



Connecting Strength

Date: 2026AUG27

Subject: **CrossRail Tilt 10, 10 Degree Tilt – 44-X Profiles, 150-180 MPH Wind, 0 PSF Snow Load**
Span Charts & Pressure Tables

Enclosed are the span and pressure tables for K2 Systems – US, CrossRail Tilt 10, 10 Degree Tilt – 44-X Profiles as they relate to installations for Puerto Rico. These include the following design criteria, which has been evaluated:

Code: ASCE 7-16

Wind Speed: 150 MPH to 180 MPH, including B, C & D Exposure Categories

Snow Load: 0 PSF Snow

Roof Types: Flat/Monoslope Roof

Roof Pitch: 0-7 Degrees

Mena Roof Heights: 0-15 FT, 30 FT & 60 FT Above Grade

Roof Zones: 1, 2, 3

Module Installation: Interior & Exposed Placement

Module Sizes: 40"W x 80"L, 45"W x 90"L Portrait Orientation

Span / Pressure Table Assumptions:

- K2 Systems CrossClamp End & Mid Clamps for Module Mounting
- Refer to Chapter 7 of ASCE 7-16 or 7-22 for the calculation/determination of the p_s
- 1/4 in. gap between all panel edges
- Maximum end cantilever of aluminum support rail shall not exceed one-third (1/3) of allowable span in the roof wind pressure zone of the cantilever
- Installation over roof overhangs or within 10" of any roof edge is not advised
- The fasteners to the main support structure and the main support structure have not been analyzed. Verify that actual span does not exceed the capacity of fasteners or main support structure
- Reference K2-Systems installation manual for proper bracket and screw placement.



08/28/2026

The engineers seal on this document solely indicates the specified framing has been designed in accordance with the outlined design criteria within the spans and pressure tables referenced herein.
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Attachments: Tilt 10, 10 Degree, 44-X CrossRail Span Tables, PUB2026AUG27

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 150 MPH 0 PSF

Span & Pressure Tables | 40 in. W x 80 in. L Module



Connecting Strength

Module Size	40 in. W x 80 in. L	Wind Speed	150 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	75	66	61	63	55	51	69	60	56	58	50	46
	Max Uplift Reaction (lb)	-30.1	-47.0	-57.1	-54.0	-72.8	-84.6	-41.6	-59.0	-70.4	-67.2	-86.5	-98.5
	Max DNforce Reaction (lb)	132.3	137.0	140.2	139.8	147.8	154.1	135.6	140.8	146.7	146.3	154.7	161.1
	Max Shear Reaction (lb)	94.6	111.7	122.1	119.2	139.6	153.1	106.3	124.0	136.9	134.0	155.0	168.7
C	Max Span (in)	63	55	51	53	46	42	58	50	47	48	42	38
	Max Uplift Reaction (lb)	-53.5	-72.3	-84.0	-81.0	-102.4	-114.5	-66.7	-85.9	-99.9	-95.0	-119.0	-130.8
	Max DNforce Reaction (lb)	139.3	147.2	153.5	153.2	165.1	171.7	145.7	154.0	163.9	160.4	176.2	182.6
	Max Shear Reaction (lb)	118.5	138.8	152.2	149.5	174.2	188.0	133.2	154.1	171.4	165.4	194.2	207.8
D	Max Span (in)	58	51	47	48	42	39	53	46	43	44	38	35
	Max Uplift Reaction (lb)	-65.9	-86.7	-98.9	-94.1	-117.8	-133.0	-79.6	-100.7	-115.4	-110.3	-134.5	-149.8
	Max DNforce Reaction (lb)	145.0	156.2	162.9	159.5	175.1	186.2	151.8	163.4	174.0	170.3	186.3	197.5
	Max Shear Reaction (lb)	132.2	156.0	170.0	164.1	192.7	211.6	147.5	171.8	190.0	183.7	212.9	231.9

