

Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Matrix Series™ Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution

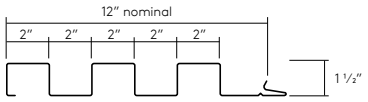
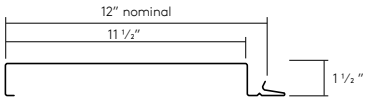
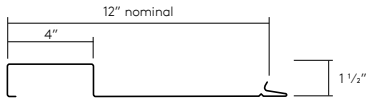
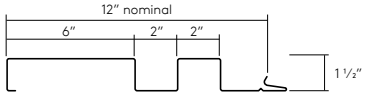
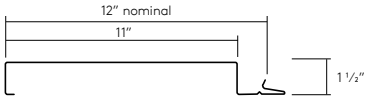
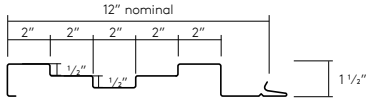
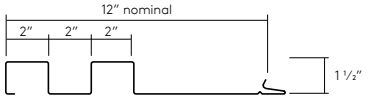
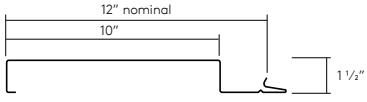
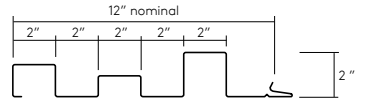
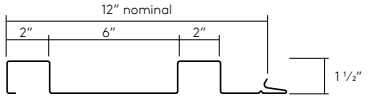
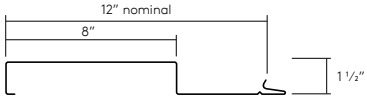
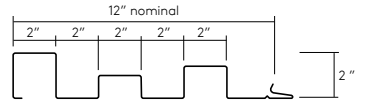
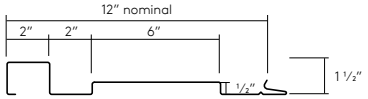
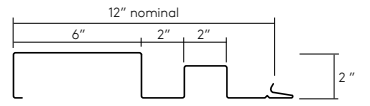
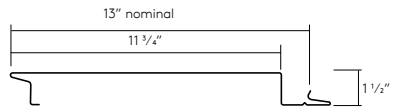
PLANET PASSIONATE

Morin® By Kingspan

Product Data

Morin Matrix Series™ Range

The Morin Matrix Series™ is available in sixteen unique panel profiles and MiterSeam corners, the designer has all the tools necessary to create the next award winning project.

Profile Options		
Matrix MX-1 	**Matrix MX-6** 	**Matrix MX-11** 
Matrix MX-2 	**Matrix MX-7** 	**Matrix MX-12** 
Matrix MX-3 	**Matrix MX-8** 	**Matrix MX-13** 
Matrix MX-4 	**Matrix MX-9** 	**Matrix MX-14** 
Matrix MX-5 	**Matrix MX-10** 	**Matrix MX-15** 
Matrix MX-0 		



