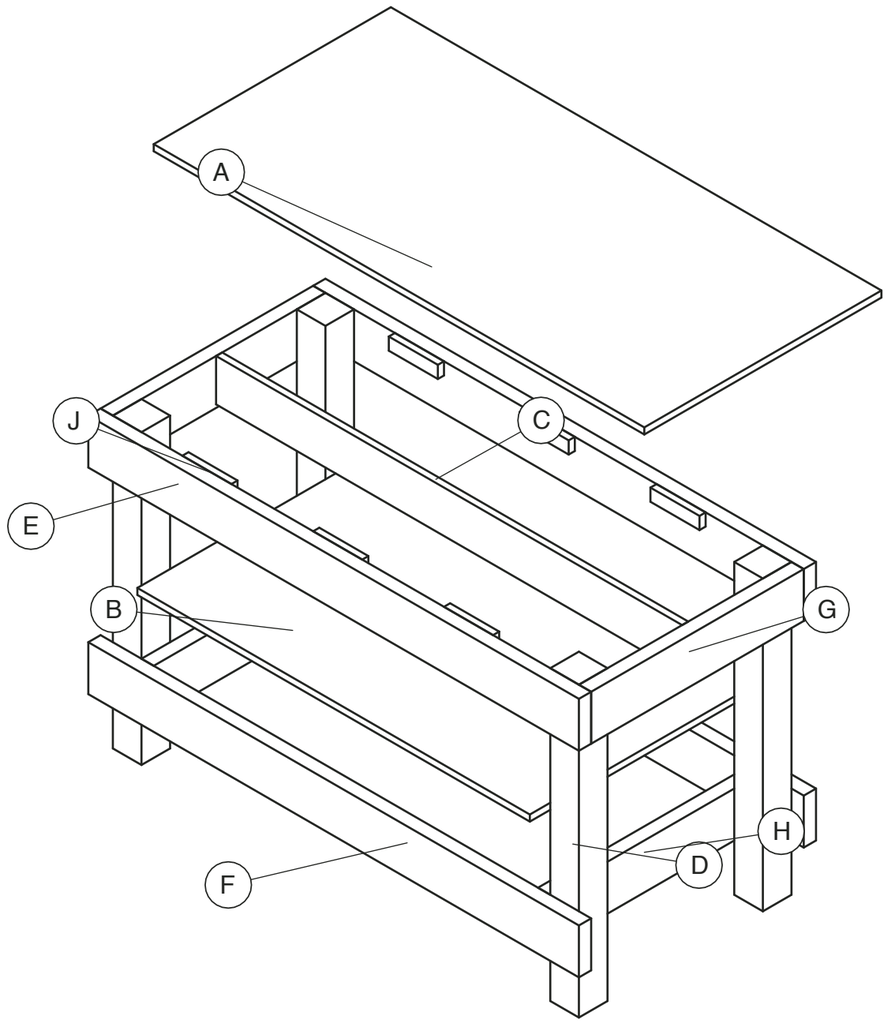
B: measured shelf 48 x 29 in, with end gaps. Shown centered in the modeled 50 in opening: 1 in each side. Exact gap widths and the 1 1/2 in leg inset remain unmeasured.

Lower rail tops: 11 1/4 in for a true 3/4 in shelf. Finished shelf surface: 12 in above the floor.

STUDIO WORKBENCH / JUSTICE ENGINEERING Frame plans Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D02	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 02 OF 07

Exploded panel assembly

The panels are lifted away to show the frame. The separation distances are illustrative.



01 Assembly / not to scale

Component key

ID	Part / quantity
A	Top / 1
B	Shelf / 1
C	Center rib / 1
D	Legs / 4
E	Upper long rails / 2
F	Lower long rails / 2
G	Upper end rails / 2
H	Lower end rails / 2
J	Top cleats / 6

21 wood parts. Use G06 for cut lengths and D02 for frame positions.

STUDIO WORKBENCH / JUSTICE ENGINEERING Exploded panel assembly Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D03	REVISION A.6 / DRAFT	DATE 03 NOV 2026
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Rail joints / connection review

GRK RSS 5/16 x 4 in product confirmed. The earlier hole pattern has been withdrawn.

