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Product Specification Document

ACAD-481 MRXZ Rev3

Product ID: 481MRXZ Lighting White on Steel 86TR				
Application: LED Reflectors and Fixtures ■ Traditional Reflectors and Louvers				
Material Specification: For Comparison Purposes-Not to be used for Engineered Specifications.				
Alloy:	Steel – Cold Rolled Commercial Brite			
Temper:	B-71			
Mechanical Properties (typical):				
Tensile Strength:	440 MPa			(63,800 psi)
Yield Strength	395 MPa			(≥57,300 psi)
Elongation:	≥15%			
Optical / Anodized Properties:				
Total Reflectance (TR%) ¹ :	84% minimum		¹ (CIE "Y")	
Gardner 60° Gloss ²	5-10		² (ASTM D 523 / ISO 7668)	
Color ³ :	L* 93 to 97	a* -3 to 1	b* -1 to 3	³ (CIE L* a* b*)
Availability: Sheet and Coil				
Gage:	0.43 to 1.01 mm	(0.017 to 0.040 inch)		
Width:	12.7 to 1346.2 mm	(0.50 to 53.000 inch)		
Length:	up to 3660 mm	(up to 144 inch)		
Tolerances (standard): (Tighter tolerance may be possible. Contact your sales representative.)				
Gage:	From:	0.43 to 0.80 mm	+/- 0.040 mm	(0.017 to 0.032 inch, +/- 0.0015 inch)
		0.81 to 1.01 mm	+/- 0.050 mm	(0.033 to 0.040 inch, +/- 0.002 inch)
Slit Width:	From:	12.7 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 1282 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)		