



R & M STEEL CO

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STEEL BUILDING COMPONENTS

ARCHITECTURAL 16



Material Specifications

Paint Finish: CERAM-A-STAR™ 1050
40-year SMP Paint System

Yield Strength: 50 KSI

Galvanized Steel: 26-gauge

Description

Architectural 16 is a 16" wide net coverage, concealed fastener panel. This panel is designed for application over solid sheathing with a 30-lb felt paper underlayment. A flat-head fastener is applied at the side lap, at 18" on-center.



STEEL BUILDING COMPONENTS

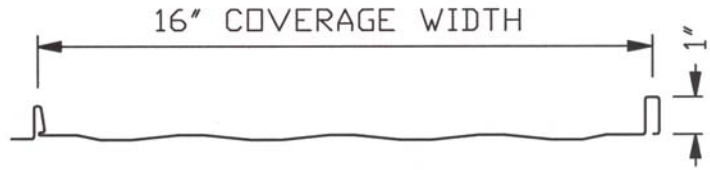
PANEL PROFILES

Thank you for your business.
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ARCHITECTURAL 16

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.
- WL is allowable wind load and has been increased by 33-1/3%.

Section Properties 16" Wide, R & M STEEL CO ARCHITECTURAL 16									
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
26	.019	1.0139	50	.020	.024	.720	.013	.020	.607

Span (ft.)	Single Span Condition	
	26-Gauge & 50 ksi	
	LL (S) (psf)	LL (D) (psf)
3	53	53
4	30	28
5	19	14

Span (ft.)	Two Span Condition		
	26-Gauge & 50 ksi		
	LL (S) (psf)	LL (S) (psf)	LL (S) (psf)
3	45	45	45
4	25	25	25
5	16	16	16

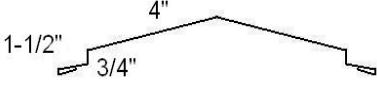
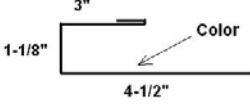
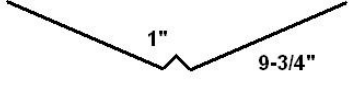
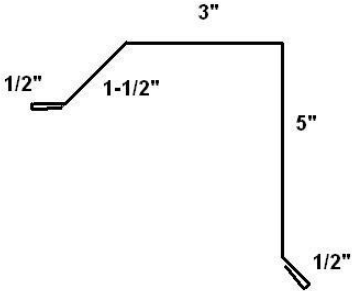
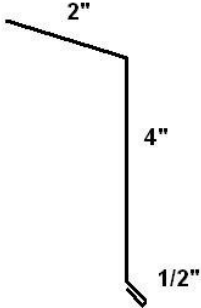
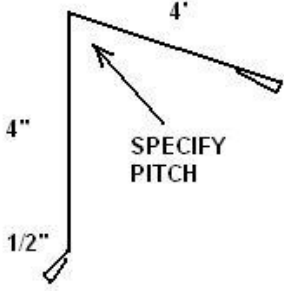
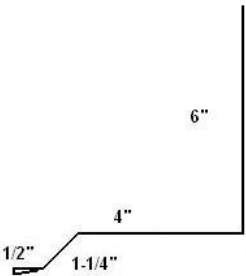
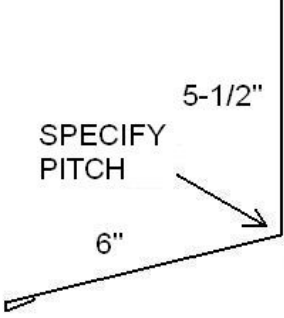
Span (ft.)	Three or More Span Condition		
	26-Gauge & 50 ksi		
	LL (S) (psf)	LL (S) (psf)	LL (S) (psf)
3	56	56	56
4	32	32	32
5	20	20	20



ARCHITECTURAL 16 TRIM SELECTION

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<p>Ridge Cap</p> 	<p>A-16 Reverse Panel Cap</p> 	<p>“W” Valley</p> 
<p>A-16 Gable Trim</p> 	<p>A-16 Eave Trim</p> 	<p>Peak Cap</p> 
<p>Sidewall Trim</p> 	<p>Endwall Trim</p> 	<p>Pitch Break</p> 