Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Classic Series Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution



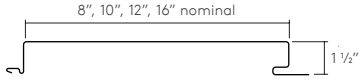
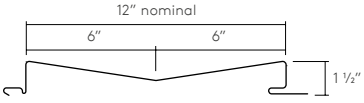
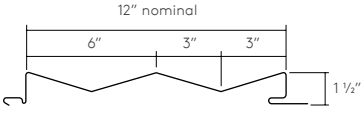
PLANET PASSIONATE

Morin® By Kingspan

Product Data

Morin Classic Series Range

With a common side joint the designer can mix and match panel profiles throughout the facade creating the exact desired effect. Panels maybe installed vertically, horizontally, or in combination.

Profile Options
Classic F Series 
Classic W-12 
Classic Z-12 



Applications

Weather-resistant or rainscreen rear-ventillated applications. These panels feature a concealed fastener and can be installed horizontally or vertically for new or retrofit applications.

Available Lengths

Standard Lengths (ft)	5′ – 30′ (1.52 – 9.14m)

Shorter and longer lengths available on request.

Load / Span Data

Galvalume

Panel Type	Panel Width (in.)	Panel Thickness (ga.)	Deflection Limit	Clip Type	Allowable Uplift Pressures (psf), Panel Span (ft.)									
					1.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
A-12	12	24*	L/180	Continuous Negative Pressure Clip	14.4	13.7	13.4	13.0	12.7	12.3	12.0	11.6	11.3	10.9
	12	22			55.3	49.5	46.6	43.7	40.8	37.9	35.0	32.1	29.2	26.3
	12	20*			96.2	85.3	79.8	74.4	68.9	63.4	58.0	52.5	47.1	41.6
AA-12	12	22			53.0	48.3	46.0	43.7	41.4	39.0	36.7	34.4	32.1	29.7
		20*			81.7	74.1	70.3	66.6	62.8	59.0	55.2	51.4	47.6	43.8
F-12	12	24*			–	55.3	52.4	49.5	46.6	43.7	40.9	38.0	35.1	32.2
		22*			–	120.0	107.5	95.0	82.5	70.0	57.5	45.0	32.5	20.0
		20*			–	117.0	109.7	102.3	94.9	87.6	80.2	72.8	65.5	58.1
N-12	12	24*			78.5	67.3	61.7	56.2	50.6	45.0	39.4	33.8	28.2	22.6
		22			97.2	85.6	79.9	74.1	68.3	62.6	56.8	51.0	45.3	39.5
		20*			115.8	103.9	98.0	92.1	86.1	80.2	74.2	68.3	62.3	56.4
TT-12	12	18*			53.5	48.9	46.7	44.5	42.2	40.0	37.8	35.6	33.4	31.2
W-12	12	24*			74.0	63.4	58.1	52.8	47.5	42.2	36.9	31.6	26.3	21.1
	12	22			85.8	75.4	70.2	65.0	59.8	54.7	49.5	44.3	39.1	33.9
	12	20*			97.6	87.4	82.3	77.3	72.2	67.1	62.0	57.0	51.9	46.8
Z-12	12	24*			57.5	54.1	52.4	50.7	49.0	47.3	45.6	43.9	42.2	40.6
	12	22			83.7	76.5	72.9	69.2	65.6	62.0	58.3	54.7	51.1	47.5
	12	20*			110.0	98.9	93.3	87.8	82.2	76.6	71.1	65.5	59.9	54.4

Notes:

1 Values shown are uniformly distributed negative loads for multiple span conditions (≥3 spans).
2 Values do not include consideration of sub-framing or fasteners, to be determined by qualified personnel.
3 All pressures values reflect safety factor of 2.0 (Ultimate load/2.0).
4 Ultimate loads determined from ASTM E1592 testing which is limited to the assembly of metal panel, negative pressure clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of Continuous Negative Pressure clip (steel material, unless noted otherwise).
6 * Indicates tested material (all other values are interpolated).
7 Galvalume material confirming to ASTM A792.
8 For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Aluminum

Panel Type	Panel Width (in.)	Panel Thickness (in.)	Deflection Limit	Clip Type	Allowable Uplift Pressures (psf), Panel Span (ft.)									
					1.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
A-12	12	0.040*	L/180	Continuous Negative Pressure Clip	32.7	30.3	29.1	28.0	26.8	25.6	24.4	23.2	22.0	20.8
AA-12	12	0.040*			40.7	36.0	33.6	31.2	28.8	26.4	24.1	21.7	19.3	16.9
F-12	12	0.032*			–	52.8	51.0	49.2	47.4	45.6	43.8	42.1	40.3	38.5
		0.040			–	55.0	52.8	50.7	48.6	46.4	44.3	42.2	40.1	37.9
N-12	12	0.040*			38.1	35.2	33.7	32.3	30.8	29.3	27.9	26.4	24.9	23.5
T-12	12	0.040*			44.3	42.8	42.1	41.4	40.6	39.9	39.1	38.4	37.6	36.9
TT-12	12	0.040*			61.3	54.3	50.8	47.3	43.8	40.3	36.8	33.3	29.8	26.3
W-12	12	0.040*			103.8	89.3	82.1	74.9	67.7	60.5	53.3	46.0	38.8	31.6
Z-12	12	0.040*			83.8	73.1	67.8	62.5	57.1	51.8	46.4	41.1	35.7	30.4

