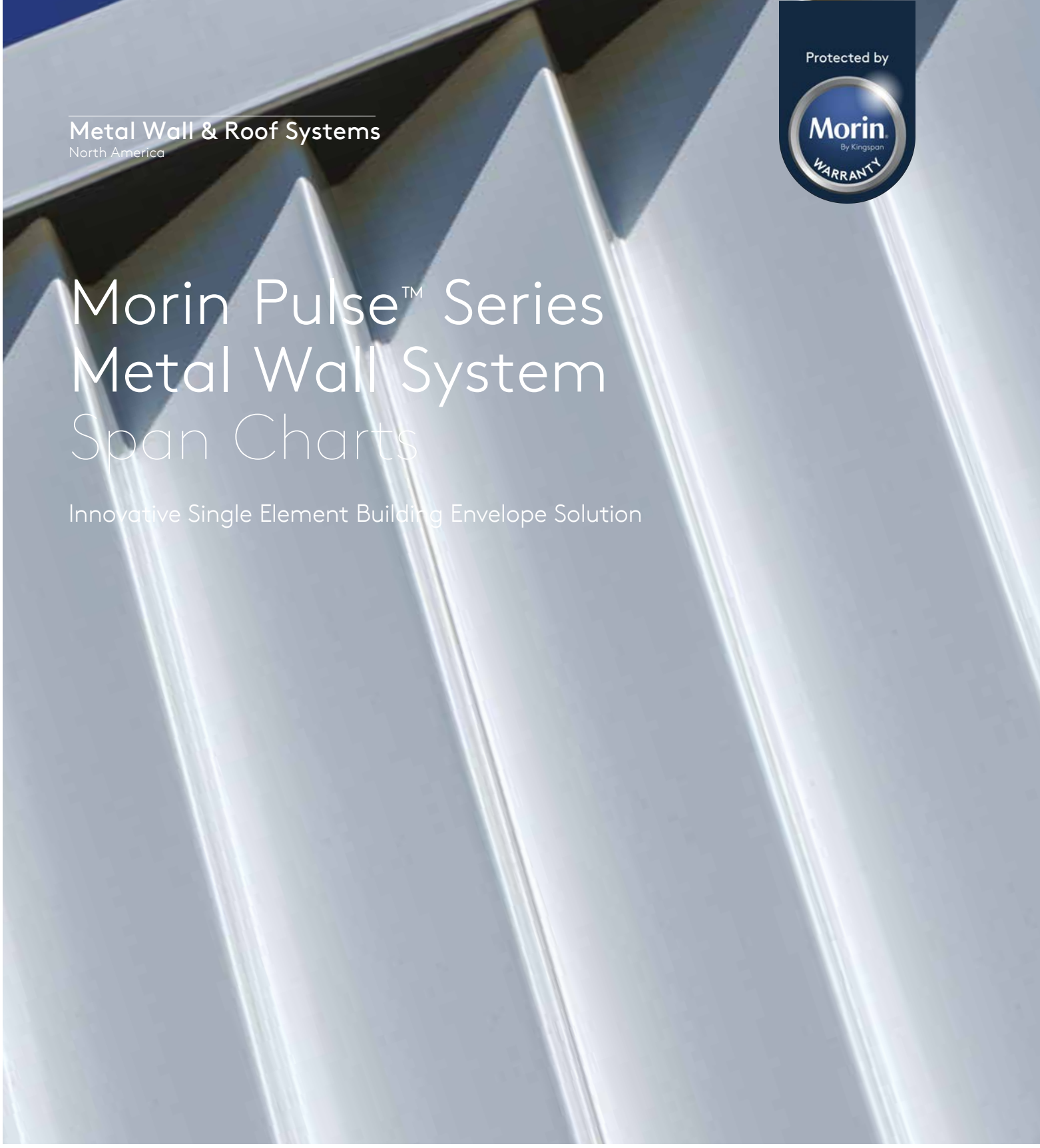


Metal Wall & Roof Systems
North America

Protected by Morin By Kingspan WARRANTY

Morin Pulse™ Series Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution

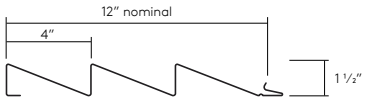
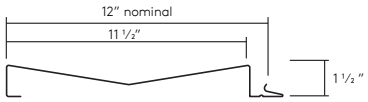
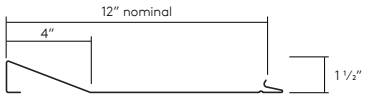
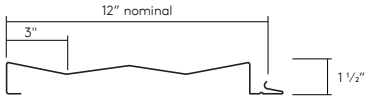
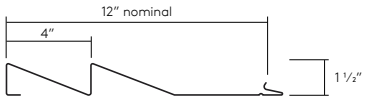
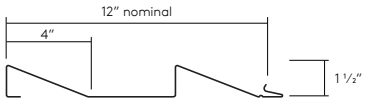
PLANET PASSIONATE

Morin® By Kingspan

Product Data

Morin Pulse™ Series Range

The Morin Pulse™ Series offers seven unique profiles featuring triangular ribs that emulate the electrical peaks generated by a heartbeat. The panels can be installed horizontally and/or vertically for different visual effects.

