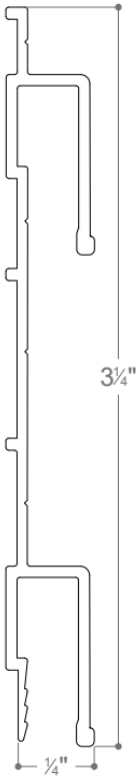


AP-108-W Double Profile D — Technical Data Sheet

CeilEx

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AP-108-W cross-section (2D)

Product Overview

AP-108-W “Double Profile D” is an aluminum profile with **two membrane channels in a single body**, engineered for **luminous (backlit) stretch ceilings that require a dust-protection layer**.

It holds two membranes at once:

- **Lower layer** — the visible **translucent diffuser** (the luminous surface).
- **Upper layer** — a **dust-barrier membrane** that closes the cavity above.

The sealed cavity between the two layers keeps dust and insects off the back of the translucent diffuser. This matters because a backlit ceiling is viewed *in transmission* — any dust, fiber, or insect on the upper face of a translucent membrane shows through as **dark spots or cloudy patches when the ceiling is lit**. The second membrane (what the industry, including Barrisol, calls a “**dust barrier**”) prevents that, keeping the luminous surface flawless for years.

Property	Specification
Profile code	AP-108-W
Product name	Double Profile D
Category	Standard
System type	Double-membrane luminous / dust-barrier profile
Configuration	Two membrane retention channels in one extrusion
Primary use	Backlit (luminous) stretch ceilings requiring a sealed dust-protection layer
Also enables	Stepping the ceiling between levels; floating a separate element; multi-level / 3D layouts
Cross-section	3-1/4 in x 1/4 in (83 mm x 6 mm)
Profile length	6.5 ft (2000 mm), supplied in white
Formability	Bendable for curved and shaped runs
Material	Extruded aluminum, 6063 alloy; white finish (custom available)

Membrane System

Property	Specification
Lower (visible) layer	Translucent diffuser — PVC translucent or Clipso cold-stretch
Upper layer	Dust-barrier membrane sealing the luminous cavity
Seamless width	Up to 18 ft (5.5 m) with no weld seam
Run length	Up to 100 ft (30 m)
Standard colors	White (translucent); Black and custom available
Acoustic option	Upper layer can be a perforated acoustic membrane with backing
Light quality	Even, uniform diffusion; the sealed double layer also homogenizes the LED field and removes hotspots and shadows

Why two layers (summary)

1. **Dust protection** — sealed cavity blocks dust and insects from the translucent face, so no dark spots appear when backlit.
2. **Light uniformity** — the second membrane acts as a secondary diffuser, smoothing the LED field.
3. **Optional acoustics** — a perforated upper membrane adds sound absorption.

Performance / Compliance

Property	Specification
Profile material	Non-combustible aluminum
Membrane fire rating	Class A per ASTM E84 (flame spread less than or equal to 25, smoke less than or equal to 450)
Fastening	Mechanical to substrate, 8 in o.c. maximum
CSI section	09 72 13 — Stretch / Fabric Ceiling Systems

Digital Assets Available

- **DWG** — profile cross-section and typical luminous-ceiling section detail
- **Revit family (.rfa)** — on request
- **PDF** — this data sheet

Specification Language (CSI 09 72 13)

SECTION 09 72 13 – STRETCH CEILING SYSTEMS – LUMINOUS / DUST BARRIER

DOUBLE-MEMBRANE LUMINOUS PROFILE

- A. Basis of design: CeilEx AP-108-W "Double Profile D", aluminum double-channel profile (ceilex.com).
- B. Profile: extruded 6063 aluminum, white; two membrane channels in one body; 3-1/4" x 1/4" section; 6.5 ft (2000 mm) length; bendable.
- C. Assembly: lower translucent diffuser membrane plus upper dust-barrier membrane, perimeter-sealed to form a closed luminous cavity that keeps dust and insects off the visible translucent layer.
- D. Membrane: translucent PVC or Clipso cold-stretch, up to 18 ft (5.5 m) seamless and up to 100 ft (30 m) runs; White or custom; acoustic upper-layer option.
- E. Fire: membrane Class A per ASTM E84.

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