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	68	60	56	57	50	46	65	57	53	54	47	44
	Max Uplift Reaction (lb)	-42.5	-60.9	-72.4	-68.0	-88.8	-100.9	-48.8	-67.4	-79.1	-74.6	-95.4	-109.8
	Max DNforce Reaction (lb)	135.1	142.6	148.7	145.7	157.0	163.6	137.4	145.1	151.3	148.2	159.4	169.7
	Max Shear Reaction (lb)	106.8	126.6	139.7	134.3	158.2	172.1	113.4	133.5	146.9	141.3	165.1	182.9
C	Max Span (in)	59	51	48	49	43	39	56	49	45	47	40	37
	Max Uplift Reaction (lb)	-63.7	-82.9	-96.7	-91.8	-115.8	-127.8	-70.3	-91.1	-103.2	-100.5	-121.8	-136.8
	Max DNforce Reaction (lb)	144.1	152.3	162.1	158.6	174.4	180.9	146.6	157.9	164.6	164.6	176.3	187.2
	Max Shear Reaction (lb)	129.8	150.6	167.6	161.6	190.5	204.3	136.8	160.7	174.6	172.2	196.8	215.3
D	Max Span (in)	55	48	44	45	39	36	52	45	42	43	37	34
	Max Uplift Reaction (lb)	-75.4	-96.8	-109.0	-104.0	-127.9	-143.0	-82.1	-103.3	-118.0	-112.9	-136.9	-152.0
	Max DNforce Reaction (lb)	150.3	162.2	169.0	165.4	181.1	192.0	153.0	164.6	175.2	171.5	187.3	198.3
	Max Shear Reaction (lb)	143.2	167.8	181.9	175.7	204.5	223.2	150.4	174.7	192.9	186.5	215.4	234.2

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	59	51	47	49	42	39	57	50	46	48	41	38
	Max Uplift Reaction (lb)	-63.5	-84.0	-96.0	-91.7	-114.5	-129.5	-66.4	-88.4	-100.5	-96.2	-119.2	-134.2
	Max DNforce Reaction (lb)	143.9	153.5	160.0	158.5	171.7	182.6	144.1	156.5	163.2	161.6	175.0	186.0
	Max Shear Reaction (lb)	129.6	152.2	166.0	161.5	188.0	206.6	132.2	157.6	171.5	167.0	193.8	212.5
C	Max Span (in)	51	45	41	43	37	34	50	43	40	41	36	33
	Max Uplift Reaction (lb)	-82.6	-107.2	-119.5	-115.4	-141.7	-157.3	-86.9	-109.4	-124.2	-117.4	-146.6	-162.1
	Max DNforce Reaction (lb)	152.1	168.6	175.3	174.0	192.1	203.6	155.0	168.0	178.7	173.2	195.7	207.0
	Max Shear Reaction (lb)	150.3	180.1	194.2	190.0	222.2	241.6	155.5	181.7	200.0	191.3	228.2	247.5
D	Max Span (in)	48	42	39	40	34	32	47	41	38	39	33	31
	Max Uplift Reaction (lb)	-93.0	-118.2	-133.6	-126.4	-152.2	-172.6	-97.4	-123.0	-138.4	-131.2	-157.0	-177.3
	Max DNforce Reaction (lb)	158.4	175.4	186.7	180.9	198.6	216.2	161.5	178.9	190.2	184.4	201.9	219.6
	Max Shear Reaction (lb)	162.5	193.2	212.3	203.1	234.6	261.3	168.0	199.1	218.3	209.1	240.4	267.2

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 150 MPH 0 PSF

Span & Pressure Tables | 45" W x 90" L Module



Connecting Strength

Module Size	45" W x 90" L	Wind Speed	150 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	71	63	58	59	52	48	65	57	53	54	48	44
	Max Uplift Reaction (lb)	-31.7	-49.5	-60.1	-56.4	-76.3	-88.4	-43.7	-62.0	-73.9	-69.9	-92.2	-104.7
	Max DNforce Reaction (lb)	140.5	146.1	149.0	146.9	156.0	162.0	143.3	149.4	155.1	152.7	165.7	172.1
	Max Shear Reaction (lb)	100.3	118.6	129.2	125.0	146.8	160.4	112.1	131.1	144.4	139.7	165.6	179.8
C	Max Span (in)	60	52	48	50	43	40	54	48	44	45	39	36
	Max Uplift Reaction (lb)	-56.9	-75.6	-87.7	-85.5	-106.2	-121.2	-69.4	-91.5	-103.9	-99.6	-122.7	-137.9
	Max DNforce Reaction (lb)	148.8	155.3	161.3	162.1	172.1	182.5	152.1	165.0	171.3	168.6	182.4	193.0
	Max Shear Reaction (lb)	126.4	146.0	159.5	157.9	181.1	199.4	138.9	131.1	178.7	173.6	165.6	219.3
D	Max Span (in)	55	48	44	45	40	37	50	44	40	41	36	33
	Max Uplift Reaction (lb)	-69.9	-90.4	-102.8	-98.7	-124.6	-140.3	-83.9	-107.0	-119.3	-115.0	-141.6	-157.2
	Max DNforce Reaction (lb)	154.1	164.0	170.2	167.6	185.9	197.0	160.5	174.4	180.6	177.8	196.8	207.7
	Max Shear Reaction (lb)	140.3	163.3	177.2	172.3	204.1	223.5	155.8	182.9	196.9	191.6	224.5	243.6