Profile Options	
Pulse P-1 	**Pulse P-9** 
Pulse P-2 	**Pulse P-10** 
Pulse P-3 	**Pulse P-11** 
Pulse P-4 	



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
P-1	12	24*	L/180	MIP Clip	77.4	66.1	60.5	54.9	49.2	43.6	38.0	32.3	26.7	21.1
		22			91.2	78.6	72.3	66.0	59.7	53.5	47.2	40.9	34.6	28.3
		20			105.0	91.1	84.2	77.2	70.3	63.3	56.4	49.4	42.5	35.5
		18*			118.8	103.6	96.0	88.4	80.8	73.2	65.6	58.0	50.4	42.8
P-2		24*			79.1	67.9	62.3	56.7	51.1	45.5	39.9	34.3	28.7	23.2
		22			86.0	74.5	68.7	63.0	57.2	51.4	45.7	39.9	34.1	28.4
		20			93.0	81.1	75.1	69.2	63.3	57.3	51.4	45.4	39.5	33.6
		18*			99.9	87.7	81.6	75.5	69.3	63.2	57.1	51.0	44.9	38.8
P-3		24*			55.3	51.1	48.9	46.8	44.7	42.6	40.4	38.3	36.2	34.1
		22			74.4	67.7	64.3	60.9	57.5	54.2	50.8	47.4	44.0	40.7
		20			93.5	84.3	79.6	75.0	70.4	65.7	61.1	56.5	51.8	47.2
		18*			112.6	100.9	95.0	89.1	83.2	77.3	71.5	65.6	59.7	53.8
P-4		24*			61.5	53.9	50.1	46.3	42.4	38.6	34.8	31.0	27.2	23.4
		22			72.1	63.2	58.7	54.3	49.8	45.4	40.9	36.5	32.0	27.6
		20			82.5	72.4	67.3	62.2	57.1	52.1	47.0	41.9	36.8	31.8
		18*			93.1	81.6	75.9	70.2	64.5	58.8	53.1	47.3	41.6	35.9
P-9		24*			71.5	62.4	57.9	53.3	48.8	44.2	39.7	35.1	30.6	26.0
		22			82.9	72.4	67.2	62.0	56.7	51.5	46.3	41.1	35.8	30.6
		20			94.3	82.4	76.5	70.6	64.7	58.8	52.9	47.0	41.1	35.2
		18*			105.6	92.5	85.9	79.3	72.7	66.1	59.6	53.0	46.4	39.8
P-10		24*			88.8	75.4	68.6	61.9	55.2	48.4	41.7	35.0	28.2	21.5
		22			103.9	88.8	81.2	73.7	66.1	58.6	51.0	43.4	35.9	28.3
		20			119.0	102.2	93.8	85.4	77.1	68.7	60.3	51.9	43.5	35.2
		18*			148.9	128.8	118.8	108.8	98.8	88.8	78.8	68.7	58.7	48.7
P-11		24*			58.6	52.8	50.0	47.1	44.2	41.4	38.5	35.6	32.8	29.9
		22			77.3	68.7	64.3	60.0	55.6	51.3	46.9	42.6	38.2	33.9
		20			96.1	84.5	78.7	72.8	67.0	61.2	55.4	49.5	43.7	37.9
		18*			133.4	115.9	107.1	98.4	89.6	80.8	72.1	63.3	54.6	45.8

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
P-1	12	0.032*	L/180	MIP Clip	68.0	58.7	54.1	49.4	44.7	40.1	35.4	30.8	26.1	21.5
		0.040			84.1	73.3	68.0	62.6	57.2	51.9	46.5	41.1	35.8	30.4
		0.050*			104.0	91.5	85.3	79.1	72.8	66.6	60.3	54.1	47.8	41.6
P-2		0.032*			45.5	38.5	35.0	31.5	27.9	24.4	20.9	17.4	13.9	10.4
		0.040*			91.9	79.7	73.7	67.6	61.5	55.5	49.4	43.3	37.3	31.2
		0.050*			97.4	83.7	76.8	69.9	63.0	56.1	49.3	42.4	35.5	28.6
P-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			75.1	65.7	61.0	56.3	51.5	46.8	42.1	37.4	32.7	28.0
		0.050*			88.9	78.5	73.3	68.1	62.9	57.7	52.5	47.3	42.1	36.9
P-4		0.032*			55.5	48.5	45.1	41.6	38.1	34.7	31.2	27.7	24.3	20.8
		0.040			72.4	63.9	59.8	55.5	51.2	47.0	42.8	38.5	34.3	30.0
		0.050*			93.6	83.2	78.0	72.8	67.6	62.4	57.2	52.0	46.8	41.6
P-9		0.032			64.1	55.2	50.8	46.3	41.9	37.4	33.0	28.5	24.1	19.7
		0.040*			79.5	68.8	63.4	58.1	52.8	47.4	42.1	36.7	31.4	26.0
		0.050*			98.7	85.7	79.3	72.8	66.3	59.9	53.4	46.9	40.4	34.0
P-10		0.032*			57.8	49.8	45.8	41.8	37.8	33.8	29.8	25.8	21.8	17.8
		0.040			68.5	59.7	55.3	50.9	46.5	42.1	37.7	33.3	28.9	24.5
		0.050*			82.0	72.2	67.3	62.4	57.4	52.5	47.6	42.7	37.8	32.9
P-11		0.032*			47.9	42.5	39.8	37.2	34.5	31.8	29.1	26.5	23.8	21.1
		0.040			56.2	49.5	46.1	42.8	39.4	36.1	32.7	29.3	26.0	22.6
		0.050*			89.3	78.7	73.5	68.2	62.9	57.7	52.4	47.1	41.9	36.6

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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Morin® By Kingspan

April 24, 2026