![DMI - Dimensional Metals, Inc.]

7.2 PANEL
WP72

36" — 7.2" — 2.1" — 2.1" — 1.5"

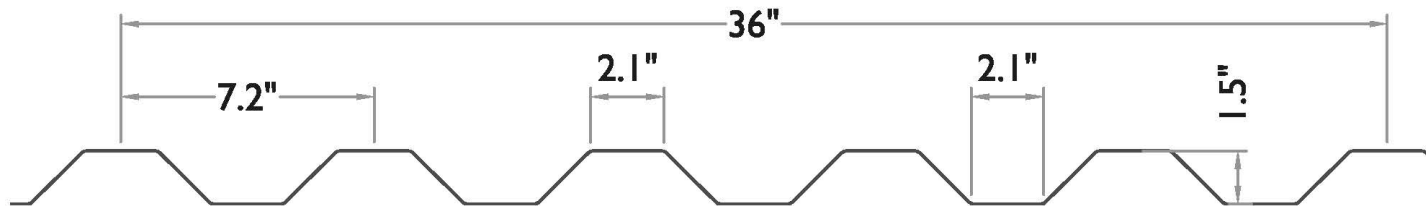## 180 Deflection

ALLOWABLE UNIFORM LOADS, psf (single span) - for wall applications only
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Bottom in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	610.0	271.1	139.3	71.3	41.3	26.0	17.4	12.2	620.0	275.6	143.4	73.4	42.5	26.8	17.9	12.6
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	755.0	335.6	174.8	89.5	51.8	32.6	21.9	15.4	785.0	348.9	176.2	90.2	52.2	32.9	22.0	15.5

ALLOWABLE UNIFORM LOADS, psf (two equal spans)
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Bottom in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	610.0	271.1	152.5	97.6	67.8	49.8	38.1	29.5	620.0	275.6	155.0	99.2	68.9	50.6	38.8	30.3
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	755.0	335.6	188.8	120.8	83.9	61.6	47.2	37.0	785.0	348.9	196.3	125.6	87.2	64.1	49.1	37.3

ALLOWABLE UNIFORM LOADS, psf (three equal spans)
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Bottom in Compression I_{xx} in⁴/ft.	$I_{xx (eff)}$ in⁴/ft.	S_{xx} in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	762.5	338.9	190.6	122.0	82.9	52.2	35.0	24.6	775.0	344.4	193.8	124.0	85.3	53.7	36.0	25.3
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	943.8	419.4	235.9	151.0	104.0	65.5	43.9	30.8	981.3	436.1	245.3	157.0	104.8	66.0	44.2	31.1

240 Deflection

ALLOWABLE UNIFORM LOADS, psf (single span) - for wall applications only
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Bottom in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	610.0	247.7	104.5	53.5	31.0	19.5	13.1	9.2	620.0	254.9	107.6	55.1	31.9	20.1	13.4	9.4
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	755.0	310.8	131.1	67.1	38.9	24.5	16.4	11.5	785.0	313.2	132.1	67.7	39.2	24.7	16.5	11.6

ALLOWABLE UNIFORM LOADS, psf (two equal spans)
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Bottom in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	610.0	271.1	152.5	97.6	67.8	47.0	31.5	22.1	620.0	275.6	155.0	99.2	68.9	48.3	32.4	22.7
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	755.0	355.6	188.8	120.8	83.9	58.9	39.5	27.7	785.0	348.9	196.3	125.6	87.2	59.4	39.8	27.9

ALLOWABLE UNIFORM LOADS, psf (three equal spans)
For various fastener spacings (i.e. span values)

Ga.	Width in.	Yield ksi	Weight psf	Top in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Bottom in Compression Ixx in⁴/ft.	Ixx (eff) in⁴/ft.	Sxx in³/ft	Inward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	Outward 2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.23	0.1000	0.1020	0.1220	0.1070	0.1050	0.1240	762.5	338.9	190.6	107.4	62.2	39.2	26.2	18.4	775.0	344.4	193.8	110.6	64.0	40.3	27.0	19.0
22	36	50	1.46	0.1270	0.1280	0.1510	0.1300	0.1290	0.1570	943.8	419.4	235.9	134.8	78.0	49.1	32.9	23.1	981.3	436.1	245.3	135.9	78.6	49.5	33.2	23.3

NOTES:

1. Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member.
   Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable
   load considers a 3 or more equal span condition.
3. Allowable load does not address web crippling, fasteners, connection strength or support material.
4. Panel weight is not considered.
5. Load/Span values are based on theoretical computations and not load testing.
6. Deflection consideration is limited by a maximum deflection ratio of L/180 or L/240 of span.
7. Allowable loads do not include a 1/3 stress increase for wind.