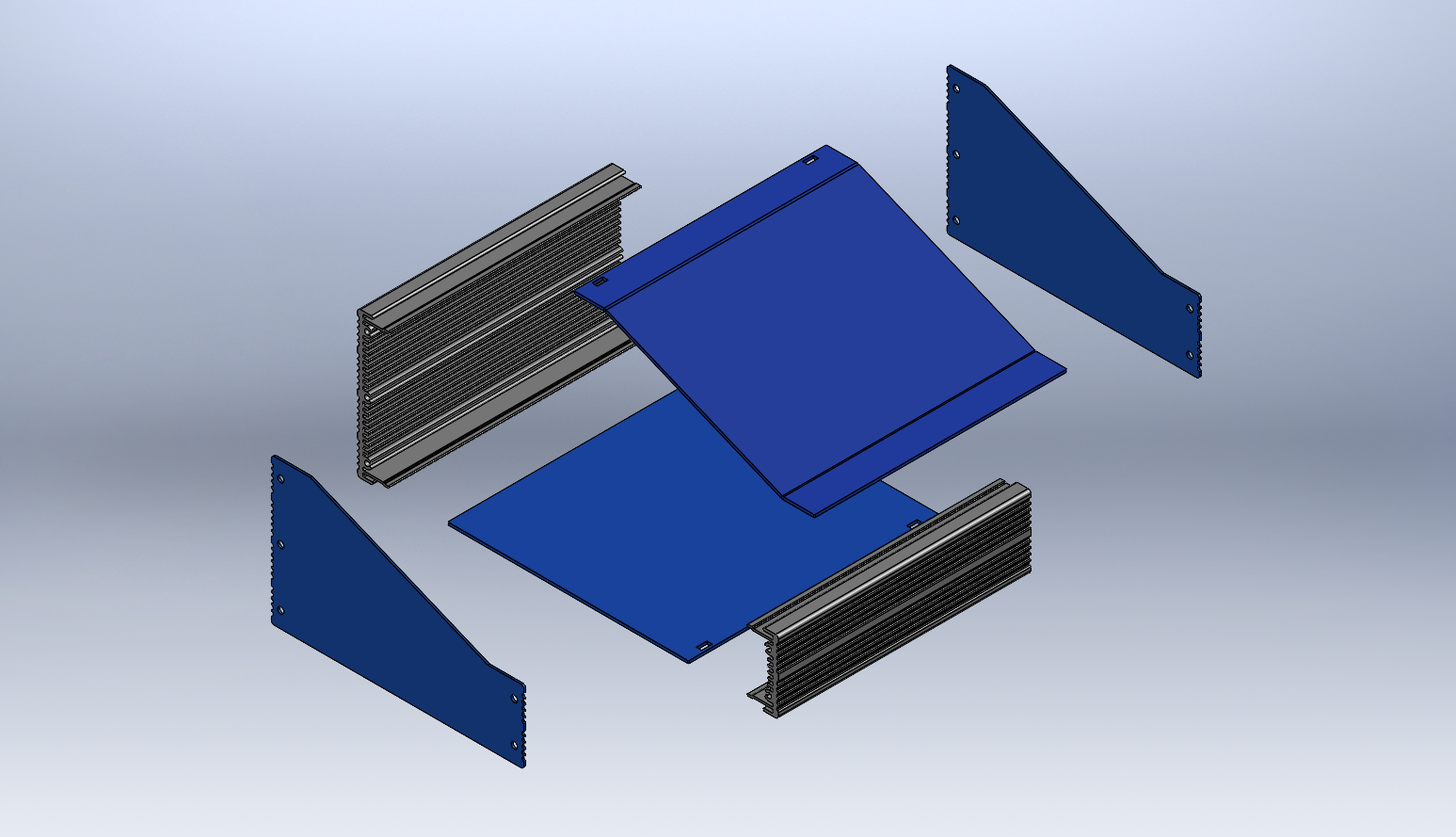
Extruded Cases

<https://www.protocase.com/products/electronic-enclosures/aluminum.php>

The Extruded Consolet

The Extruded Consolet is made up of parts: Front extrusion (1U), Rear extrusion (2U), Top, Bottom and two sides. (See illustration below)



The are the same 6063 extrusions used for the 1U and 2U cases.

The top and bottom are 0.064” aluminum. Different materials or thicknesses will not fit correctly, so it is not recommended to change this. The sides are typically 0.064” (0.051” is the default in Protocase Designer) but they can be any material or thickness we stock.

Extrusion Consolet size

The case is 3.47” tall at the rear.

The maximum case width (side to side) is 35” and the maximum case depth (outside of extrusion to extrusion) is 23”.