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	64	57	53	54	47	44	62	54	50	51	45	41
	Max Uplift Reaction (lb)	-44.6	-64.1	-76.1	-72.0	-92.8	-107.4	-52.0	-71.0	-83.0	-78.8	-101.6	-113.9
	Max DNforce Reaction (lb)	142.7	151.5	157.4	154.7	164.8	174.9	147.0	153.7	159.6	157.0	170.6	176.7
	Max Shear Reaction (lb)	112.6	134.0	196.9	142.5	165.7	183.6	121.2	141.1	154.5	149.5	176.3	190.1
C	Max Span (in)	56	49	45	46	40	37	53	46	43	44	38	35
	Max Uplift Reaction (lb)	-67.5	-88.4	-100.8	-96.4	-119.8	-135.0	-74.4	-95.2	-109.8	-105.3	-128.9	-144.1
	Max DNforce Reaction (lb)	153.3	163.5	169.8	166.9	181.1	191.7	155.6	165.7	175.7	172.7	187.1	197.8
	Max Shear Reaction (lb)	137.9	161.3	175.3	169.9	197.5	216.1	145.1	168.2	186.1	180.6	208.5	227.2
D	Max Span (in)	51	45	42	43	37	34	49	43	40	41	35	32
	Max Uplift Reaction (lb)	-78.2	-100.9	-115.8	-111.2	-135.1	-150.4	-86.6	-109.9	-125.1	-120.5	-144.2	-159.4
	Max DNforce Reaction (lb)	156.3	169.8	180.2	177.1	191.8	202.5	161.7	175.8	186.4	183.3	197.9	208.4
	Max Shear Reaction (lb)	148.6	175.3	193.6	188.0	216.2	235.1	158.7	186.2	204.9	199.2	227.3	245.9

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	55	48	45	46	40	37	54	47	43	45	39	36
	Max Uplift Reaction (lb)	-67.0	-88.9	-103.3	-97.2	-122.7	-138.1	-71.1	-93.4	-105.6	-101.8	-127.4	-143.0
	Max DNforce Reaction (lb)	151.3	162.5	172.3	167.7	184.0	194.8	153.9	165.4	171.5	170.8	187.2	198.1
	Max Shear Reaction (lb)	136.3	161.2	178.7	171.0	201.5	220.4	141.3	166.5	180.2	176.6	207.3	226.3
C	Max Span (in)	48	42	39	40	35	32	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-87.8	-112.6	-127.8	-121.2	-150.8	-166.4	-92.2	-117.3	-132.6	-126.0	-155.7	-171.2
	Max DNforce Reaction (lb)	161.4	177.0	187.5	182.5	204.5	215.5	164.3	180.1	190.8	185.8	207.8	218.7
	Max Shear Reaction (lb)	159.6	189.1	207.7	199.5	236.4	255.6	164.9	194.8	213.6	205.3	242.4	261.4
D	Max Span (in)	45	39	36	37	32	30	44	38	35	36	31	29
	Max Uplift Reaction (lb)	-98.4	-123.5	-138.6	-132.0	-161.2	-181.9	-103.0	-128.2	-143.4	-136.8	-165.8	-186.5
	Max DNforce Reaction (lb)	167.4	183.3	193.8	188.7	210.2	227.9	170.4	186.4	197.0	191.9	213.3	230.9
	Max Shear Reaction (lb)	171.9	201.8	220.3	212.0	248.4	275.4	177.4	207.5	226.1	217.8	253.9	281.0