NO DRILLING LAYOUT ISSUED

Confirm the joint design before marking or drilling the rails and legs.

Why the previous pattern was removed

The old long-rail diagram put the first screw 1 in below the upper rail top. With the rail flush to the leg top, that is also 1 in from the leg end. It does not meet the minimum end distances in the reviewed RSS report.

A drawing of an earlier proposal is not a construction detail. The old hole coordinates are no longer included in this set.

What the final detail must resolve

Check end and edge distances in both members, spacing along and across the grain, wood species, pilot holes, and screw paths entering adjacent faces.

The nominal 32-screw allowance assumes two screws at each of 16 rail-to-leg joints. It is a quantity estimate, not a verified joint specification.

The upper rails meet the leg tops; the lower end rails meet the inward leg faces. The final drawing must show those actual relationships.

Reference reviewed

GRK / ICC-ES ESR-2442, revised February 2026: Tables 1 and 5, Section 4.4. Product evaluation does not establish a load rating for this bench.

GRK RSS product documentation

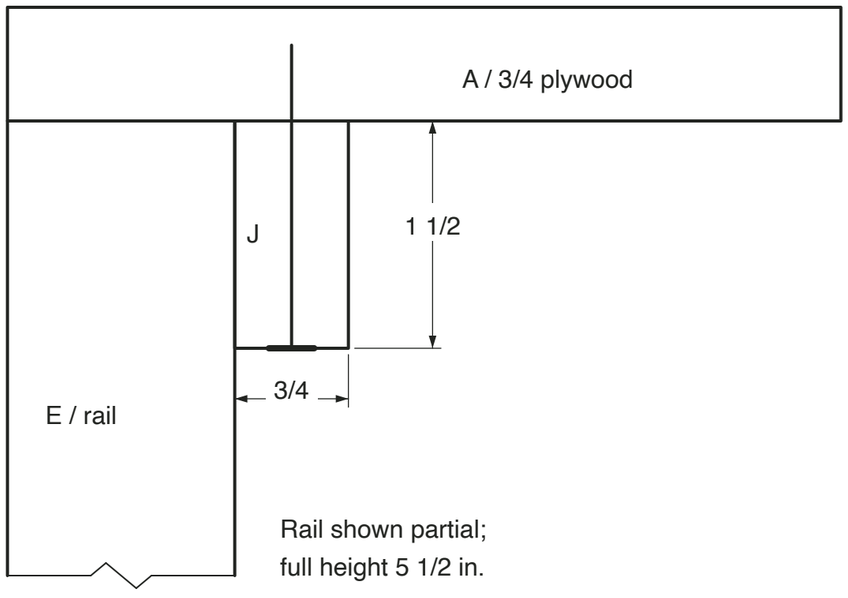
No bench load rating has been established. As-built screw positions and counts remain unverified.

STUDIO WORKBENCH / JUSTICE ENGINEERING Rail joints / connection review Print at 100%. Written dimensions govern. — 1 in check	DRAWING SW-6029 / D04	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 04 OF 07

Top attachment / plywood cleats

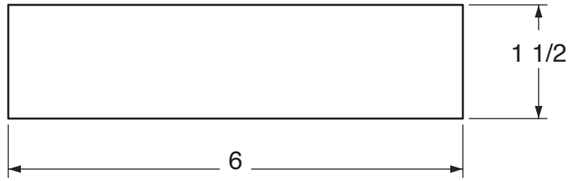
Measured cleat: 6 x 1 1/2 x 3/4 in. GRK #8 x 2 in cabinet screws in both directions.

01 Cleat section / 1:1



Rail shown partial;
full height 5 1/2 in.

02 Cleat inside face / 1:2



Plywood face shown. The cleat projects 3/4 in inward from the rail. Top edge is flush beneath the worktop.

S3 horizontally into rail

2 in cabinet screw through 3/4 in plywood into the 1 1/2 in rail. Nominal penetration into rail: 1 1/4 in; remaining wood beyond tip: 1/4 in.

These are geometric reach checks, not strength ratings. Seat heads on the surface. Check actual stock and tip reach before assembly.

