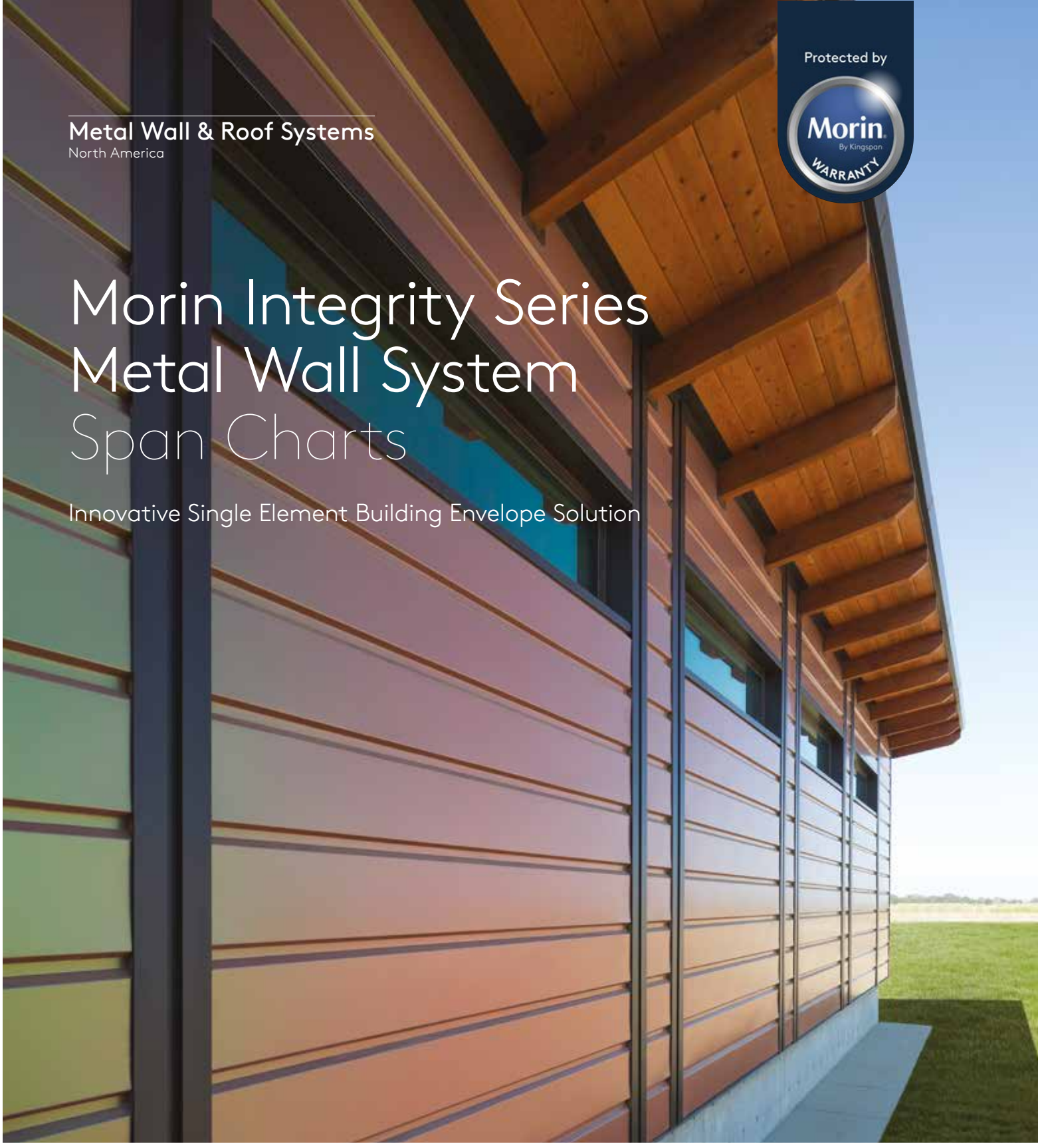


Metal Wall & Roof Systems
North America

Morin Integrity Series Metal Wall System Span Charts

Innovative Single Element Building Envelope Solution

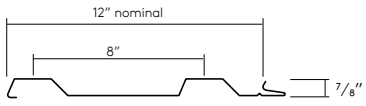
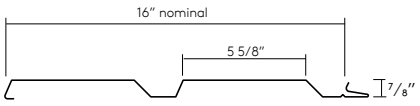
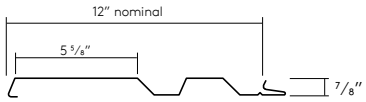
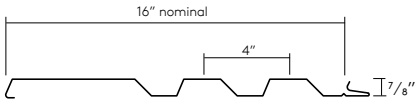
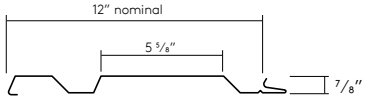
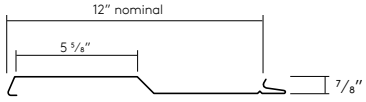
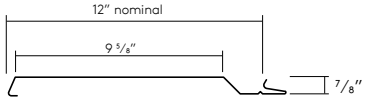
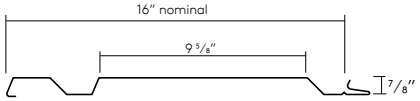
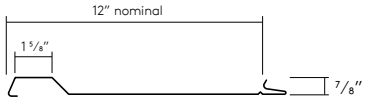
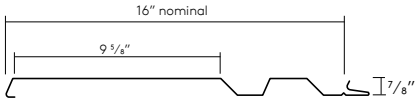
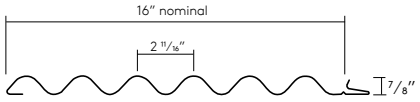
PLANET PASSIONATE

Morin®
By Kingspan

Product Data

Morin Integrity Series Range

The Morin Integrity Series is a concealed fastener rainscreen/wall panel system. With a consistent depth of 7/8", it offers a minimalist design solution. Integrity Series offers fifteen unique profiles featuring an asymmetrical box rib in varying configuration.

Profile Options		
Integrity X-12 	**Integrity XE-12** 	**Integrity XAB-16** 
Integrity XA-12 	**Integrity XF-12** 	**Integrity XAAB-16** 
Integrity XB-12 	**Integrity XG-12** 	**Integrity XABB-16** 
Integrity XC-12 	**Integrity X-16** 	**Integrity XB-16** 
Integrity XD-12 	**Integrity XA-16** 	**Integrity S-16** 



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
X-12	12	24*	L/180	MIP Clip	131.4	106.6	94.2	81.8	69.4	57.0	44.6	32.2	19.8	7.4