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 (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
MX-0	12	22*	L/180	MIP Clip	85.0	73.7	68.1	62.5	56.8	51.2	45.5	39.9	34.2	28.6
		20			94.2	81.7	75.5	69.3	63.1	56.9	50.7	44.5	38.3	32.1
		18*			112.3	97.6	90.3	83.0	75.7	68.3	61.0	53.7	46.3	39.0
MX-1		24*			84.8	69.2	61.4	53.6	45.8	38.0	30.2	22.4	14.6	6.8
		22*			119.5	96.4	84.9	73.4	61.9	50.4	38.9	27.3	15.8	4.3
		20*			123.6	102.2	91.4	80.7	70.0	59.2	48.5	37.8	27.0	16.3
		18*			89.4	79.9	75.2	70.5	65.7	61.0	56.3	51.5	46.8	42.1
MX-2		24*			66.0	58.0	54.0	50.0	46.0	42.0	38.0	34.0	30.0	26.0
		22			90.0	78.2	72.3	66.5	60.6	54.7	48.8	43.0	37.1	31.2
		20*			113.9	98.4	90.7	82.9	75.2	67.4	59.7	51.9	44.2	36.4
		18			137.9	118.6	109.0	99.4	89.7	80.1	70.5	60.9	51.2	41.6
MX-3		24*			66.9	57.7	53.1	48.5	43.9	39.2	34.6	30.0	25.4	20.8
		22			86.4	74.8	69.0	63.3	57.5	51.7	45.9	40.2	34.4	28.6
		20*			105.8	91.9	85.0	78.1	71.1	64.2	57.2	50.3	43.4	36.4
		18*			109.6	97.1	90.8	84.5	78.2	71.9	65.7	59.4	53.1	46.8
MX-4		24*			69.9	59.9	54.9	49.9	44.9	39.9	35.0	30.0	25.0	20.0
		22			95.3	80.3	72.8	65.2	57.7	50.1	42.6	35.0	29.2	24.1
		20*			93.1	79.5	72.8	66.0	59.2	52.5	45.7	39.0	33.3	28.2
		18*			86.7	78.4	74.3	70.2	66.1	62.0	57.9	53.7	49.6	45.5
MX-5		24*			84.4	72.4	66.3	60.3	54.3	48.3	42.2	36.2	30.2	24.2
		22			97.4	84.0	77.2	70.5	63.8	57.0	50.3	43.6	36.9	30.1
		20			110.4	95.6	88.1	80.7	73.3	65.8	58.4	51.0	43.6	36.1
		18*			136.3	118.6	109.8	101.0	92.1	83.3	74.5	65.7	56.8	48.0
MX-6		22			94.6	81.6	75.1	68.6	62.2	55.7	49.2	42.7	36.2	29.7
		20			102.6	88.7	81.8	74.8	67.9	60.9	54.0	47.1	40.1	33.2
		18*			118.5	102.8	94.9	87.1	79.3	71.4	63.6	55.7	47.9	40.1
MX-7		22			79.6	69.6	64.5	59.5	54.5	49.5	44.4	39.4	34.4	29.4
		20			87.0	76.3	71.0	65.6	60.3	55.0	49.6	44.3	39.0	33.6
		18*			101.5	89.6	83.7	77.8	71.8	65.9	59.9	54.0	48.0	42.1

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, MIP clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of MIP Clip (steel material, unless noted otherwise) with minimum 2 fasteners.
6 * Indicates tested material (all other values are interpolated).
7 Galvalume material confirming to ASTM A792.
8 Please refer to Morin website for span charts pertaining to perforated panels.
9 For project specific calculations, please contact Morin Technical Services at 800-640-9501

Galvalume (continued)