S5 upward into top: 2 in screw through 1 1/2 in cleat height. Nominal reach into top: 1/2 in. Remaining plywood above tip: 1/4 in.

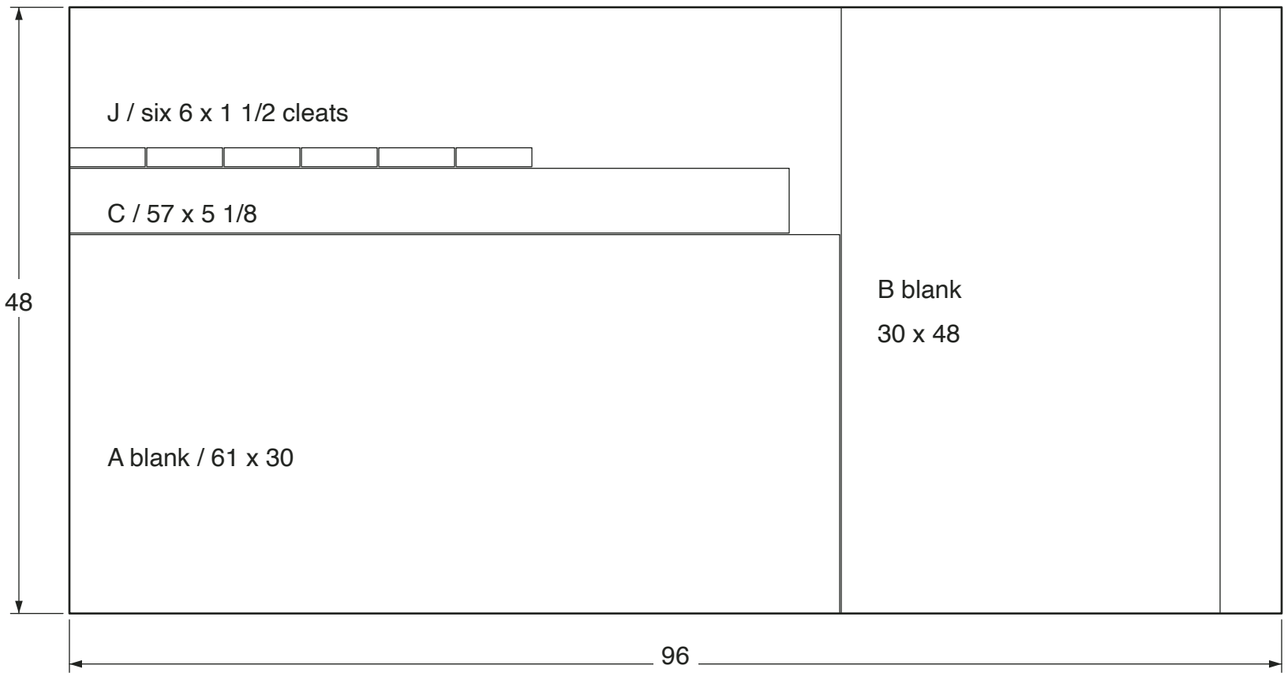
Hole positions are pending. Offset the horizontal and vertical screws so their paths do not meet. Do not use the old 8 in cleat offsets.

STUDIO WORKBENCH / JUSTICE ENGINEERING Top attachment / plywood cleats Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D05	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 05 OF 07

Sheet and lumber cutting

One-sheet option: rotate the shelf. Verify a full 48 in usable sheet width before cutting. Layouts are not to scale.

01 One 48 x 96 in sheet / NTS



Cut sequence / 1/8 in kerfs

Crosscut at 61 in. Rip a 30 in top blank from that section; use its long offcut for the rib and cleats.

The remainder is 34 7/8 x 48 in. Cut a 30 x 48 shelf blank, then trim 30 to 29. Preserve the full factory width for the 48 in shelf length.

Top and rib grain run lengthwise. Shelf grain runs front to back. If the full 48 in width is not usable, buy a separate oversized panel; do not silently shorten the shelf.

02 2x6 / four boards

60	26	

Finished plywood: A 60 x 29; B 48 x 29; C 57 x 5 1/8; J six 6 x 1 1/2. All 3/4 in thick.

