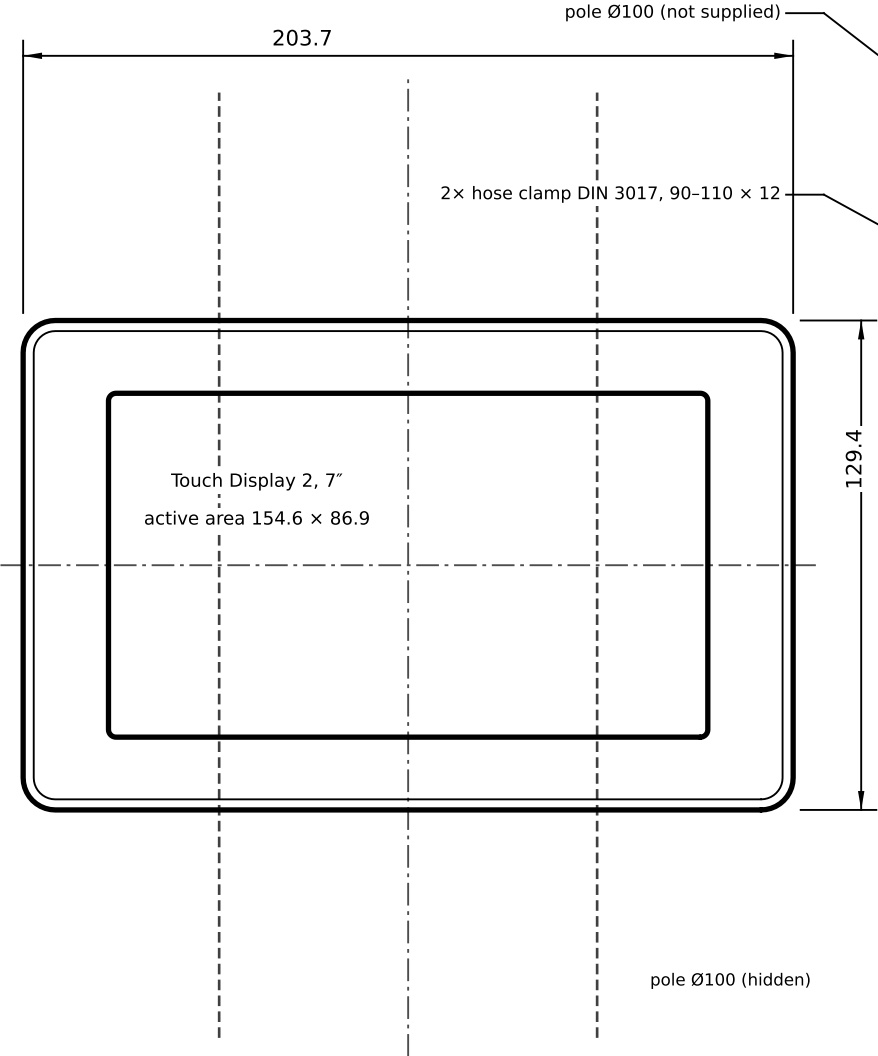
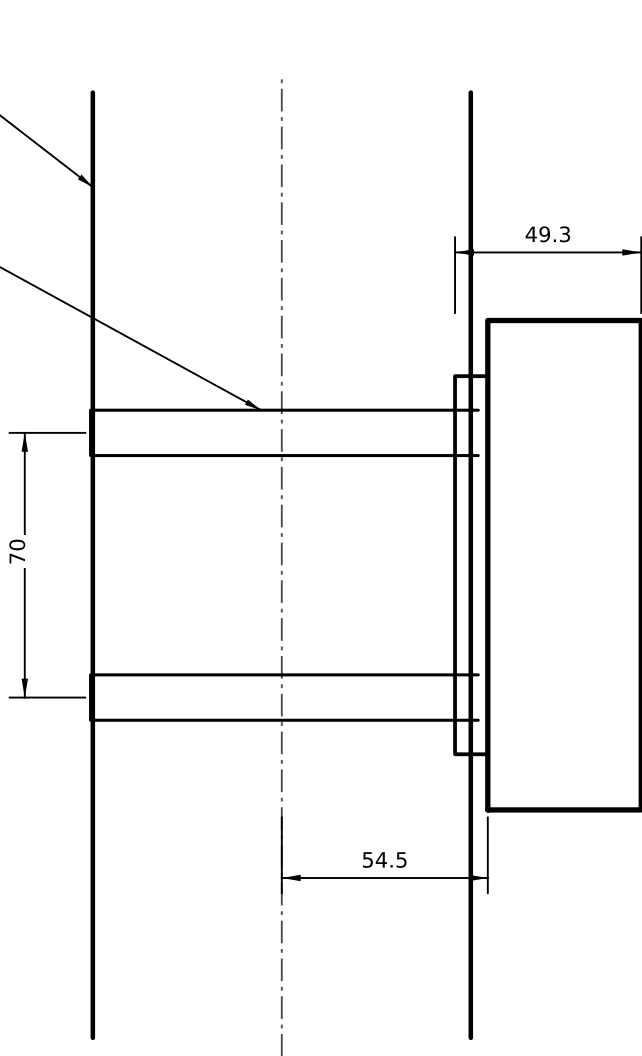


