

THROUGH-FASTENED ROOF/WALL PANEL SYSTEMS TABLE OF CONTENTS

Valley Steel Roof and Wall Sheeting Perspective	3
Valley Steel Classic Roof™ System.....	5
Valley Steel Classic Roof™ Property and Span Tables	6
Valley Steel Wall Systems.....	7
Valley Steel Classic wall™ Property and Span Tables	9
Valley Steel Reverse Classic wall™ Property and Span Tables	10
Valley Steel Accent wall™ Property and Span Tables	13



PRODUCT & ENGINEERING MANUAL

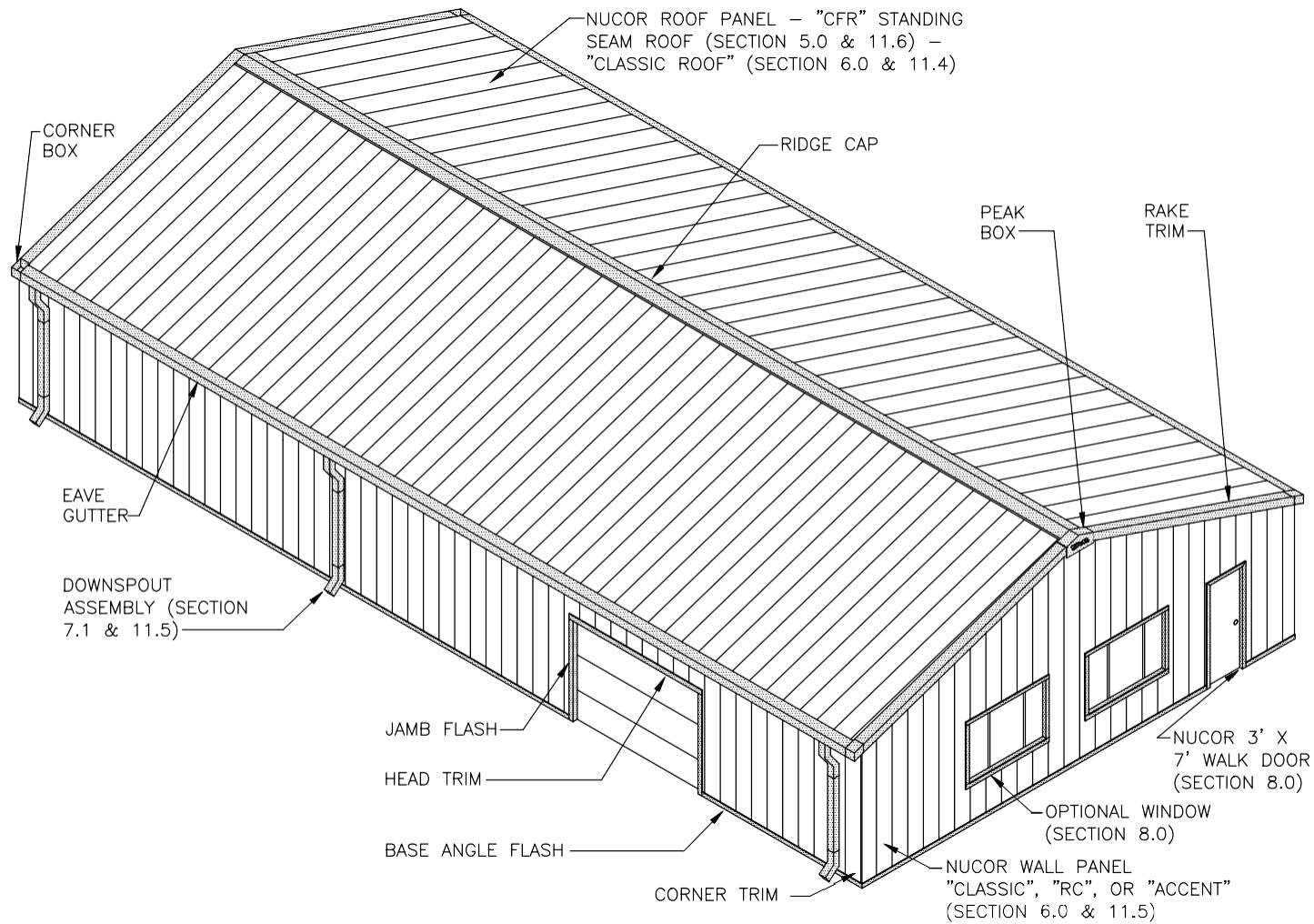
6.0.1



V A L L E Y
S T E E L
CONSTRUCTION INC.