03 4x4 / two posts

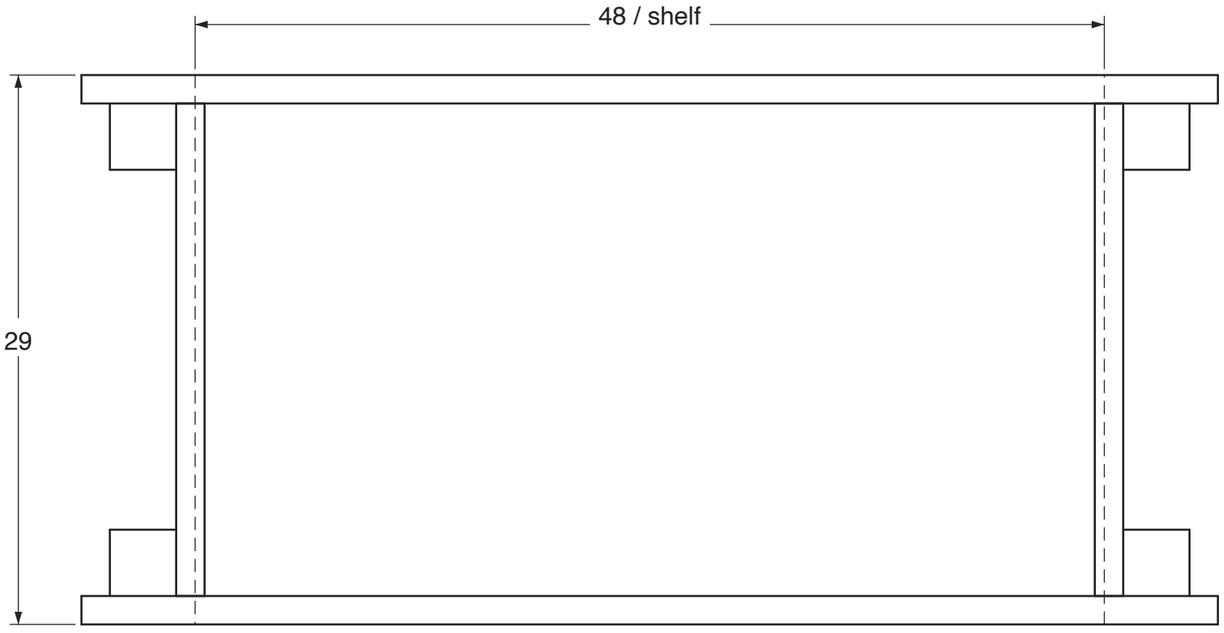
35 1/4	35 1/4	

Use full 96 in stock; allow for kerfs and damaged ends. No 2x2 stock is needed.

STUDIO WORKBENCH / JUSTICE ENGINEERING Sheet and lumber cutting Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D06	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 06 OF 07

Shelf fit / rib notes

Measured shelf: 48 x 29 in. End gaps confirmed; exact gap widths and support locations are not measured.



01 Lower frame and shelf / 1:8

Dashed outline: shelf, shown centered. The lower frame retains the previous modeled leg inset. This gives 1 in gaps beside the legs and 1/2 in bearing on each end rail; neither has been measured on the build. The small overlap does not establish a usable end-screw layout.

Shelf fastening / review

The earlier screw coordinates have been removed. They were based on a 49 7/8 in shelf and must not be reused for this panel.

The proposed allowance remains 16 GRK R4 #9 x 2 1/2 in screws. Confirm rail bearing, panel edge distances and installed counts before publishing a drilling layout.

The shelf surface is 12 in above the floor. With true 3/4 in plywood, rail tops are 11 1/4 in above the floor.

Rib C / measured size

57 x 5 1/8 x 3/4 in plywood. Keep its top flush with the upper rails. Proposed connection: two GRK R4 #10 x 3 1/8 in screws per end. Hole locations and pilot holes remain under review.

STUDIO WORKBENCH / JUSTICE ENGINEERING Shelf fit / rib notes Print at 100%. Written dimensions govern. 1 in check	DRAWING SW-6029 / D07	REVISION A.6 / DRAFT	DATE 03 NOV 2026
	UNITS INCHES	SCALE AS NOTED	SHEET 07 OF 07