		22			141.5	115.6	102.6	89.7	76.7	63.8	50.8	37.8	24.9	11.9
		20			151.6	124.6	111.1	97.6	84.0	70.5	57.0	43.5	30.0	16.4
		18*			171.7	142.5	127.8	113.2	98.6	83.9	69.3	54.7	40.0	25.4
X-16	16	24*			86.2	71.4	64.0	56.6	49.2	41.7	34.3	26.9	19.5	12.1
		22			93.8	77.8	69.8	61.7	53.7	45.7	37.7	29.7	21.7	13.7
		20			101.4	84.2	75.5	66.9	58.3	49.7	41.1	32.5	23.9	15.2
		18*			116.4	96.8	87.0	77.2	67.4	57.6	47.8	38.0	28.2	18.4
XA-12	12	24*			69.4	60.7	56.4	52.0	47.7	43.4	39.0	34.7	30.4	26.0
		22			88.0	77.2	71.8	66.3	60.9	55.5	50.1	44.7	39.2	33.8
		20*			106.7	93.7	87.2	80.6	74.1	67.6	61.1	54.6	48.1	41.6
		18			111.1	100.3	94.9	89.5	84.1	78.7	73.3	67.9	62.5	57.1
XA-16	16	24*			49.6	43.0	39.8	36.5	33.2	30.0	26.7	23.1	20.2	16.9
		22*			62.6	54.7	50.8	46.9	43.0	39.1	35.2	31.2	27.3	23.4
		20*			71.1	64.1	60.7	57.2	53.7	50.3	46.8	43.3	39.9	36.4
		18*			87.9	82.8	80.2	77.6	75.1	72.5	69.9	67.3	64.8	62.2
XB-12	12	24*			62.4	54.6	50.7	46.8	42.9	39.0	35.1	31.2	27.3	23.4
		22			84.9	73.7	68.0	62.4	56.8	51.1	45.5	39.9	34.2	28.6
		20*			107.5	92.7	85.4	78.0	70.6	63.6	55.9	48.5	41.2	33.8
		18*			129.5	113.6	105.7	97.8	89.9	82.0	74.1	66.1	58.2	50.3
XB-16	16	24*			66.5	56.8	52.0	47.2	42.3	37.5	32.7	27.9	23.0	18.2
		22*			75.3	64.4	58.9	53.5	48.0	42.6	37.1	31.7	26.2	20.8
		20*			84.1	71.9	65.9	59.8	53.7	47.7	41.6	35.5	29.5	23.4
		18			101.5	86.9	79.6	72.3	65.0	57.7	50.5	43.2	35.9	28.6

