R & M STEEL CO

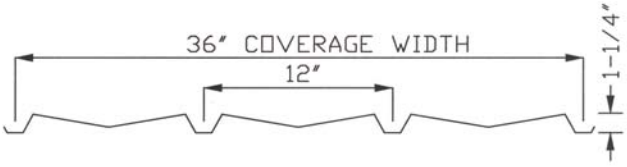
STEEL BUILDING COMPONENTS

P.O. Box 580
Caldwell, Idaho 83606

Phone: 1-208-454-1800 Toll Free: 1-866-454-1800
Fax: 1-208-454-1801 Toll Free: 1-866-454-1801
Email: sales.rmsteel@gmail.com

ARCHITECTURAL A-36





Material Specifications

Paint Finish:	CERAM-A-STAR™ 1050 40-year SMP Paint System
Yield Strength:	80 KSI
Galvanized Steel:	26-gauge

Description

Architectural A-36 is a 36" net coverage steel box rib panel with 1-¼" ribs at 12" on-center. This panel is designed for application on wall sub-structural members typically at 5' on-center.

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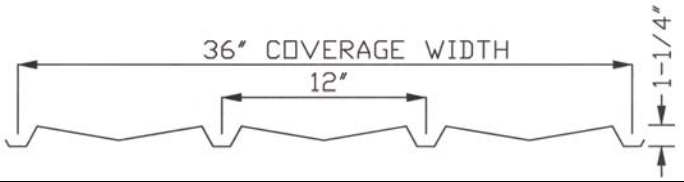
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PANEL PROFILES

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ARCHITECTURAL A-36



Notes On Section Properties and Load Table

- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- M_a is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of L/180.

Section Properties 36" Wide, R & M STEEL CO ARCHITECTURAL A-36									
Gauge	Thickness (in.)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I_{xx}	S_{xx}	M_a	I_{xx}	S_{xx}	M_a
				$In^4/ft.$	$In^3/ft.$	In.kips/ft.	$In^4/ft.$	$In^3/ft.$	In.kips/ft.
29	.015	.666	80	.023	.032	1.164	.023	.029	1.038
26	.019	.859	80	.031	.042	1.544	.032	.040	1.470
24	.024	1.090	80	.043	.056	1.691	.043	.055	1.676

Single Span Condition									
Span (ft.)	29-Gauge & 80 ksi			26-Gauge & 80 ksi			24-Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	86	73		114	100				
4	48	31		64	42				
5	31	16		41	22				
6	22	9		29	13				
7	16	6		21	8				
8	12	4		16	5				

Two Span Condition									
Span (ft.)	29-Gauge & 80 ksi			26-Gauge & 80 ksi			24-Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	77	77		109	109				
4	43	43		61	61				
5	28	28		39	39				
6	19	19		27	27				
7	14	14		20	20				
8	11	9		15	13				

Three or More Span Condition									
Span (ft.)	29-Gauge & 80 ksi			26 Gauge & 80 ksi			24 Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	216	216		**306**	**306**				
4	138	138		196	196				
5	96	96		136	136				
6	54	58		77	77				
7	35	30		49	41				
8	24	17		34	24				
9	18	11		25	15				
10	14	7		19	10				