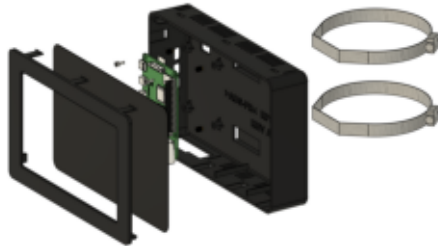
FRONT VIEW (display side), 1:2



SIDE VIEW FROM LEFT, 1:2



| Pos | Part no.              | Description                         | Qty    |
|-----|-----------------------|-------------------------------------|--------|
| 1   | RPS-100-01            | Front bezel, ABS FR PA-765          | 1      |
| 2   | RPS-100-02            | Rear shell, ABS FR PA-765           | 1      |
| 3   | RPI4-MODB             | Raspberry Pi 4 Model B              | 1      |
| 4   | SC1635                | RPi Touch Display 2, 7"             | 1      |
| 5   | RX-M2.5x5.7           | Heat-set insert M2.5, ruthex        | 4      |
| 6   | ISO 4762 M2.5x6 A2-70 | Socket head cap screw               | 4      |
| 7   | HHC-90-12-20-A2       | Hose clamp DIN 3017 90-110 x 12, W4 | 2      |
| 8   | VHB 5925              | 3M VHB tape 0.64 mm, 4 strips 8 mm  | 1 set  |
| 9   | -                     | microSD 32 GB, 15 W USB-C PSU       | 1 each |



NOTES

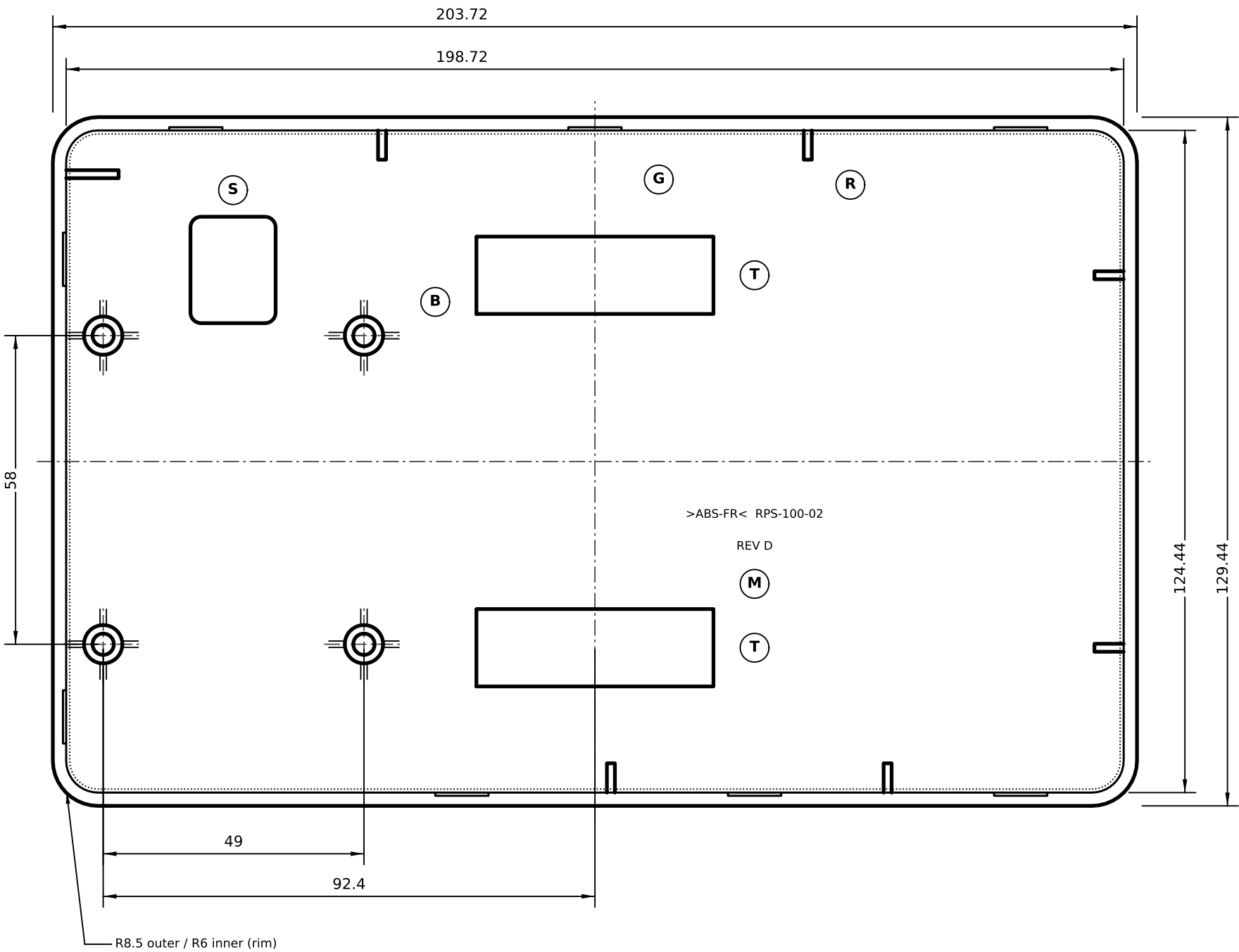
- 1. Fix the Pi with 4x ISO 4762 M2.5x6 into the heat-set inserts, 0.3 N·m.
- 2. Bezel snaps into the shell with 8 hooks; release them through the side windows.
- 3. Mount with 2 hose clamps through the band tunnels, 2-3 N·m.
- 4. Assembly guide and BOM with sources are supplied separately.