PRODUCT & ENGINEERING MANUAL

VALLEY STEEL ROOF AND WALL SHEETING PERSPECTIVE



LAST REVISION
 DATE: 04/11/02
 BY: CDM CHK: RJF

DETAIL NAME IF APPLICABLE

SH0010PE.DWG

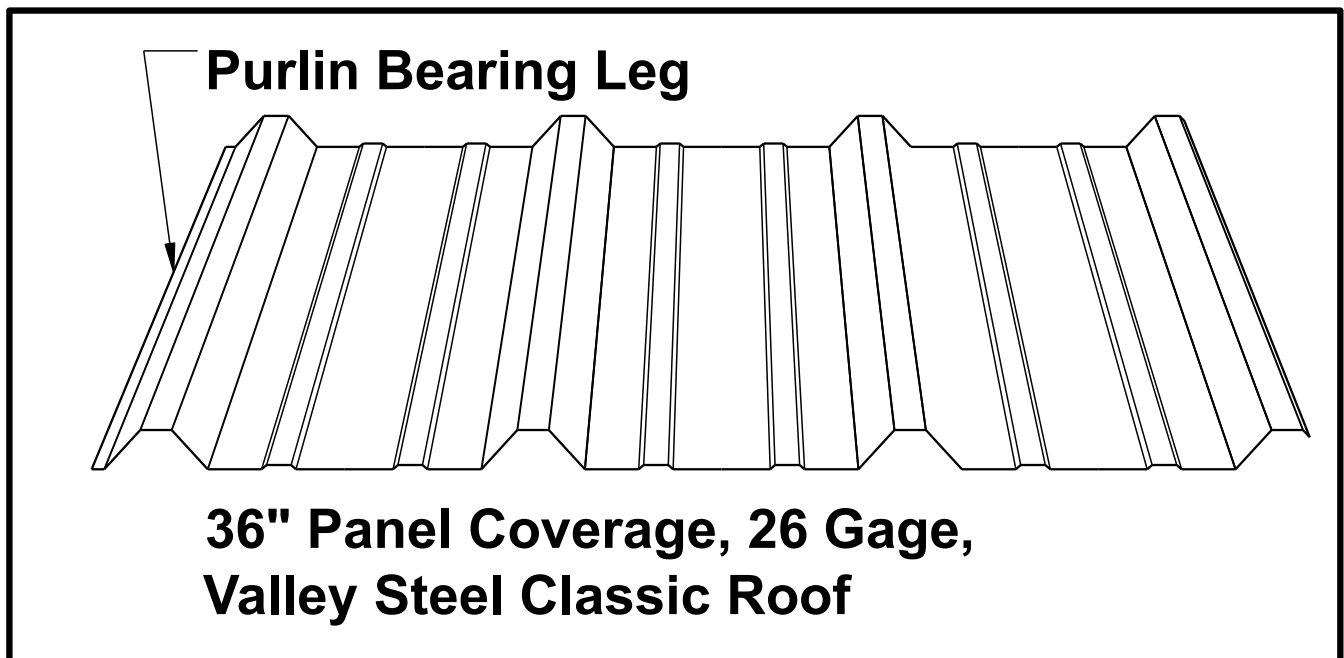
6.0.2



VALLEY STEEL CLASSIC ROOF™ SYSTEM

The Valley Steel Classic Roof™ through-fastened roof system panel is available as a component of one of Valley Steel Building Systems' Standard Roof Systems.

The standard Valley Steel Classic Roof™ System has a purlin bearing leg



Information about the available panel finishes, installation manuals, erection details, performance and testing information, and much more is available at the Valley Steel Building Systems website at the below link.

[Valley Steel Classic Roof™ Panel](#)

The following page outlines the span capacities for the Valley Steel Classic Roof™ Panel.