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 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
XAB-16	16	24*	L/180	MIP Clip	95.9	78.0	69.1	60.2	51.3	42.4	33.5	24.5	15.6	6.7
		22			97.4	81.7	73.9	66.0	58.2	50.3	42.5	34.6	26.8	18.9
		20*			98.9	85.3	78.6	71.8	65.0	58.3	51.5	44.7	38.0	31.2
		18			101.8	92.6	87.9	83.3	78.7	74.0	69.4	64.8	60.1	55.5
XAAB-16		22*			83.7	72.9	67.4	62.0	56.6	51.1	45.7	40.3	34.8	29.4
		20			88.8	77.4	71.7	66.0	60.3	54.5	48.8	43.1	37.4	31.7
		18*			99.0	86.4	80.1	73.9	67.6	61.3	55.0	48.7	42.4	36.2
XABB-16		22*			86.1	73.1	66.6	60.1	53.6	47.1	40.6	34.1	27.6	21.2
		20			90.3	77.2	70.6	64.0	57.4	50.8	44.3	37.7	31.1	24.5
		18*			100.4	86.6	79.7	72.8	65.8	58.9	52.0	45.1	38.1	31.2
XC-12	12	22			98.0	81.1	72.7	64.3	55.9	47.5	39.1	30.6	22.2	13.8
		20*			110.2	91.3	81.9	72.4	63.0	53.5	44.1	34.6	25.2	15.7
		18*			128.1	112.2	104.3	96.4	88.4	80.5	72.6	64.7	56.7	48.8
XD-12		18*			99.6	89.3	84.2	79.1	73.9	68.8	63.7	58.5	53.4	48.3
XE-12		18*			119.5	105.5	98.5	91.5	84.5	77.5	70.5	63.5	56.5	49.6
XF-12		24*			54.9	47.4	43.6	39.9	36.1	32.3	28.6	24.8	21.0	17.3
		22			73.0	61.9	56.4	50.9	45.4	39.9	34.4	28.9	23.4	17.9
		20*			91.0	76.5	69.2	62.0	54.7	47.5	40.2	33.0	25.7	18.5
		18*			126.7	105.3	94.6	83.9	73.2	62.5	51.8	41.1	30.3	19.6
XG-12		24*			66.6	57.9	53.6	49.3	45.0	40.7	36.4	32.0	27.7	23.4
		22			91.7	79.3	73.2	67.0	60.8	54.6	48.5	42.3	36.1	29.9
		20*			116.8	100.8	92.7	84.7	76.6	68.6	60.5	52.5	44.5	36.4
		18*			100.3	89.1	83.5	77.9	72.2	66.6	61.0	55.4	49.8	44.2
S-16	16	24			57.4	49.8	45.9	42.1	38.3	34.4	30.6	26.8	22.9	19.1
		22*			79.8	69.6	64.6	59.5	54.4	49.4	44.3	39.2	34.2	29.1
		20*			102.0	89.4	83.1	76.8	70.5	64.2	57.9	51.6	45.3	39.0
		18*			100.4	87.3	80.8	74.3	67.7	61.2	54.6	48.1	41.5	35.0

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.