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| ROOM BOOKING SIGN - ASSEMBLY     |                                                     |                                   |
|----------------------------------|-----------------------------------------------------|-----------------------------------|
| Part number<br><b>RPS-100-00</b> | Material<br>see parts list                          | Mass<br>approx. 0.5 kg (estimate) |
| Scale<br>1:2                     | Units / views<br>mm / view direction labelled       | Revision / Date<br>D / 2026-10-07 |
| Author<br>Opus 5.5               | General tolerance<br>ISO 20457 TG6 / Protolabs std. | Sheet<br>1 / 5                    |

VIEW A - FROM RIM SIDE (+Z), INSIDE, 1:1

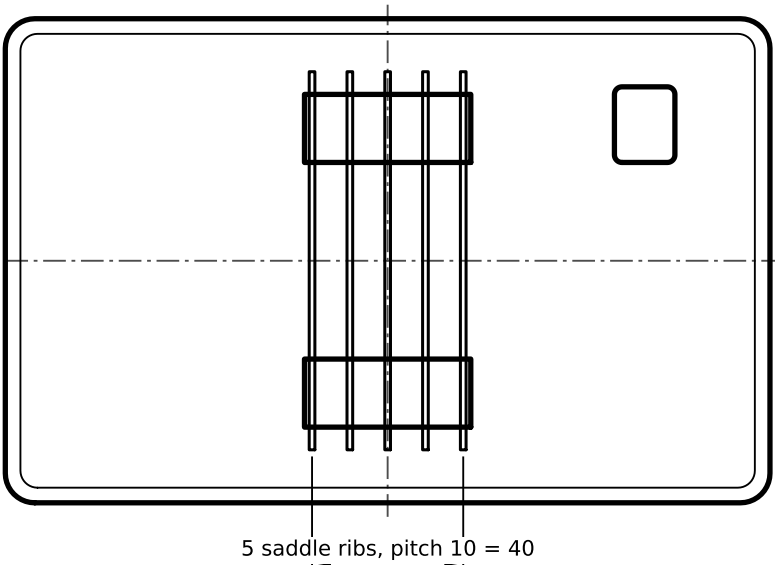


NOTES

1. Material ABS FR, Protolabs Polylic PA-765 black (UL94 5VA).
2. Nominal wall 2.5 mm (Protolabs ABS range 1.14–3.56 mm).
3. Draft, main pull: walls, gussets, rib ends, lead-in grooves, microSD window, saddle-rib ends, band bridges 1°; text 0.5–1°; bosses, insert holes 0.5°; glass-rib flanks 0.57°; band pass-throughs 3° (shut-off). Side actions: every wall opening 1° in the slide direction (widens outward).
4. Ribs  $\leq 60\%$  of wall (1.5 mm root); boss wall 1.6 mm (64 %).
5. Radii: back edge R1.5 inside / R4 outside; corners R6 / R8.5.
6. Side actions: top, bottom and left wall (sheet 3); back side straight pull incl. 2 pass-through cores.
7. Finish outside PM-F1 / SPI-B2 (texture would need 3° draft).
8. Gate: back centre under the saddle (hidden by the pole).
9. Datums: A = back face z = 0, B = X = 0, C = Y = 0 (display centre).
10. 3D CAD model (STEP) is master for undimensioned geometry.

| Tag | Feature                      | Size                           | Location                          |
|-----|------------------------------|--------------------------------|-----------------------------------|
| B   | 4× boss, heat-set insert     | OD 7.2 / Ø4.0 × 6.2, top z 9.0 | X −92.4/−43.4, Y 23.66/−34.34     |
| S   | microSD service window       | 16 × 20, R2, through back      | centre X −68, Y 36                |
| T   | 2× band tunnel, pass-through | 44 × 14 (+3°), roof 2.0        | X 0, Y +35 / −35                  |
| R   | 7× glass-support rib         | t 1.5 → 0.8, top z 37.26       | top ±40, bot 3/55, R ±35, L 54    |
| G   | 8× snap lead-in groove       | 10 × 0.87, z 25.26 → rim       | T −75/0/80, B −25/30/80, L 38/−48 |
| W   | 8× snap window (side act.)   | 9 × 3.46, z 21.8–25.26         | as G                              |
| V   | vents: 26 top, 15 bottom     | 2.2 × 14, z 6–20, pitch 5      | see sheet 3                       |
| M   | moulded marking              | h 7, recessed 0.3              | floor, X 25, Y −10                |