LAST REVISION

DETAIL NAME IF APPLICABLE

DATE: 03/11/15

SH0020PE.DWG

BY: AAJ CHK: MDK

VALLEY STEEL CLASSIC ROOF™ PROPERTY AND SPAN TABLES

Valley Steel Classic Roof™ Panel 26 - Gage: Fy = 50 ksi									
Panel Material Information					Panel Properties per foot of panel width				
						Top in Compression		Bottom in Compression	
Panel Gage	Thickness (in.)	Yield (Ksi)	Tensile (Ksi)	Panel Wt. (Psf)	Ix (Gross) (in ⁴)	Sx (eff.) (in ³)	Ma (Kip-in.)	Sx (eff.) (in ³)	Ma (Kip-in.)
26	0.0177	50	58	0.86	0.0493	0.040	1.2040	0.047	1.4017

Gravity Loading and Wind Pressure (psf): Panel: (Stress, Deflection, and Web Crippling)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
2.0	152	n/c	n/c	116	n/c	n/c	116	n/c	n/c
2.5	121	n/c	n/c	93	n/c	n/c	93	n/c	n/c
3.0	92	n/c	n/c	77	n/c	n/c	77	n/c	n/c
3.5	67	n/c	n/c	66	n/c	n/c	66	n/c	n/c
4.0	52	n/c	n/c	58	n/c	n/c	58	n/c	n/c
4.5	41	n/c	37	48	n/c	n/c	52	n/c	n/c
5.0	33	n/c	27	38	n/c	n/c	46	n/c	n/c

Wind Suction (psf): Panel: (Stress and Deflection)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
2.0	241	n/c	n/c	241	n/c	n/c	258	n/c	n/c
2.5	154	n/c	n/c	154	n/c	n/c	165	n/c	n/c

LAST REVISION

DATE: 03/11/15

BY: AAJ CHK: MDK

6.0.6



3.0	107	n/c	n/c	107	n/c	n/c	115	n/c	n/c
3.5	79	n/c	78	79	n/c	n/c	84	n/c	n/c
4.0	60	n/c	52	60	n/c	n/c	65	n/c	n/c
4.5	48	n/c	37	48	n/c	n/c	51	n/c	n/c
5.0	38	n/c	27	38	n/c	n/c	41	n/c	n/c

Wind Suction (psf): Fasteners: (Pull-out, Pull-Over, and Tensile Failure)

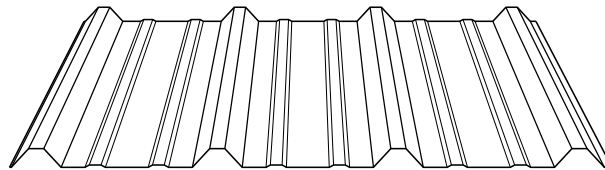
Span (Ft)	urlin hickne						
	0.060	0.067	0.075	0.089	0.099	0.105	0.120
2.0	105	105	105	105	105	105	105
2.5	84	84	84	84	84	84	84
3.0	70	70	70	70	70	70	70
3.5	60	60	60	60	60	60	60
4.0	53	53	53	53	53	53	53
4.5	47	47	47	47	47	47	47
5.0	42	42	42	42	42	42	42

n/c = value does not control (i.e. value is greater than controlling stress value)

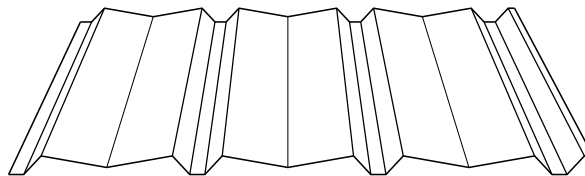
Contact the engineering team for capacities with different panel or fastener configurations.

VALLEY STEEL WALL SYSTEMS

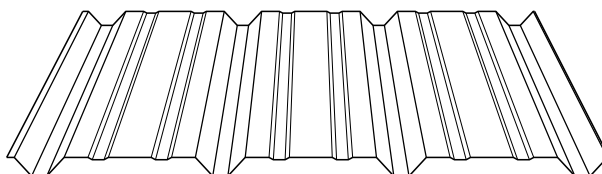
Valley Steel standard wall panels are available as components of one of Valley Steel Building Systems' Standard Wall Systems.



**36" Panel Coverage, 26 Gage,
Valley Steel "CLASSIC Wall"**



**36" Panel Coverage, 26 Gage,
Valley Steel "ACCENT Wall"**



**36" Panel Coverage, 26 Gage,
Valley Steel "REVERSE CLASSIC Wall"**

Information about the available panel finishes and erection details is available at the Valley Steel Building Systems website at the below link.

[Valley Steel Wall System Panels](#)

The following page outlines the span capacities for the Valley Steel standard wall panel

LAST REVISION

DATE: 03/11/15

BY: AAJ CHK: MDK

6.0.8



profiles.

