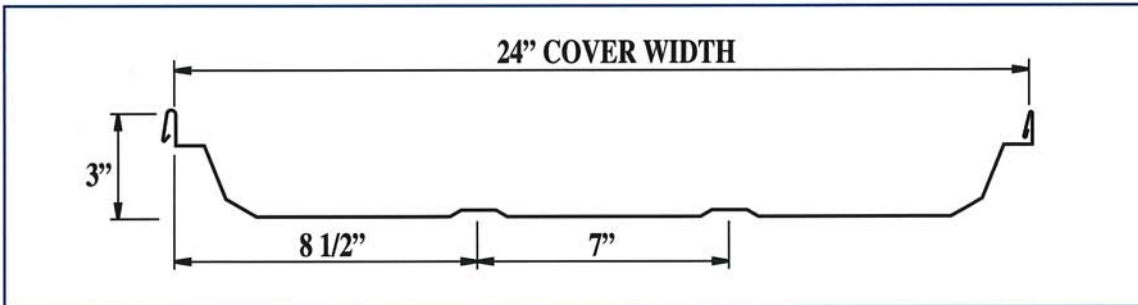


MASTERLOK-90

PRODUCT INFORMATION



MasterLok-90 is a trapezoidal standing seam system designed for projects with slopes as low as 1/4":12". MasterLok-90 is best suited for simple sloped roofs without dormers, hips, valleys, or other special conditions. ML-90 can be installed over solid decking or substructural members.

PANEL OPTIONS

Panel Width: 24"

Standard Panel Length: Up to 40'
Please inquire for longer lengths.

Minimum Slope: 1/4":12"

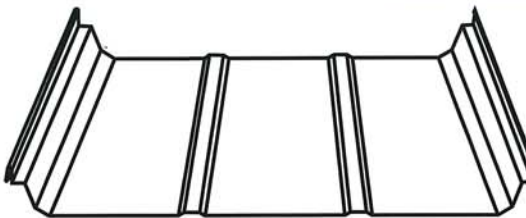
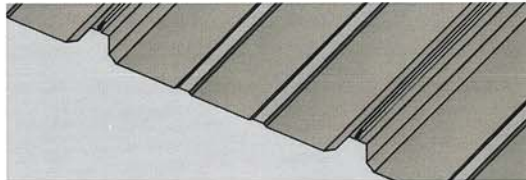
Substrate: Galvalume®

Paint System: Kynar 500®

Gauge: 22 and 24

Factory applied sealant in seam to improve weathertightness.

Oil canning is a natural occurrence in metal panels and is not a cause for panel rejection.



MASTERLOK-90 SECTION PROPERTIES

Panel Gauge	Weight PSF	FY KSI	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
			Ix IN.4	Se IN.3	Ma KIP IN.	Ix IN.4	Se IN.3	Ma KIP IN.
24	1.24	50	.3202	.1291	3.87	.1722	.0994	2.98
22	1.60	50	.4136	.1666	4.99	.2385	.1391	4.16

1. Section properties are calculated in accordance with the 1986 Edition of the Cold Formed Steel Design Manual.
2. Ix is for deflection determination.
3. Se is for bending.
4. Ma is the allowable bending moment.
5. All values are for one foot of panel width.

MASTERLOK-90 LOAD TABLE

Ga.	LIVE LOAD						DEFLECTION (IN)					
	3'	3.5'	4'	4.5'	5'	5.5'	3'	3.5'	4'	4.5'	5'	5.5'
24	257	189	145	114	93	77	.20	.23	.27	.30	.33	.37
22	360	264	202	160	130	107	.20	.23	.27	.30	.33	.37

1. Allowable loads are based on uniform span lengths and Fy of 50 KSI.
2. LL is allowable gravity load.
3. Deflection resulting from the load LL and is limited to L/180 of span.
4. Weight of the panel has not been deducted from allowable loads.

TESTING

UL 90 -Uplift Test
Class A - Fire Rating
ASTM E 1680 - Air Infiltration
ASTM E 1646 - Water Infiltration
UL 2218 - Class 4 Impact Resistance

MAKO
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 **McElroy Metal, Inc.**

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