VIEW B - FROM BACK (−Z), 1:2



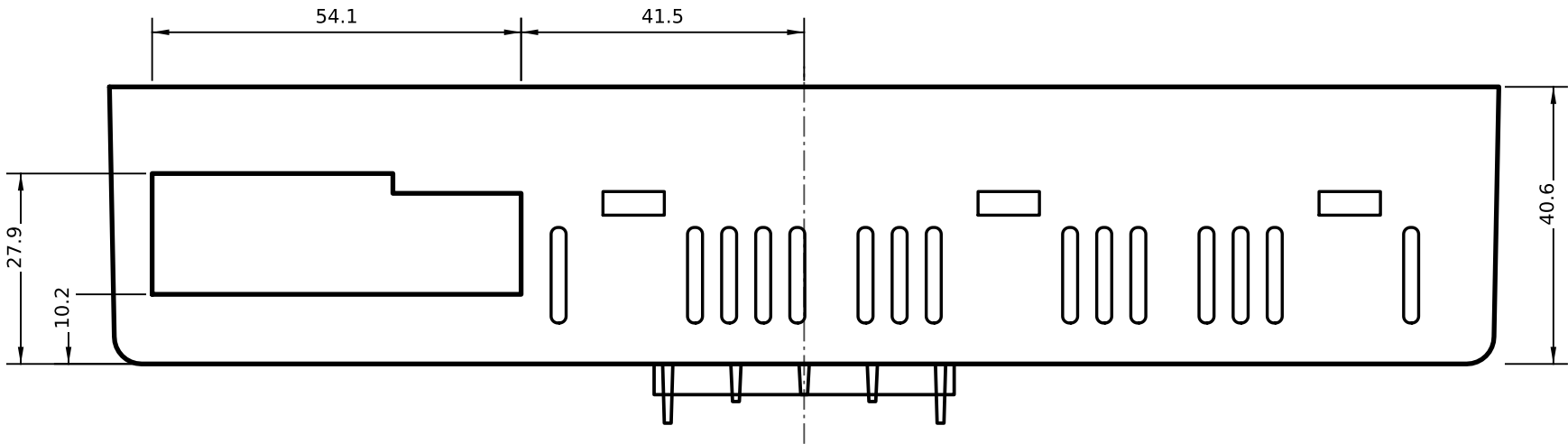
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REAR SHELL (housing bottom part)

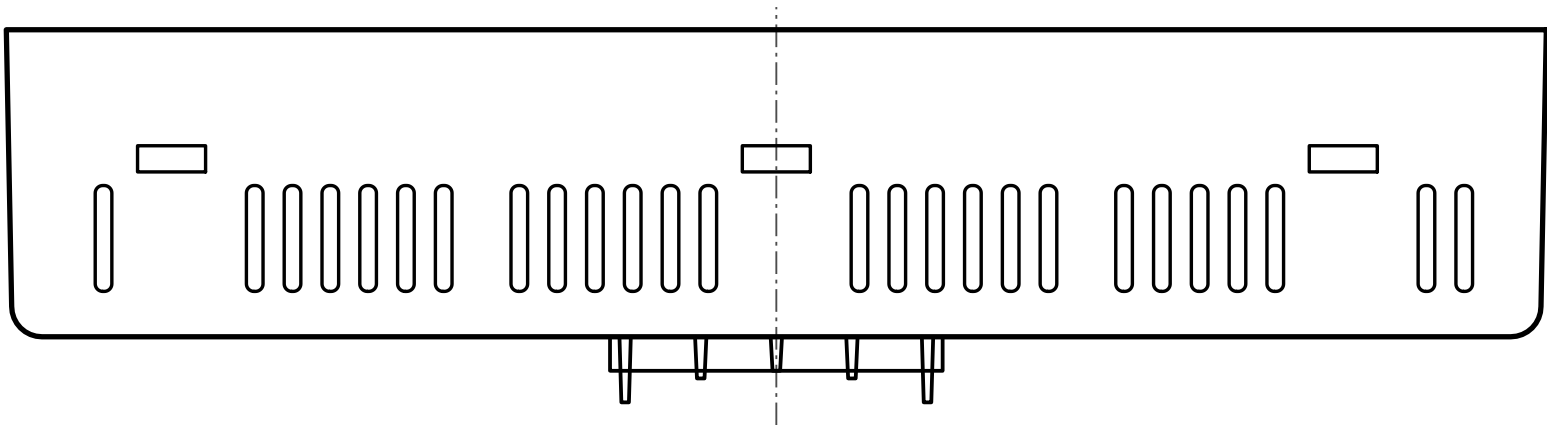
|                                  |                                                       |                                               |
|----------------------------------|-------------------------------------------------------|-----------------------------------------------|
| Part number<br><b>RPS-100-02</b> | Material<br>ABS FR - Polylic PA-765, black (UL94 5VA) | Mass<br>128.7 g (ABS 1.06 g/cm <sup>3</sup> ) |
| Scale<br>1:1 (view B 1:2)        | Units / views<br>mm / view direction labelled         | Revision / Date<br>D / 2026-10-07             |
| Author<br>Opus 5.5               | General tolerance<br>ISO 20457 TG6 / Protolabs std.   | Sheet<br>2 / 5                                |