LAST REVISION DATE: 03/11/15 BY: AAJ CHK: MDK

DETAIL NAME IF APPLICABLE

SH0030PE.DWG

VALLEY STEEL CLASSIC WALL™ PROPERTY AND SPAN TABLES

Valley Steel Classic Wall™ Panel - 26 Gage: Fy = 50 ksi									
Panel Material Information					Panel Properties per foot of panel width				
						Top in Compression		Bottom in Compression	
Panel Gage	Thickness (in.)	Yield (Ksi)	Tensile (Ksi)	Panel Wt. (Psf)	Ix (Gross) 4 (in)	Sx (eff.) 3 (in)	Ma (Kip-in.)	Sx (eff.) 3 (in)	Ma (Kip-in.)
26	0.0177	50	65	0.86	0.0493	0.040	1.2040	0.047	1.4017

Wind Pressure (psf): Panel: (Stress, Deflection, and Web Crippling)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
4.0	52	n/c	n/c	56	n/c	n/c	56	n/c	n/c
4.5	41	n/c	37	48	n/c	n/c	50	n/c	n/c
5.0	33	n/c	27	38	n/c	n/c	45	n/c	n/c
5.5	27	n/c	20	32	n/c	n/c	40	n/c	38
6.0	23	n/c	15	27	n/c	n/c	33	n/c	29
6.5	20	n/c	12	23	n/c	n/c	28	n/c	23
7.0	17	n/c	10	20	n/c	n/c	25	n/c	18

Wind Suction (psf): Panel: (Stress and Deflection)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
4.0	60	n/c	52	60	n/c	n/c	65	n/c	n/c
4.5	48	n/c	37	48	n/c	n/c	51	n/c	n/c
5.0	38	n/c	27	38	n/c	n/c	41	n/c	n/c
5.5	32	n/c	20	32	n/c	n/c	34	n/c	n/c
6.0	27	n/c	15	27	n/c	n/c	29	n/c	n/c
6.5	23	n/c	12	23	n/c	n/c	24	n/c	23

7.0	20	n/c	10	20	n/c	n/c	21	n/c	18
-----	----	-----	----	----	-----	-----	----	-----	----

Wind Suction (psf): Fasteners: (Pull-out, Pull-Over, and Tensile Failure)

Span (Ft)	Purlin ss Thickne						
	0.060	0.067	0.075	0.089	0.099	0.105	0.120
4.0	59	59	59	59	59	59	59
4.5	52	52	52	52	52	52	52
5.0	47	47	47	47	47	47	47
5.5	43	43	43	43	43	43	43
6.0	39	39	39	39	39	39	39
6.5	36	36	36	36	36	36	36
7.0	34	34	34	34	34	34	34

Contact the engineering team for capacities with different panel configurations.

VALLEY STEEL REVERSE CLASSIC WALL™ PROPERTY AND SPAN TABLES

Valley Steel Reverse Classic Wall™ Panel - 26 Gage: Fy = 50 ksi									
Panel Material Information					Panel Properties per foot of panel width				
					Ix (Gross) 4 (in)	Top in Compression		Bottom in Compression	
Panel Gage	Thickness (in.)	Yield (Ksi)	Tensile (Ksi)	Panel Wt. (Psf)		Sx (eff.) 3 (in)	Ma (Kip-in.)	Sx (eff.) 3 (in)	Ma (Kip-in.)
26	0.0177	50	65	0.86	0.0493	0.047	1.4017	0.040	1.2040

Wind Pressure (psf): Panel: (Stress, Deflection, and Web Crippling)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
4.0	60	n/c	52	56	n/c	n/c	56	n/c	n/c

LAST REVISION

DATE: 03/11/15
BY: AAJ CHK: MDK

6.0.10



4.5	48	n/c	37	48	n/c	n/c	50	n/c	n/c
5.0	38	n/c	27	38	n/c	n/c	41	n/c	n/c
5.5	32	n/c	20	32	n/c	n/c	34	n/c	n/c
6.0	27	n/c	15	27	n/c	n/c	29	n/c	n/c
6.5	23	n/c	12	23	n/c	n/c	24	n/c	23
7.0	20	n/c	10	20	n/c	n/c	21	n/c	18