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
MX-8	12	22	L/180	MIP Clip	80.9	70.4	65.2	60.0	54.7	49.5	44.3	39.1	33.8	28.6
		20			82.9	72.6	67.4	62.2	57.1	51.9	46.7	41.6	36.4	31.2
		18*			86.9	76.8	71.8	66.7	61.7	56.6	51.6	46.5	41.5	36.4
MX-9		22			93.7	80.7	74.2	67.8	61.3	54.8	48.3	41.8	35.3	28.9
		20			101.9	87.8	80.8	73.7	66.7	59.6	52.6	45.6	38.5	31.5
		18*			118.2	101.9	93.7	85.6	77.4	69.3	61.1	53.0	44.8	36.7
MX-10		22*			103.2	87.1	79.1	71.1	63.1	55.1	47.1	39.0	31.0	23.0
		20			108.8	93.8	86.3	78.7	71.2	63.7	56.2	48.6	41.1	33.6
		18*			120.0	106.9	100.4	93.9	87.3	80.8	74.2	67.7	61.1	54.6
MX-11		22			86.3	74.3	68.4	62.4	56.5	50.5	44.5	38.6	32.6	26.7
		20			92.8	80.2	73.9	67.6	61.4	55.1	48.8	42.5	36.2	29.9
		18*			105.7	91.9	84.9	78.0	71.1	64.1	57.2	50.3	43.3	36.4
MX-12		24*			98.3	86.0	79.9	73.8	67.7	61.6	55.5	49.3	43.2	37.1
		22			113.3	98.4	91.0	83.6	76.1	68.7	61.3	53.8	46.4	39.0
		20			128.3	110.8	102.1	93.3	84.6	75.8	67.1	58.3	49.6	40.8
		18*			158.1	135.4	124.0	112.7	101.3	90.0	78.6	67.3	55.9	44.6
MX-13		24*			64.1	55.5	51.1	46.8	42.5	38.1	33.8	29.5	25.1	20.8
		22			74.6	65.4	60.7	56.1	51.5	46.9	42.3	37.7	33.0	28.4
		20			85.0	75.2	70.4	65.5	60.6	55.7	50.8	45.9	41.0	36.1
		18*			105.8	94.9	89.4	84.0	78.5	73.0	67.6	62.1	56.7	51.2
MX-14		24*			50.4	44.5	41.5	38.6	35.6	32.6	29.7	26.7	23.8	20.8
		22			62.7	54.9	51.1	47.2	43.4	39.5	35.7	31.8	27.9	24.1
		20			74.9	65.4	60.7	55.9	51.1	46.4	41.6	36.9	32.1	27.3
		18*			99.3	86.2	79.7	73.1	66.6	60.0	53.5	46.9	40.4	33.8
MX-15		24*			70.1	60.6	55.9	51.2	46.5	41.8	37.1	32.3	27.6	22.9
		22			82.1	71.6	66.3	61.0	55.7	50.4	45.1	39.9	34.6	29.3
		20			94.2	82.5	76.6	70.8	64.9	59.1	53.2	47.4	41.5	35.7
		18*			118.1	104.1	97.2	90.2	83.2	76.3	69.3	62.3	55.4	48.4

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, MIP clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of MIP Clip (steel material, unless noted otherwise) with minimum 2 fasteners.
6 * Indicates tested material (all other values are interpolated).
7 Galvalume material confirming to ASTM A792.
8 Please refer to Morin website for span charts pertaining to perforated panels.
9 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
MX-0	12	0.040*	L/180	MIP Clip	70.7	52.9	49.9	46.9	43.8	40.8	37.7	34.7	31.6	28.6
		0.050*			79.6	71.0	66.7	62.4	58.1	53.8	49.5	45.2	40.9	36.6
MX-1		0.032*			72.8	58.9	52.0	45.1	38.2	31.3	24.4	17.4	10.5	3.6
		0.040*			116.3	94.7	83.8	73.0	62.2	51.3	40.5	29.7	18.8	8.0
		0.050*			87.9	79.7	75.6	71.5	67.4	63.3	59.2	55.1	51.0	47.0
MX-2		0.032*			65.3	57.6	53.8	49.9	46.1	42.2	38.4	34.5	30.7	26.8
		0.040			81.2	71.0	65.8	60.7	55.6	50.4	45.3	40.2	35.0	29.9
		0.050*			101.0	87.5	80.8	74.1	67.4	60.7	54.0	47.2	40.5	33.8
MX-3		0.032*			64.1	55.5	51.1	46.8	42.5	38.1	33.8	29.5	25.1	20.8
		0.040			72.3	62.4	57.5	52.6	47.7	42.8	37.9	32.9	28.0	23.1
		0.050*			82.3	71.1	65.4	59.8	54.2	48.5	42.9	37.3	31.6	26.0
MX-4		0.032*			43.9	39.0	36.5	34.1	31.6	29.2	26.7	24.3	21.8	19.4
		0.040*			75.7	63.4	57.3	51.1	45.0	38.8	32.7	26.5	20.4	14.2
		0.050*			95.9	83.1	76.7	70.2	63.8	57.4	51.0	44.6	38.2	31.7
MX-5		0.032*			75.1	64.8	59.7	54.5	49.3	44.2	39.0	33.9	28.7	23.6
		0.040			90.9	78.2	71.9	65.5	59.2	52.9	46.5	40.2	33.9	27.5
		0.050*			110.5	94.9	87.1	79.3	71.5	63.7	55.9	48.1	40.3	32.5
MX-6		0.040*			79.7	71.1	66.7	62.4	58.1	53.7	49.4	45.1	40.7	36.4
		0.050*			88.2	78.0	73.0	67.9	62.8	57.8	52.7	47.6	42.6	37.5
MX-7		0.040			101.4	86.5	79.1	71.6	64.2	56.7	49.2	41.8	34.3	26.9
		0.050*			117.7	100.4	91.7	83.1	74.4	65.8	57.2	48.5	39.9	31.2