VIEW C - BOTTOM WALL FROM OUTSIDE (-Y), side action 1, 1:1



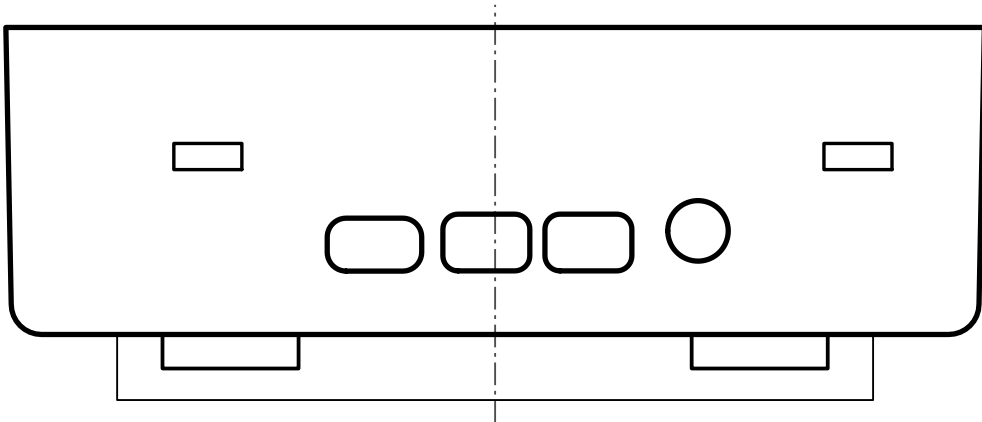
USB/RJ45 opening R1: upper (USB) part X -95.6...-60.3 up to z 27.9, RJ45 part to z 25.0  
vents 2.2 × 14 (R1), z 6-20, X: -36, -16, -11, -6, -1, 9, 14, 19, 39, 44, 49, 59, 64, 69, 89  
snap windows 9 × 3.46, z 21.8-25.26 (catch edge z 25.26) at X -25, 30, 80

VIEW D - TOP WALL FROM OUTSIDE (+Y), side action 2, 1:1



vents 2.2 × 14 (R1), z 6-20, X: -91, -86, -66, -61, -56, -51, -46, -36, -31, -26, -21, -16, -11  
9, 14, 19, 24, 29, 34, 44, 49, 54, 59, 64, 69, 89 | snap windows X -75, 0, 80

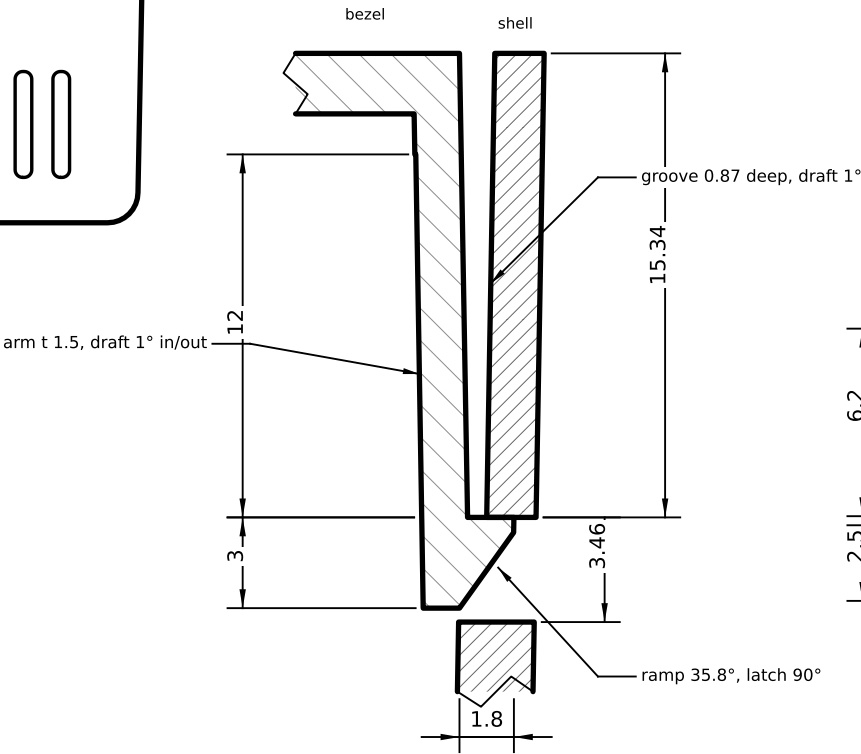
VIEW E - LEFT WALL (-X), side action 3, 1:1



