

MI054.2 - Linear Luminaire Profile

Fabrication Design

Fabrication Notes:

Aluminium L-Shaped Profile (PPC to RAL 808005)

Material: Aluminium (e.g., 6063-T6 or 6061-T6) for strength, corrosion resistance, and extrudability.

Shape: L-shaped angle with two legs (unequal, 30–50.3 mm) and thickness 5 mm.

Finish: Powder-coated polyester (PPC) to RAL 808005 (Micaceous Light Grey or Council Approved Colour).

Coating: 60–80 microns, UV-resistant, durable, applied after surface pre-treatment.

Applications: Architectural (trims) to baffle linear light fittings.

Extrusion: Precision die for uniform thickness; tolerances ± 0.5 mm (EN 755-9).

Cutting: CNC saws for clean cuts; de-burr edges if needed.

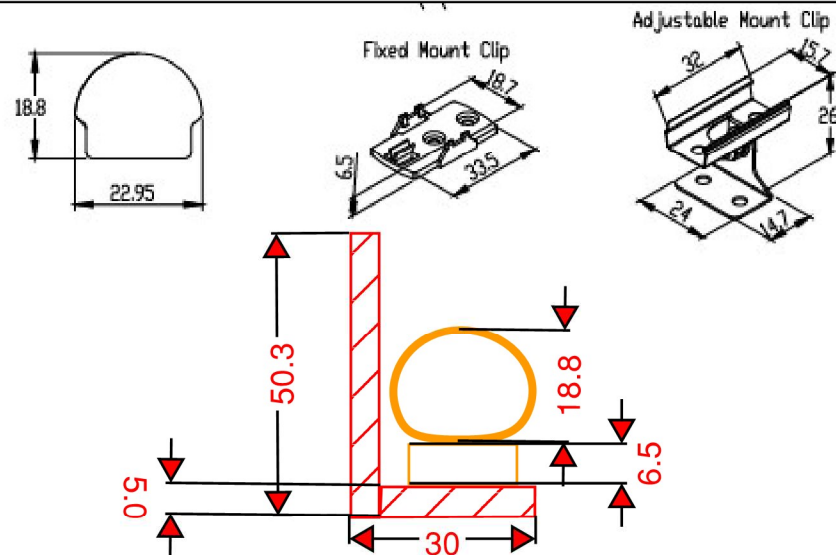
Powder Coating: Ensure even application at corners & cure; inspect for defects.

Machining: CNC drilling/punching; avoid coating cracks if bending; weld before coating.

Quality Control: Check dimensions, coating adhesion (ASTM D3359), corrosion resistance (ISO 9227).

Handling: Protect PPC finish with film/foam; package to avoid scratches.

Challenges: Ensure coating uniformity at angles; account for thermal expansion; verify RAL colour



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