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, MIP clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of MIP Clip (steel material, unless noted otherwise) with minimum 2 fasteners.
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 Please refer to Morin website for span charts pertaining to perforated panels.
9 For project specific calculations, please contact Morin Technical Services at 800-640-9501.

Aluminum (continued)

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
MX-8	12	0.040	L/180	MIP Clip	85.5	74.3	68.6	63.0	57.3	51.7	46.1	40.4	34.8	29.2
		0.050*			95.0	83.9	78.4	72.8	67.3	61.8	56.2	50.7	45.2	39.6
MX-9		0.040			78.3	68.0	62.8	57.7	52.5	47.4	42.2	37.1	32.0	26.8
		0.050*			98.5	85.7	79.3	72.8	66.4	60.0	53.6	47.1	40.7	34.3
MX-10		0.040*			82.6	71.3	65.6	60.0	54.3	48.6	43.0	37.3	31.7	26.0
		0.050*			70.8	64.1	60.8	57.5	54.1	50.8	47.5	44.1	40.8	37.5
MX-11		0.040			71.7	62.4	57.8	53.2	48.5	43.9	39.3	34.7	30.0	25.4
		0.050*			91.9	79.7	73.7	67.6	61.5	55.5	49.4	43.3	37.3	31.2
MX-12		0.032*			70.0	60.3	55.4	50.6	45.7	40.8	36.0	31.1	26.2	21.4
		0.040			99.6	86.2	79.5	72.8	66.1	59.4	52.7	45.9	39.2	32.5
		0.050*			136.6	118.6	109.6	100.6	91.5	82.5	73.5	64.5	55.5	46.5
MX-13		0.032*			48.5	42.5	39.4	36.4	33.4	30.3	27.3	24.3	21.2	18.2
		0.040			67.8	59.1	54.7	50.3	45.9	41.5	37.1	32.7	28.4	24.0
		0.050*			92.0	79.8	73.7	67.7	61.6	55.5	49.4	43.4	37.3	31.2
MX-14		0.032*			34.4	31.5	30.1	28.6	27.1	25.7	24.2	22.8	21.3	19.9
		0.040			46.5	42.2	40.0	37.9	35.7	33.5	31.4	29.2	27.1	24.9
		0.050*			61.6	55.5	52.5	49.5	46.4	43.4	40.3	37.3	34.2	31.2
MX-15		0.032*			41.5	36.8	34.4	32.0	29.6	27.2	24.9	22.5	20.1	17.7
		0.040			71.2	62.2	57.8	53.3	48.8	44.4	39.9	35.4	30.9	26.5
		0.050*			108.2	94.1	87.0	79.9	72.8	65.8	58.7	51.6	44.5	37.5

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, MIP clip and fasteners system, does not include – flashing, sealants, sub-framing, metal studs, & insulation.
5 Requires use of MIP Clip (steel material, unless noted otherwise) with minimum 2 fasteners.
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 Please refer to Morin website for span charts pertaining to perforated panels.
9 For project specific calculations, please contact Morin Technical Services at 800-640-9501.

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