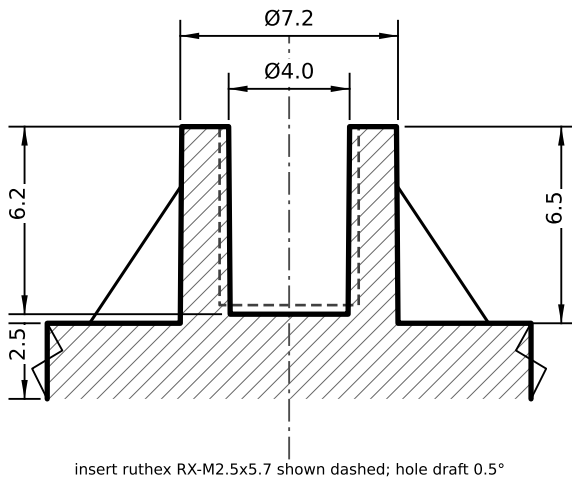
| Opening (left wall) | Y         | z centre | Size                              |
|---------------------|-----------|----------|-----------------------------------|
| USB-C (power)       | +15.96    | 11.88    | 12.5 × 7.0, R2.5 (plug overmould) |
| micro-HDMI 0        | +1.16     | 12.16    | 11.5 × 7.5, R2                    |
| micro-HDMI 1        | -12.34    | 12.16    | 11.5 × 7.5, R2                    |
| AV jack 3.5 mm      | -26.84    | 13.70    | Ø8                                |
| Snap windows        | +38 / -48 | 23.53    | 9 × 3.46                          |

Y from datum C (Y = 0), z from datum A (back face).  
All wall openings: 1° draft in the slide direction (opening widens outward).

DETAIL F - SNAP SECTION (top wall), 4:1



DETAIL G - BOSS (4×), 4:1



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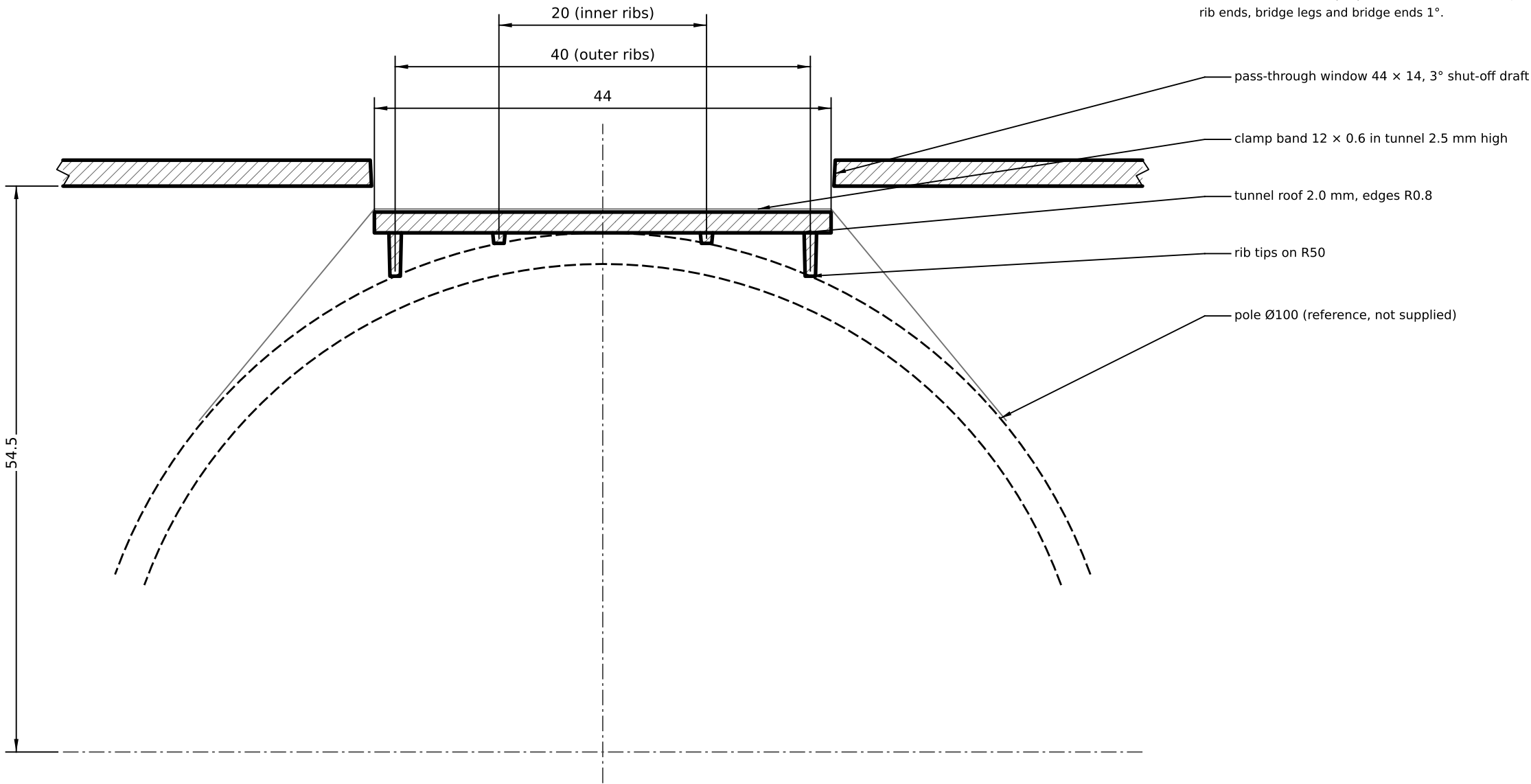
REAR SHELL - WALL OPENINGS & DETAILS

|                                  |                                                       |                                   |
|----------------------------------|-------------------------------------------------------|-----------------------------------|
| Part number<br><b>RPS-100-02</b> | Material<br>ABS FR - Polylac PA-765, black (UL94 5VA) | Mass<br>128.7 g (ABS 1.06 g/cm³)  |
| Scale<br>1:1 (details 4:1)       | Units / views<br>mm / view direction labelled         | Revision / Date<br>D / 2026-10-07 |
| Author<br>Opus 5.5               | General tolerance<br>ISO 20457 TG6 / Protolabs std.   | Sheet<br>3 / 5                    |

