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Product Specification Document

ACAD-475/908ABWF Rev 1

Product ID: 475/908AB-WF

Application: Lighting Reflectors, primarily HID

Material Specification:

Alloy: 1070

Temper: H19

Mechanical Properties (typical):

Tensile Strength: 185 N/mm² (27,000 psi)

Yield Strength: 175 N/mm² (25,000 psi)

Elongation: 4%

Minimum Bend Radii: 1.5T

Optical / Anodized Properties (optical properties are measured prior to embossing):

Total Reflectance (TR%)¹: 86% minimum ¹(Technidyne TR-2 (ASTM 1651-94))

Distinctness of Image (DI)²: 93 minimum ²(Hunter Labs D47 Dorigon (ASTM E430-83))

Specular Reflectance (RS)²: 65 Minimum ³(DIN 67530)

15° Diffuseness (15°)²: n.01 maximum ⁴(Byk Gardner Micro Gloss Meter)

Dr. Lange 60°³: w/g 75-85 a/g 75-85 ⁵(ASTM B137-89)

Gardner 60° Gloss⁴: w/g n/a a/g n/a ⁶(Hunter Lab mini-Scan XE Plus)

Anodize Film Thickness⁵: 0.75 to .1.0 microns (.000003 to .000004 inch)

Iridescence Rating: Not Controlled

Color⁶: L* n/a a* n/a b* n/a

Availability: Sheet and Coil

Gage: 0.25 to 0.80 mm (0.010 to 0.032 inch)

Width: 25.4 to 1250 mm (1.0 to 49.21 inch)

Length: up to 3660 mm (up to 144 inch)

Tolerances (standard): (Tighter tolerance may be possible. Contact your sales representative.)

Gage: From: 0.25 to 0.40 mm +/- 0.025 mm (0.010 to 0.016 inch, +/- 0.001 inch)
 0.41 to 0.80 mm +/- 0.040 mm (0.017 to 0.032 inch, +/- 0.0015 inch)
 0.81 to 1.00 mm +/- 0.050 mm (0.033 to 0.040 inch, +/- 0.002 inch)

Slit Width: From: 12.5 to 305 mm +/- 0.125 mm (0.5 to 12 inch, +/- 0.005 inch)
 306 to 610 mm +/- 0.38 mm (12.1 to 24 inch, +/- 0.015 inch)
 611 to 1250 mm +/- 0.50 mm (24.1 to 50 inch, +/- 0.020 inch)

Sheet: Length: Up to 1524 mm +/- 1.0 mm (Up to 60 inch, +/- 0.040 inch)
 1525 to 3050 mm +/- 1.5 mm (60 to 120 inch, +/- 0.060 inch)
 3051 to 3660 mm +/- 2.0 mm (120 to 144 inch, +/- 0.080 inch)

Squareness:¹ Up to 1200 mm +/- 0.5 mm (Up to 48 inch, +/- 0.020 inch)
 1201 to 2400 mm +/- 1.0 mm (49 to 95 inch, +/- 0.040 inch)
 2401 to 3660 mm +/- 1.5 mm (96 to 144 inch, +/- 0.060 inch)

¹ Difference in diagonals

Lateral Bow (in one meter): Width Under 300 mm: 2.5 mm max. (Width Under 12 inch: 0.100 inch)
 Width Over 300 mm: 1.25 mm max. (Width Over 12 inch: 0.050 inch)

Flatness: Height between waves: 1% of wave length, 8mm (0.32 inch) maximum.

Burr: 10% of gage Not to exceed .08 mm (.003 inch)