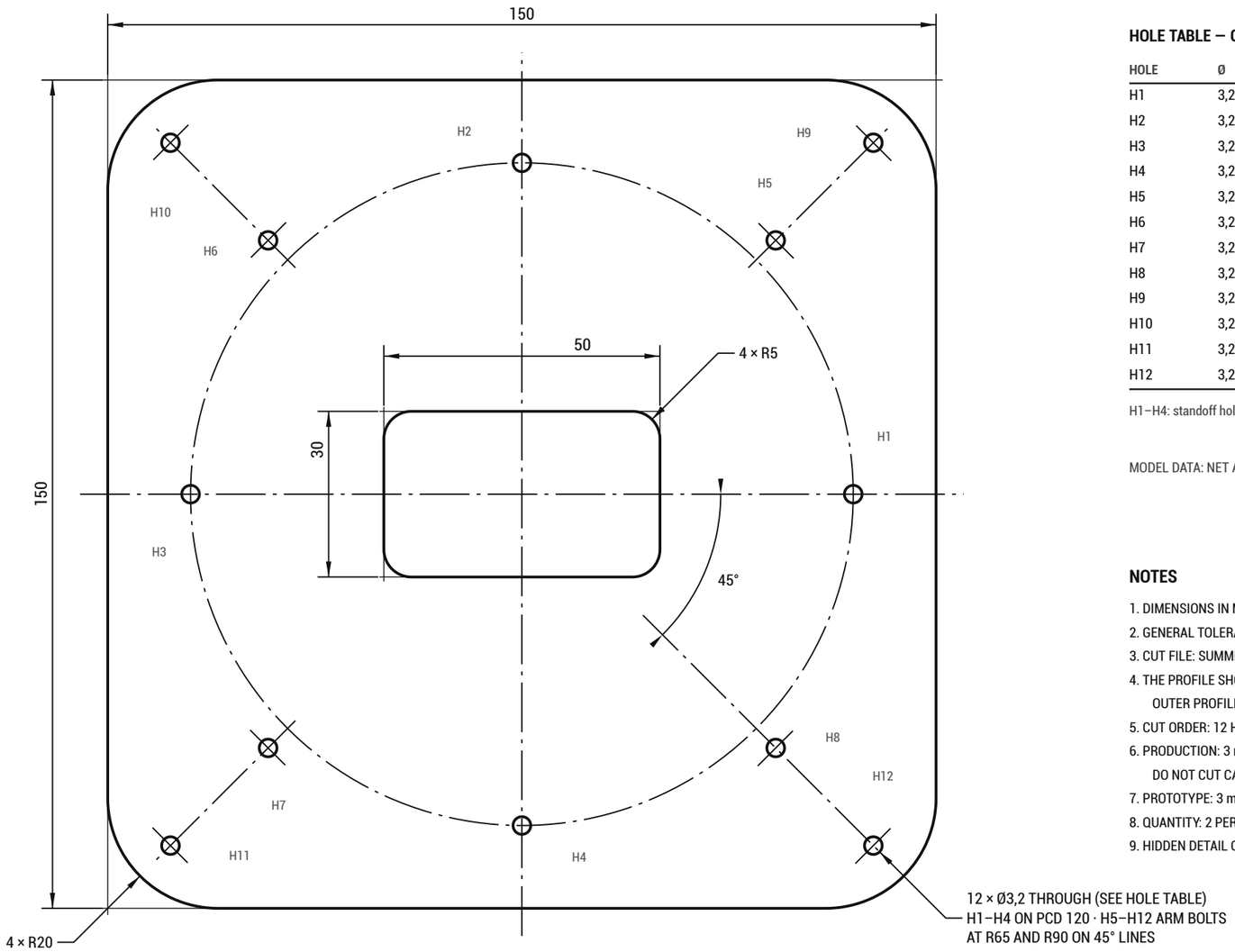
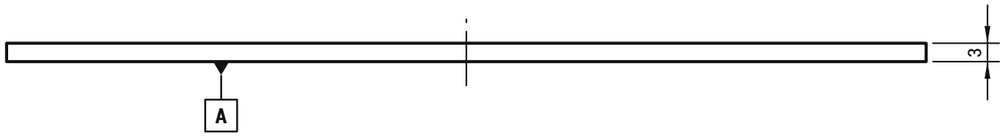


PLAN (PROFILE TO BE CUT)



FRONT ELEVATION

HOLE TABLE — ORIGIN X0 Y0 AT THE PLATE CENTRE

HOLE	Ø	X	Y	R FROM CENTRE
H1	3,2	60,00	0,00	60
H2	3,2	0,00	60,00	60
H3	3,2	−60,00	0,00	60
H4	3,2	0,00	−60,00	60
H5	3,2	45,96	45,96	65
H6	3,2	−45,96	45,96	65
H7	3,2	−45,96	−45,96	65
H8	3,2	45,96	−45,96	65
H9	3,2	63,64	63,64	90
H10	3,2	−63,64	63,64	90
H11	3,2	−63,64	−63,64	90
H12	3,2	63,64	−63,64	90

H1–H4: standoff holes. H5–H12: arm-bolt holes (2 per arm).

MODEL DATA: NET AREA 20 581,6 mm² · VOLUME 61 745 mm³ (3 mm THICK)

NOTES

1. DIMENSIONS IN MILLIMETRES (DXF $INSUNITS = 4). DECIMAL MARKER IS A COMMA.
2. GENERAL TOLERANCE ±0,1 UNLESS OTHERWISE STATED.
3. CUT FILE: SUMMIT_Lower_Plate_3mm.dxf — 14 ENTITIES, CUT AT 1:1.
4. THE PROFILE SHOWN IS THE FINISHED EDGE. COMPENSATE FOR KERF.
   OUTER PROFILE OFFSET OUTWARDS k/2, HOLES AND SLOT INWARDS k/2.
5. CUT ORDER: 12 HOLES, THEN THE CABLE SLOT, OUTER PROFILE LAST.
6. PRODUCTION: 3 mm CARBON COMPOSITE, SPECIALIST CNC CUTTING.
   DO NOT CUT CARBON COMPOSITE ON A SCHOOL LASER (HAZARDOUS FUMES).
7. PROTOTYPE: 3 mm ACRYLIC, LASER CUT FROM THE SAME DXF.
8. QUANTITY: 2 PER DRONE — UPPER AND LOWER FRAME PLATES ARE IDENTICAL.
9. HIDDEN DETAIL OMITTED. DEBURR ALL EDGES.

designclass
design | engineering | technology

PROJECTION			
SCALE: 1:1	SIZE · UNITS: A3 · mm		
DRAWN BY (CREATOR): R.M.	LEGAL OWNER: SUMMIT-X design team	DOCUMENT TYPE: DETAIL DRAWING	DRAWING No.: SX-02-001
CHECKED BY: A.G.	TITLE: FRAME PLATE		REVISION: A
APPROVED BY: J.S.	MATERIAL: 3 mm CARBON COMPOSITE		MASS: 85,8 g (model)
DATE OF ISSUE: 2026-10-28	GENERAL TOLERANCE: ±0,1 UNLESS OTHERWISE STATED		SHEET: 1 OF 1

© DesignClass 2026 · designclass.co.uk · SUMMIT-X and the Highland Search & Rescue Drone Unit are fictional