The minimum case width is 2” and the minimum case width is recommended to be over 2”.

These dimensions are to the outside of the extrusion.

Finishes Available

The extrusions themselves come with a bare aluminum mill finish. We can apply a powder coat or chem film finish in house. When powder coated is applied the extrusions have the inside masked to remain free of finish so the powder coat does not affect the dimensions. Anodizing the is not recommended.

The sides, top and bottom can have any of our in house finishes or anodizing applied with no issues.

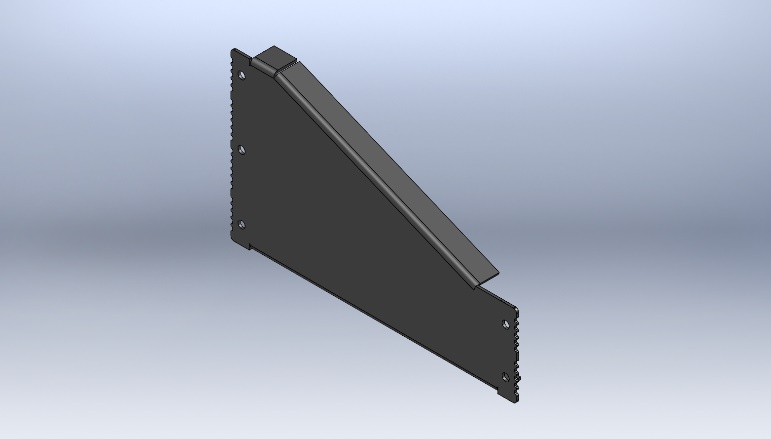
Self-Clinching fasteners

We cannot insert any self-clinching fasteners in the extrusions as they are. If necessary we can mill areas down to insert the fasteners. We can insert fasteners in the panels as long as they do not interfere with the extrusion when the case is assembled.

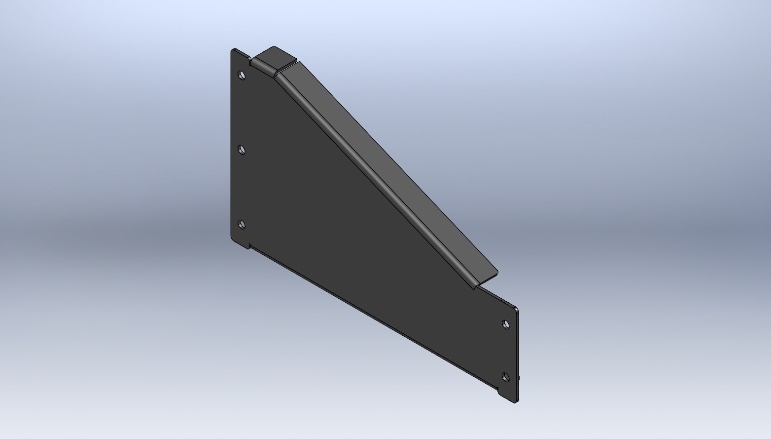
Case Options

There are six different types of side panels, the right-side panels are shown below. The left side panels are the mirror image of the right side:

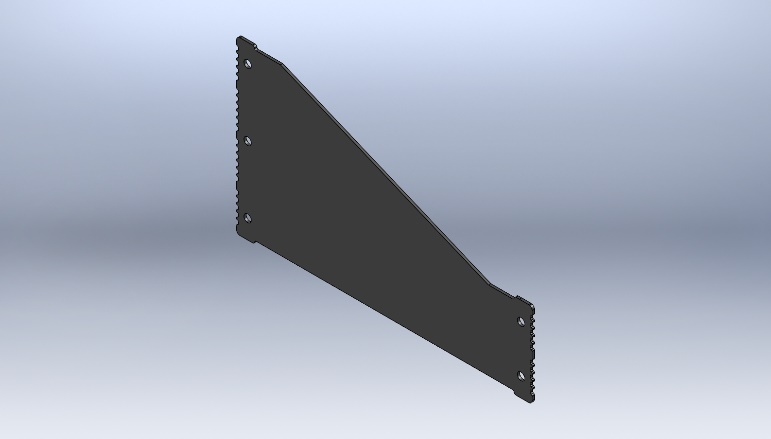
Type A - contoured sides with top and bottom flanges