SECTION H-H AT Y = +35 (band tunnel), view from +Y, 2:1

NOTES

- 1. Saddle ribs: 5×, t 1.5 root → 1.0 tip, Y −50...+50.
- 2. Band tunnels: 2× at Y = ±35, 14 × 2.5 mm, roof 2.0 mm.
- 3. Clamp DIN 3017-1 A, 90-110 × 12, W4; band loop 322 mm.
- 4. Band tension presses the roof straight onto the pole:  
roof loaded in compression, not bending.
- 5. Pass-through cores form the tunnel roof from inside;  
windows 44 × 14 in the back wall (hidden by the pole).
- 6. Draft toward the back (−Z): saddle-rib flanks ≥ 1.5°,  
rib ends, bridge legs and bridge ends 1°.

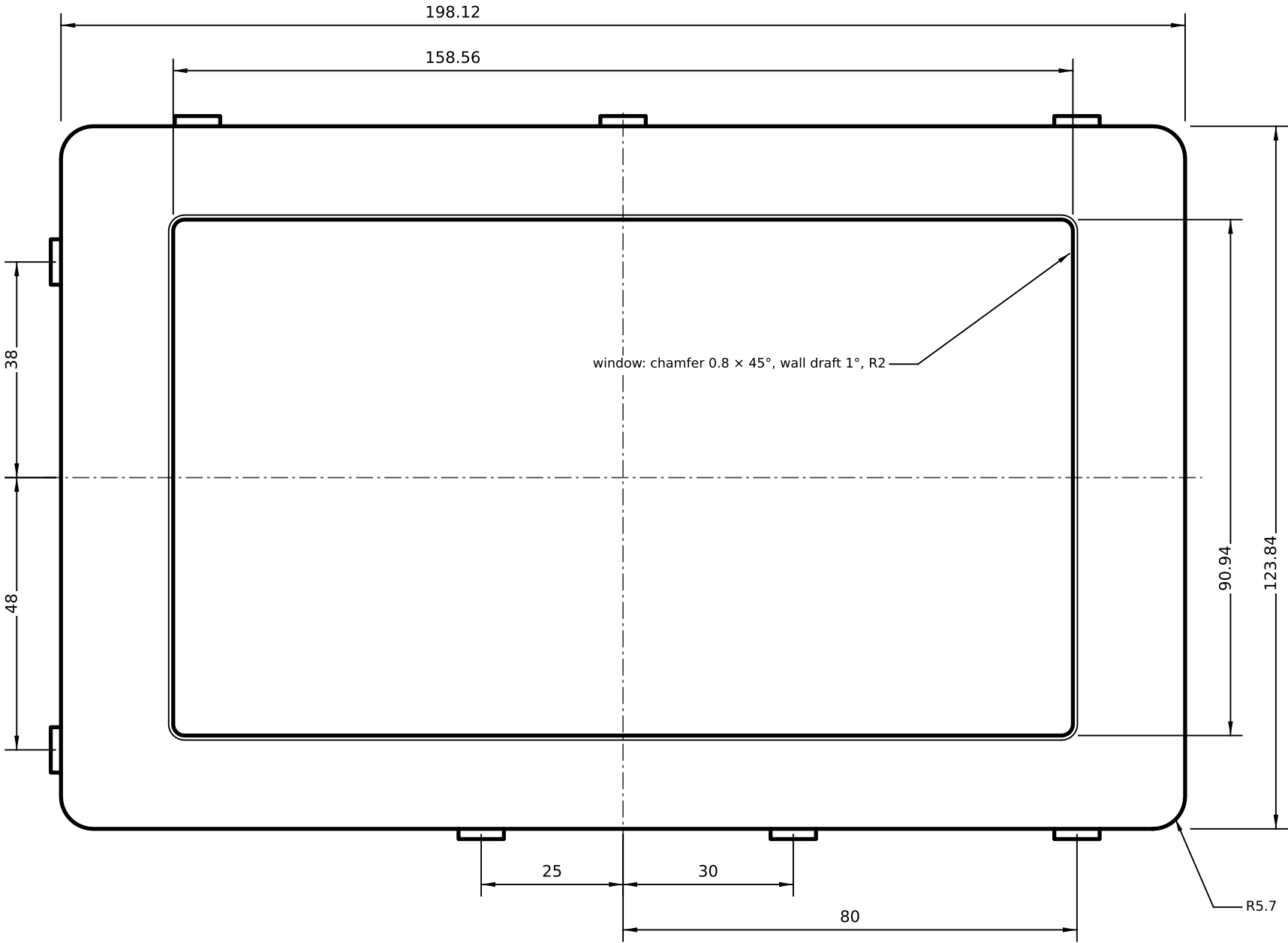


NOT RELEASED FOR MANUFACTURING

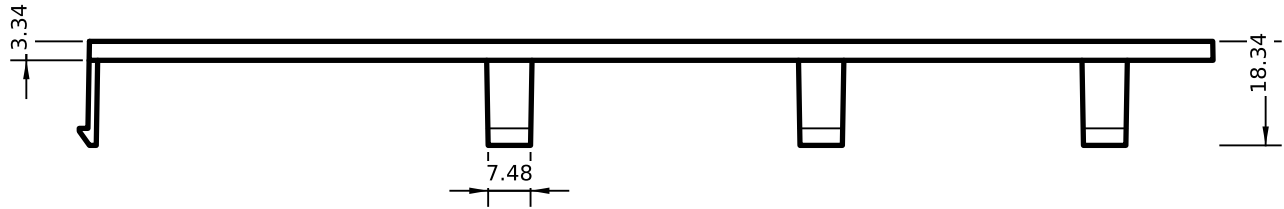
AI-generated (Opus 5.5), not yet finally reviewed by an engineer. Review and approval by a qualified person required before quoting, ordering or manufacturing.

| REAR SHELL - POLE SADDLE SECTION |                                                       |                                   |
|----------------------------------|-------------------------------------------------------|-----------------------------------|
| Part number<br>RPS-100-02        | Material<br>ABS FR - Polylac PA-765, black (UL94 5VA) | Mass<br>128.7 g (ABS 1.06 g/cm³)  |
| Scale<br>2:1                     | Units / views<br>mm / view direction labelled         | Revision / Date<br>D / 2026-10-07 |
| Author<br>Opus 5.5               | General tolerance<br>ISO 20457 TG6 / Protolabs std.   | Sheet<br>4 / 5                    |

VIEW A - FRONT (+Z), 1:1



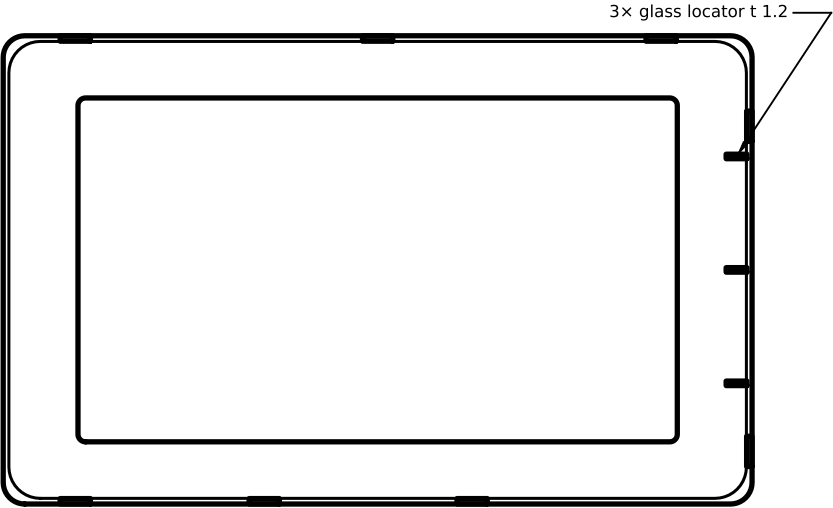
VIEW C - FROM BELOW (-Y), 3:4



NOTES

1. Material ABS FR, Protolabs Polylic PA-765 black (UL94 5VA).
2. Plate 2.0 mm, skirt 1.5 mm, glass locators 1.2 mm (60 %).
