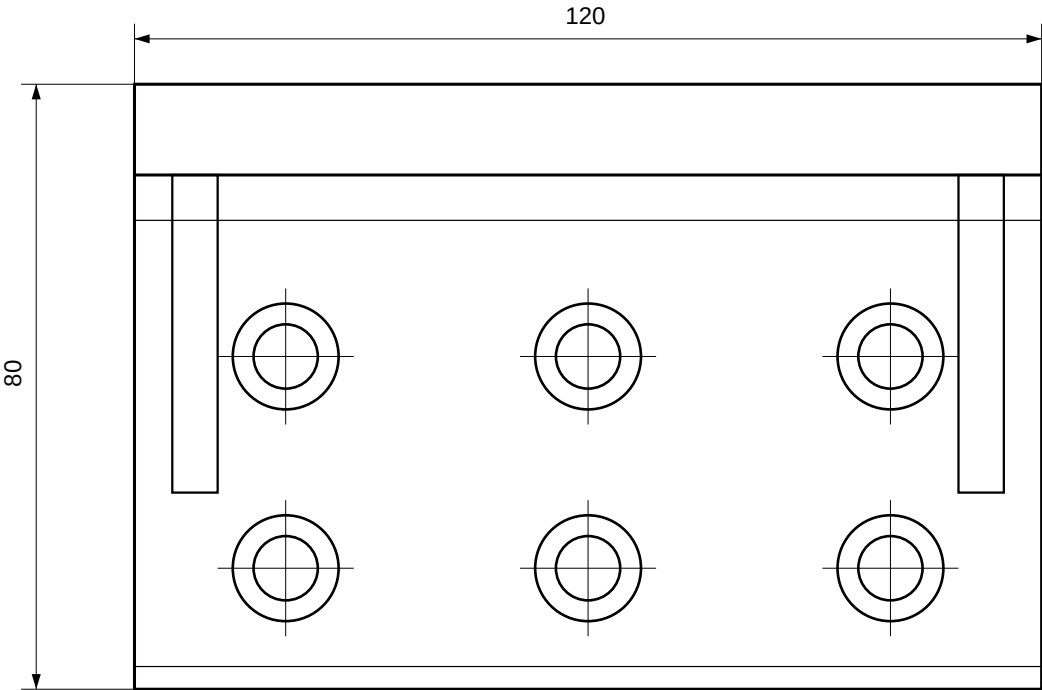
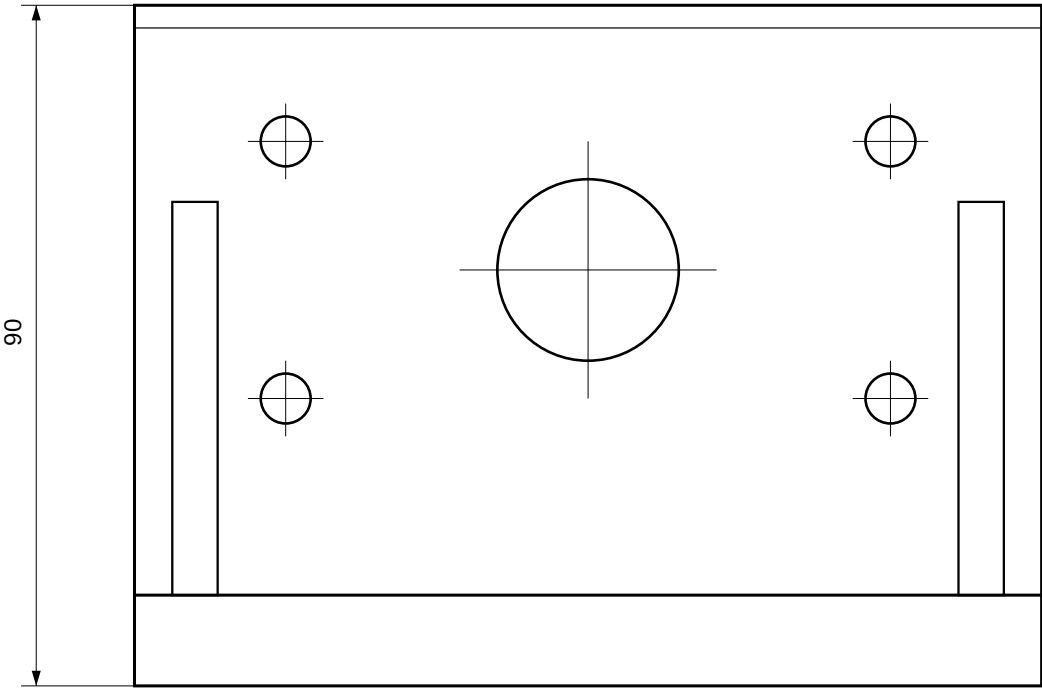