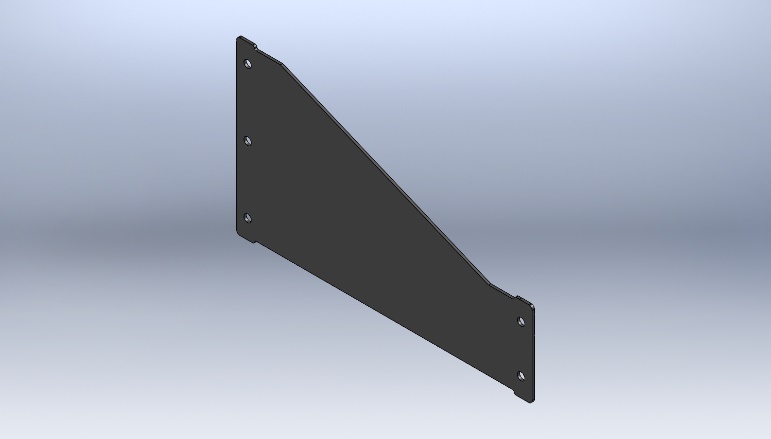
Type B - straight sides with top and bottom flanges



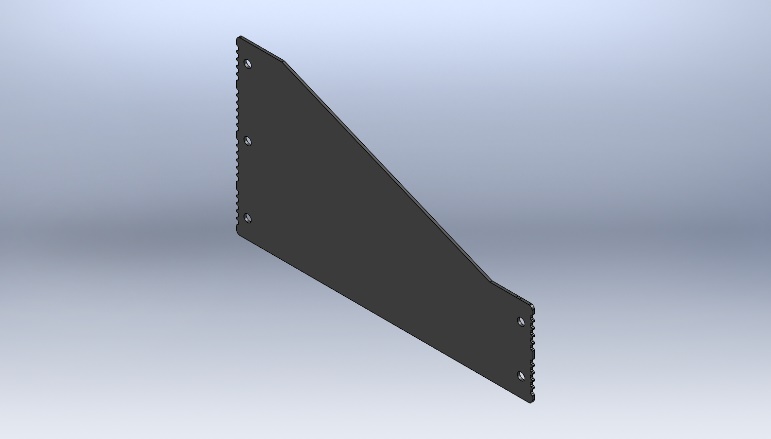
Type C - profiled sides with flush top and bottom



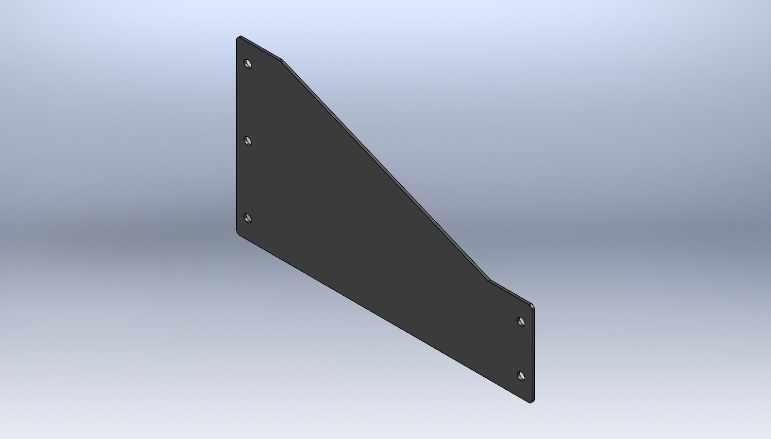
Type D - straight sides with contoured top and bottom



Type E - contoured sides with straight top and bottom



Type F - straight side, top and bottom



Questions and Answers

Q: What is the internal height of the Extruded Consolet?

A: 3.194” or 81.1mm at the rear of the case, 1.44 or 36.7mm at the front.

Q: What material can be used for the sides?

A: Any of our stock materials can be used.

Q: Are the exterior fins removable/can the extrusion be modified?

A: The extrusion can be milled to make changes, but the base design of it is not modifiable.

Q: What is the IP/NEMA rating?

A: The cases are not IP/NEMA rated.

Q: What finish is on the extrusions?

A: They have a mill finish. The can be chem filmed, powder coated or anodized, but anodizing is not recommended.

Q: Can self-clinching fasteners be inserted into the panels?

A: Yes, but only in locations where they will not interfere with the extrusion.

Q: What screws are used for attaching the front and rear?

A: #6 thread forming screws are used.

Q: Do you have a 3D template for the extruded case?

A: Yes, here is the link. (Insert link here)

Q: What thickness of PCB will fit in the slots?

A: The slots are 0.070” wide, if your PCB is thinner than this it will fit.

Q: What size are the plates on the case?

A: The top and bottom are 0.064” aluminum. The sides are 0.051” by default in our Protocase Designer software, but can be any thickness we stock. Changing the top and bottom material and thickness is not recommended.

Q: What parts are there in an extruded case?

A: Front extrusion (1U), Rear extrusion (2U), Top, Bottom and two sides.