3. Straight pull, no side actions: hook lips project beyond the plate outline. Parting line on the rear edge of the outer rim (z 37.26), stepped down the hook outer edges to the latch edges (z 25.26).
4. Draft 1° on every face parallel to the pull. A-side: outer rim + hook outer faces (neutral = front face A), window. B-side: skirt inner, glass locators, hook sides (neutral = hook root z 37.26), hook inner faces, lip lands. Outline dimensions apply at the front face (datum A).
5. Hooks: 3 top (X -75/0/80), 3 bottom (X -25/30/80), 2 left (Y 38/-48); arm t 1.5 mm, width 8.0 at root, latch 12 mm from the skirt, undercut 0.9 mm, strain 1.41 %.
6. A-side (front) cosmetic, SPI-B2 / PM-F1, no sink marks; gate: tab gate on the left skirt.
7. Glass bonded with 3M VHB 5925 (0.64 mm), strips 8 mm.
8. Datums: A = front face, B / C = mid-planes.
9. 3D CAD model (STEP) is master for undimensioned geometry.

VIEW B - BACK (-Z), 1:2



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FRONT BEZEL (housing top part)

|                                  |                                                       |                                   |
|----------------------------------|-------------------------------------------------------|-----------------------------------|
| Part number<br><b>RPS-100-01</b> | Material<br>ABS FR - Polylic PA-765, black (UL94 5VA) | Mass<br>24.3 g (ABS 1.06 g/cm³)   |
| Scale<br>1:1 (B 1:2, C 3:4)      | Units / views<br>mm / view direction labelled         | Revision / Date<br>D / 2026-10-07 |
| Author<br>Opus 5.5               | General tolerance<br>ISO 20457 TG6 / Protolabs std.   | Sheet<br>5 / 5                    |