PARACRUX / GUSSETED MOUNTING BRACKET

Orthographic views / dimensions and feature schedule on sheet 2 / nominal demo geometry



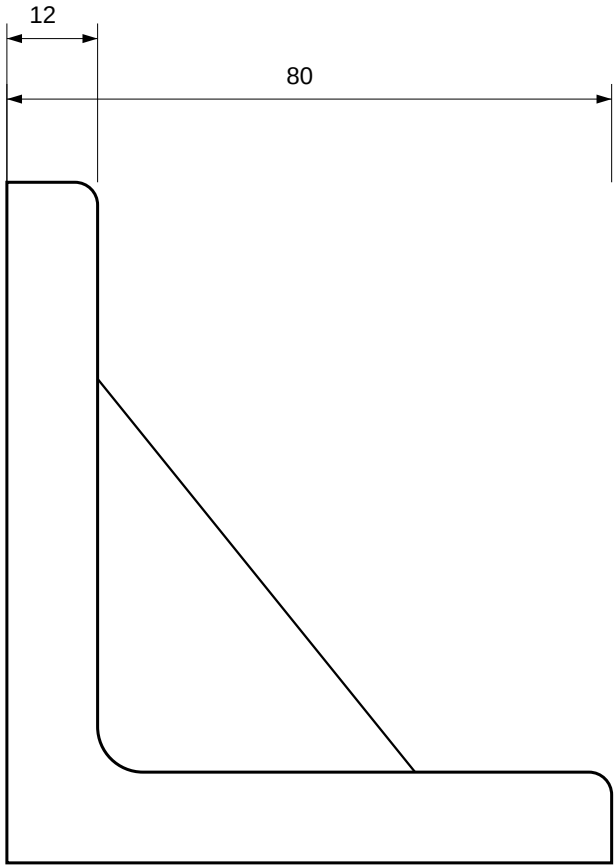
TOP / viewed from +Y



FRONT / viewed from +X

BUILD BRIEF

- Create one editable solid from this drawing.
- Model the base and upright as an integral L-profile.
- Include genuine gusset and hole feature patterns.
- Add the specified counterbores and fillets.
- Save as bracket-rev-a.sldprt and export STEP.
- Read both sheets before modelling.



SIDE / viewed from +Z

PROFILE DETAIL

- Internal root R6.
- Top and front free edges R3.
- All radii run across width.
- Gussets: 6 thick,
- 42 run x 52 rise.
- See G1 on sheet 2.

PARACRUX / GUSSETED MOUNTING BRACKET

Authoritative feature definitions / coordinate system matches model and inspection evidence

COORDINATE SYSTEM

Origin: rear edge / underside / width centre. X = forward depth, Y = up, Z = width. All lengths in mm.

ID	FEATURE	DEFINITION
B1	L-profile	XY vertices: (0,0), (80,0), (80,12), (12,12), (12,90), (0,90).
B2	Width	Extrude B1 symmetrically about Z0 to total width 120 (Z = -60 to +60).
F1	Internal root	R6 on the concave full-width edge at X12, Y12. Apply before gussets and cuts.
F2	Free-edge rounds	R3 on two full-width edges: X80/Y12 and X12/Y90. Other edges remain sharp.
G1	Gusset seed	Triangle in XY: (12,12), (54,12), (12,64). Thickness 6, centred at Z52.
G2	Gusset pattern	2 instances total; pitch 104 in -Z. Final gusset centre planes: Z = -52,+52.
H1	Base seed	Axis parallel Y. Centre X36/Z-40. Diameter 8.5 THRU base.
H2	Counterbore	Coaxial with H1: diameter 14, depth 6 from Y12 towards Y0.
P1	Base pattern	Pattern H1 and H2 together: 3 in +Z at pitch 40; 2 in +X at pitch 28.
P1	Final base centres	All combinations of X = 36,64 and Z = -40,0,40. Six counterbored holes.
H3	Upright seed	Axis parallel X. Centre Y38/Z-40. Diameter 6.6 THRU upright.
P2	Upright pattern	2 in +Z at pitch 80; 2 in +Y at pitch 34. Centres Y = 38,72; Z = -40,+40.
H4	Clearance bore	Axis parallel X; centre Y55/Z0. Diameter 24 THRU upright.

TOOL ACCESS AND MODEL REQUIREMENTS

One connected solid. Base holes and counterbores are accessible from +Y; upright holes and bore from +X.

Keep counterbores on the base top face. No reverse-side recesses, re-entrant slots or hidden undercuts.

Base counterbore floor thickness = 6. Smallest counterbore-to-gusset side gap = 2 (tool envelope not certified).

Use explicit parameters for bracket width and bore diameter. Mounting axes and pattern pitches are protected.

No manufacturing tolerances, fit, load rating or CAM collision certification assigned. Do not scale screenshots.