Notes:

1 Values shown are uniformly distributed negative loads for multiple span conditions (≥3 spans).
2 Values do not include consideration of sub-framing or fasteners, to be determined by qualified personnel.
3 All pressures values reflect safety factor of 2.0 (Ultimate load/2.0).
4 Ultimate loads determined from ASTM E1592 testing which is limited to the assembly of metal panel, negative pressure clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of Continuous Negative Pressure clip (steel material, unless noted otherwise).
6 * Indicates tested material (all other values are interpolated).
7 Aluminum material confirming to 3003-H14; reach out to Morin technical for anodized (5005-H34) or any other Aluminum material.
8 For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Load / Span Data

Aluminum

Panel Type	Panel Width (in.)	Panel Thickness (in.)	Deflection Limit	Clip Type	Allowable Uplift Pressures (psf), Panel Span (ft.)									
					1.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
A-12	12	0.050*	L/180	Individual Negative Pressure Clip	24.0	21.6	20.4	19.3	18.1	16.9	15.7	14.5	13.3	12.2
F-12	12	0.050*			–	25.7	23.9	22.2	20.4	18.6	16.8	15.0	13.2	11.5
F-16	12	0.050*			–	–	–	35.0	–	–	–	–	–	–
T-12	12	0.040*			44.3	42.8	42.1	41.4	40.6	39.9	39.1	38.4	37.6	36.9
TT-12	12	0.040*			61.3	54.3	50.8	47.3	43.8	40.3	36.8	33.3	29.8	26.3
W-12	12	0.040*			45.9	39.9	36.8	33.8	30.8	27.7	24.7	21.7	18.6	15.6
	12	0.050*			38.8	36.4	35.2	34.1	32.9	31.7	30.5	29.3	28.1	26.9
Z-12	12	0.040*			43.6	41.1	39.8	38.6	37.3	36.0	34.8	33.5	32.3	31.0

Notes:

1 Values shown are uniformly distributed negative loads for multiple span conditions (≥3 spans).
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3 All pressures values reflect safety factor of 2.0 (Ultimate load/2.0).
4 Ultimate loads determined from ASTM E1592 testing which is limited to the assembly of metal panel, negative pressure clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of Individual Negative Pressure clip (steel material, unless noted otherwise).
6 * Indicates tested material (all other values are interpolated).
7 Aluminum material confirming to 3003-H14; reach out to Morin technical for anodized (5005-H34) or any other Aluminum material.
8 For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Galvalume

Panel Type	Panel Width (in.)	Panel Thickness (ga.)	Deflection Limit	Clip Type	Allowable Uplift Pressures (psf), Panel Span (ft.)									
					1.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
A-12	12	22*	L/180	Individual Negative Pressure Clip	15.8	15.4	15.1	14.9	14.7	14.4	14.2	14.0	13.7	13.5
	12	20			26.3	24.7	23.8	23.0	22.2	21.3	20.5	19.7	18.8	18.0
	12	18*			37.0	34.1	32.7	31.2	29.8	28.3	26.9	25.4	24.0	22.5
AA-12	12	22*			40.3	34.5	31.6	28.7	25.8	22.8	19.9	17.0	14.0	11.2
F-12	12	22*			10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
	12	20			23.6	23.6	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.4
	12	18*			36.6	36.5	36.5	36.4	36.4	36.3	36.3	36.2	36.2	36.1
F-16	12	18*			24.3	22.5	21.7	20.8	19.9	19.1	18.2	17.3	–	–
N-12	12	22*			44.3	40.5	38.6	36.7	34.7	32.8	30.9	29.0	27.1	25.2
	12	20			56.3	51.2	48.6	46.1	43.5	40.9	38.4	35.8	33.3	30.7
	12	18*			80.2	72.5	68.6	64.8	60.9	57.0	53.2	49.3	45.5	41.6
TT-12	12	18*			53.3	48.9	46.7	44.5	42.2	40.0	37.8	35.6	33.4	31.2
W-12	12	22*			18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
	12	20			39.7	35.9	34.0	32.1	30.3	28.4	26.5	24.6	22.7	20.8
	12	18*			82.3	71.1	65.4	59.8	54.2	48.5	42.9	37.3	31.6	26.0
Z-12	12	20*			36.1	34.2	33.2	32.3	31.3	30.3	29.4	28.4	27.4	26.5
	12	18*			48.3	46.6	45.4	44.5	43.5	42.6	41.6	40.7	39.7	38.8

Notes:

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