

# **TETON STEEL**

#### **MATERIAL SPECIFICATIONS**



LOAD TABLES

Refer to Trim Pamphlet for Material Availability

26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi												
SPAN		SPAN IN FEET										
TYPE	EGAD TIFE	3.0	4.0	5.0	6.0	7.0	8.0	9.0				
1-span	NEGATIVE WIND LOAD	133.48	75.08	48.05	33.37	24.52	18.77	14.83				
	LIVE LOAD/DEFLECTION	119.08	52.22	26.74	15.47	9.74	6.53	4.58				
2-span	NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66				
	LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	13.88				
3-span	NEGATIVE WIND LOAD	138.49	81.62	53.46	37.61	27.86	21.44	17.00				
	LIVE LOAD/DEFLECTION	120.00	86.91	57.11	34.86	21.95	14.71	10.33				
4-span	NEGATIVE WIND LOAD	130.70	76.70	50.12	35.22	26.06	20.05	15.89				
	LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	23.77	15.93	11.18				

24 Gauge (0.0223"), Fy = 50 ksi, Fu = 60 ksi												
SPAN		SPAN IN FEET										
TYPE	LOAD TIPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0				
1-span	NEGATIVE WIND LOAD	126.37	71.08	45.49	31.59	23.21	17.77	14.04				
	LIVE LOAD/DEFLECTION	125.69	70.70	38.51	22.28	14.03	9.40	6.60				
2-span	NEGATIVE WIND LOAD	120.59	69.04	44.56	31.09	22.91	17.57	13.90				
	LIVE LOAD/DEFLECTION	117.33	69.40	44.80	31.25	23.03	17.66	13.97				
3-span	NEGATIVE WIND LOAD	148.17	85.44	55.34	38.68	28.53	21.90	17.34				
	LIVE LOAD/DEFLECTION	133.33	85.87	55.62	38.89	28.68	19.34	13.58				
4-span	NEGATIVE WIND LOAD	139.13	80.03	51.77	36.16	26.66	20.46	16.19				
	LIVE LOAD/DEELECTION	128.33	80.43	52 04	36.35	26.81	20.57	14 45				

Strength Calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steer Structural Members."
Allowable loads are applicable for uniform loading and spans without overhangs.
INVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
NEE LOAD/DEFLECTION LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/160 under 10-year wind loading.
Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
This material is subject to change without notice please contact Teton Steel for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the **North American** Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel etermine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please ontact the manufacturer.

## Screw Patterns:





#### Available Gauges: 26 (24 by Special Order)

Weight: 2.67lbs/LnFt (26), 3.58lbs/LnFt (24)

Substrate: G-90, Grade 80 (26), AZ50, Grade 50 (24)

#### Available Materials: Painted & Galvalume

Paint System: Storm Shield<sup>™</sup>, Ceranamel<sup>™</sup>XT-40S, Certified Cool, Energy Star<sup>®</sup> Rated, Silicone **Modified Polyester** 

Warranties: Ceranamel<sup>™</sup>XT-40S – 40 Years Galvalume - 20 years

#### Minimum Slope: 3:12

.5:12 with Mastic Tape and Stitch Screws installed 1'0" up the panel at all overlaps



• UL 580 Wind Uplift (Class 90)

- UL 2218 Class 4 Hail Impact
- UL 790 Class A Fire Rating

### **APPLICATION DETAILS**

#### **Fastener Guide:**

#10 Woodfast screws are designed for use with dimensional lumber.

#14 Wafer screws are designed for use with plywood sheeting, OSB, and wafer wood (7/16" minimum thickness)

#12 Tek Screws are designed to be used with structural steel up to 3/16" in thickness

#### **Fastener Application:**

Screws are to be applied next to every rib and then up the panel, no more than 5'0". On low slope roofs, Mastic Tape must be applied between the panel side laps with Stitch Screws installed every 1'0" up the panel.

\*\*At the eave or end laps, a double screw pattern should be used with screws applied to both sides of the rib\*

**Please Note**: It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.



\*\*Teton Steel is neither partially or solely responsible for improper installation or defects as a result of installation \*\*

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