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
X-12	12	0.032*	L/180	MIP Clip	67.3	56.1	50.6	45.0	39.4	33.9	28.3	22.7	17.2	11.6
		0.040			87.1	72.0	64.4	56.9	49.4	41.8	34.3	26.8	19.2	11.7
		0.050*			111.8	91.8	81.8	71.8	61.8	51.8	41.8	31.8	21.8	11.8
X-16	16	0.032*			30.1	28.1	27.0	26.0	25.0	23.0	22.9	21.9	20.8	19.8
		0.040			58.4	51.1	47.5	43.9	40.3	36.7	33.1	29.4	25.8	22.2
		0.050*			93.7	80.0	73.2	66.3	59.4	52.6	45.7	38.9	32.0	25.1
XA-12	12	0.050*			99.5	86.9	80.6	74.4	68.1	61.8	55.5	49.2	42.9	36.7
XA-16	16	0.032*			33.1	29.8	28.1	26.5	24.9	23.2	21.6	19.9	18.3	16.6
		0.040			48.7	43.4	40.7	38.0	35.3	32.6	30.0	27.3	24.6	21.9
		0.050*			69.8	61.5	57.4	53.3	49.2	45.1	41.0	36.8	32.7	28.6
XB-12	12	0.032*			60.3	52.4	48.5	44.5	40.6	36.6	32.7	28.7	24.8	20.8
		0.040			69.7	61.4	57.2	53.1	48.9	44.7	40.6	36.4	32.3	28.1
		0.050*			99.5	86.9	80.6	74.4	68.1	61.8	55.5	49.2	42.9	36.7
XB-16	16	0.040			53.0	47.0	44.0	41.0	38.1	35.1	32.1	29.1	26.1	23.1
		0.050*			60.7	53.8	50.3	46.8	43.4	39.9	36.4	33.0	29.5	26.0
XAB-16		0.040			83.1	69.9	63.3	56.8	50.2	43.6	37.1	30.5	23.9	17.4
		0.050*			138.4	114.6	103.0	91.1	79.3	67.5	55.6	43.6	32.0	20.1
XAAB-16		0.040*			58.3	50.3	46.4	42.4	38.4	34.5	30.5	26.5	22.5	18.6
		0.050*			76.2	65.9	60.7	55.6	50.5	45.3	40.2	35.0	29.9	24.8
XABB-16		0.040*			69.6	60.0	55.2	50.5	45.7	40.9	36.1	31.3	26.5	21.7
		0.050*			74.7	66.6	62.5	58.5	54.4	50.4	46.3	42.3	38.2	34.2
XC-12	12	0.040			90.9	78.2	71.8	65.4	59.0	52.6	46.3	39.9	33.5	27.1
		0.050*			115.7	98.9	90.5	82.1	73.7	65.4	57.0	48.6	40.2	31.8
XD-12		0.040			65.0	56.3	51.9	47.6	43.3	38.9	34.6	30.2	25.9	21.5
		0.050*			98.9	86.3	79.9	73.6	67.3	61.0	54.6	48.3	42.0	35.7
XE-12		0.032*			67.1	57.2	52.2	47.3	42.3	37.3	32.4	27.4	22.4	17.5
		0.040			66.9	57.7	53.0	48.4	43.8	39.1	34.5	29.9	25.2	20.6
		0.050*			66.7	58.2	54.0	49.8	45.6	41.4	37.2	32.9	28.7	24.5
XF-12		0.050*			83.2	74.0	69.4	64.8	60.1	55.5	50.9	46.3	41.7	37.1
XG-12		0.032*			23.9	21.3	20.0	18.7	17.4	16.1	14.8	13.5	12.2	10.9
		0.040			32.9	30.1	28.6	27.2	25.8	24.4	22.9	21.5	20.1	18.7
		0.050*			44.2	41.0	39.4	37.9	36.3	34.7	33.1	31.5	29.9	28.4
S-16	16	0.032*			75.5	64.5	59.1	53.6	48.1	42.7	37.2	31.7	26.2	20.8
		0.040			79.7	65.2	57.9	50.6	43.4	36.1	28.8	21.5	14.2	6.9

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.



Contact Details

USA

HQ / East
685 Middle Street | Bristol
CT 06010

T: 1-800-640-9501

West
10707 Commerce Way | Fontana
CA 92337

T: 1-800-700-6140

South
1975 Eidson Drive | DeLand
FL 32724

T: 1-800-640-9501

Central
15000 Panatela Parkway | Little Rock
AR 72206

T: 1-800-640-9501

www.morincorp.com

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ENVIRONMENTAL PRODUCT DECLARATION
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PLANET PASSIONATE

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Morin® By Kingspan

July 01, 2026