Wind Suction (psf): Panel: (Stress and Deflection)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
4.0	52	n/c	n/c	60	n/c	n/c	75	n/c	n/c
4.5	41	n/c	37	48	n/c	n/c	59	n/c	n/c
5.0	33	n/c	27	38	n/c	n/c	48	n/c	n/c
5.5	27	n/c	20	32	n/c	n/c	40	n/c	38
6.0	23	n/c	15	27	n/c	n/c	33	n/c	29
6.5	20	n/c	12	23	n/c	n/c	28	n/c	23
7.0	17	n/c	10	20	n/c	n/c	25	n/c	18

Wind Suction (psf): Fasteners: (Pull-out, Pull-Over, and Tensile Failure)

Span (Ft)	Purlin Thickness						
	0.060	0.067	0.075	0.089	0.099	0.105	0.120
4.0	59	59	59	59	59	59	59
4.5	52	52	52	52	52	52	52
5.0	47	47	47	47	47	47	47
5.5	43	43	43	43	43	43	43
6.0	39	39	39	39	39	39	39
6.5	36	36	36	36	36	36	36
7.0	34	34	34	34	34	34	34

n/c = value does not control (i.e. value is greater than controlling stress value)

Contact the engineering team for capacities with different panel configurations.

LAST REVISION

DATE: 03/11/15

BY: AAJ CHK: MDK



PRODUCT & ENGINEERING MANUAL

LAST REVISION

DATE: 03/11/15
BY: AAJ CHK: MDK

6.0.12

VALLEY STEEL ACCENT WALL™ PROPERTY AND SPAN TABLES
Valley Steel Accent Wall™ Panel - 26 Gage: $F_y = 50$ ksi

Panel Material Information					Panel Properties per foot of panel width				
Panel Gage	Thickness (in.)	Yield (Ksi)	Tensile (Ksi)	Panel Wt. (Psf)	I_x (Gross) (in ⁴)	Top in Compression		Bottom in Compression	
						Sx (eff.) (in ³)	Ma (Kip-in.)	Sx (eff.) (in ³)	Ma (Kip-in.)
26	0.0177	50	65	0.86	0.0320	0.042	1.2633	0.036	1.0900

Wind Pressure (psf): Panel: (Stress, Deflection, and Web Crippling)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240
4.0	54	n/c	34	54	n/c	n/c	56	n/c	n/c
4.5	43	n/c	24	43	n/c	n/c	46	n/c	45
5.0	35	n/c	17	35	n/c	n/c	37	n/c	33
5.5	29	n/c	13	29	n/c	n/c	31	n/c	25
6.0	24	n/c	10	24	n/c	24	26	n/c	19
6.5	21	n/c	8	21	n/c	19	22	n/c	15
7.0	18	n/c	6	18	n/c	15	19	n/c	12

Wind Suction (psf): Panel: (Stress and Deflection)

Span (Ft)	Simple Span			2 Equal Spans			3 Equal Spans		
	Stress	Deflection		Stress	Deflection		Stress	Deflection	
		L/60	L/240		L/60	L/240		L/60	L/240

LAST REVISION

DATE: 03/11/15

BY: AAJ CHK: MDK

4.0	47	n/c	34	54	n/c	n/c	68	n/c	64
4.5	37	n/c	24	43	n/c	n/c	54	n/c	45
5.0	30	n/c	17	35	n/c	n/c	43	n/c	33
5.5	25	n/c	13	29	n/c	n/c	36	n/c	25
6.0	21	n/c	10	24	n/c	24	30	n/c	19
6.5	18	n/c	8	21	n/c	19	26	n/c	15
7.0	15	n/c	6	18	n/c	15	22	n/c	12

Wind Suction (psf): Fasteners: (Pull-out, Pull-Over, and Tensile Failure)

Span (Ft)	Purlin Thickness						
	0.060	0.067	0.075	0.089	0.099	0.105	0.120
4.0	59	59	59	59	59	59	59
4.5	52	52	52	52	52	52	52
5.0	47	47	47	47	47	47	47
5.5	43	43	43	43	43	43	43
6.0	39	39	39	39	39	39	39
6.5	36	36	36	36	36	36	36
7.0	34	34	34	34	34	34	34

n/c = value does not control (i.e. value is greater than controlling stress value)

Contact the engineering team for capacities with different panel configurations.

6.0.6

LAST REVISION

DATE: 03/11/15

BY: AAJ CHK: MDK