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 160 MPH 0 PSF

Span & Pressure Tables | 40 in. W x 80 in. L Module



Connecting Strength

Module Size	40 in. W x 80 in. L	Wind Speed	160 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	71	62	58	59	52	48	65	57	53	54	47	44
	Max Uplift Reaction (lb)	-37.4	-54.6	-65.9	-61.7	-82.0	-94.0	-49.1	-67.8	-79.5	-75.0	-95.9	-110.3
	Max DNforce Reaction (lb)	134.1	139.1	144.9	142.1	152.9	159.4	137.7	145.5	151.7	148.6	159.9	170.2
	Max Shear Reaction (lb)	101.9	119.4	132.1	127.0	150.2	164.0	113.9	134.1	147.4	141.9	165.8	183.6
C	Max Span (in)	60	52	48	49	43	40	54	47	44	45	39	36
	Max Uplift Reaction (lb)	-62.2	-81.4	-93.3	-88.7	-111.9	-126.9	-74.4	-95.2	-109.5	-104.5	-128.4	-143.6
	Max DNforce Reaction (lb)	143.9	152.2	158.7	155.4	170.5	181.4	148.0	159.2	169.4	165.9	181.6	192.6
	Max Shear Reaction (lb)	128.4	149.3	163.0	157.3	185.2	203.7	141.1	164.8	182.5	176.4	205.2	224.0
D	Max Span (in)	55	48	44	45	39	36	50	43	40	41	36	33
	Max Uplift Reaction (lb)	-75.0	-96.2	-108.4	-103.6	-127.3	-142.3	-88.9	-110.2	-124.9	-119.9	-147.5	-163.0
	Max DNforce Reaction (lb)	149.9	161.6	168.4	164.9	180.4	191.3	157.1	168.8	179.4	175.7	196.6	208.0
	Max Shear Reaction (lb)	142.6	167.0	181.1	175.0	203.6	222.2	158.3	182.8	201.0	194.8	229.5	248.8

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	65	57	52	54	47	43	62	54	50	51	45	41
	Max Uplift Reaction (lb)	-50.8	-69.8	-80.1	-77.1	-98.3	-110.4	-57.3	-76.5	-88.4	-83.7	-107.1	-119.3
	Max DNforce Reaction (lb)	139.4	147.5	151.0	150.7	162.4	169.0	141.8	150.0	156.6	153.2	168.4	175.1
	Max Shear Reaction (lb)	116.2	136.8	147.6	144.8	169.2	183.1	123.1	143.9	157.7	151.9	179.9	193.9
C	Max Span (in)	56	48	45	46	40	37	53	46	43	44	38	35
	Max Uplift Reaction (lb)	-72.7	-92.1	-106.3	-101.3	-125.3	-140.5	-79.4	-100.6	-115.3	-110.2	-134.3	-149.7
	Max DNforce Reaction (lb)	149.0	157.5	167.6	164.0	179.8	191.0	151.6	163.3	173.9	170.1	186.1	197.4
	Max Shear Reaction (lb)	140.1	161.3	178.8	172.7	201.6	220.5	147.3	171.6	189.8	183.5	212.7	231.8
D	Max Span (in)	51	45	41	42	37	34	49	43	39	40	35	32
	Max Uplift Reaction (lb)	-83.1	-106.4	-118.5	-113.4	-140.7	-156.1	-91.5	-115.3	-127.4	-122.3	-149.8	-165.0
	Max DNforce Reaction (lb)	152.6	167.7	174.3	170.7	191.1	202.4	158.3	173.9	180.5	176.8	197.4	208.6
	Max Shear Reaction (lb)	151.1	179.0	192.9	186.6	220.8	239.9	161.2	189.9	203.8	197.4	231.9	250.8

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	56	48	45	46	40	37	54	47	43	45	39	36
	Max Uplift Reaction (lb)	-72.6	-93.3	-107.8	-101.2	-126.9	-142.4	-75.4	-97.8	-109.9	-105.8	-131.7	-147.2
	Max DNforce Reaction (lb)	148.9	158.7	169.1	163.9	181.4	192.8	149.0	161.9	168.5	167.1	184.9	196.3
	Max Shear Reaction (lb)	140.0	163.0	180.8	172.5	203.7	223.1	142.5	168.5	182.4	178.1	209.8	229.1
C	Max Span (in)	48	42	39	40	34	32	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-91.8	-116.8	-132.0	-125.0	-150.6	-170.7	-96.2	-121.6	-136.9	-129.8	-159.9	-175.4
	Max DNforce Reaction (lb)	157.2	174.1	185.2	179.5	196.9	214.3	160.3	177.5	188.7	182.9	206.3	217.6
	Max Shear Reaction (lb)	160.9	191.3	210.2	201.1	232.3	258.7	166.3	197.2	216.2	207.0	245.3	264.5
D	Max Span (in)	45	39	36	37	32	30	44	38	35	36	31	29
	Max Uplift Reaction (lb)	-102.3	-127.6	-142.8	-135.7	-165.3	-186.2	-106.9	-132.4	-147.5	-140.4	-170.0	-190.8
	Max DNforce Reaction (lb)	163.7	180.8	191.9	186.1	208.9	227.1	166.8	184.2	195.2	189.4	212.2	230.3
	Max Shear Reaction (lb)	173.4	204.1	223.0	213.8	251.2	278.7	178.9	210.0	228.8	219.6	257.0	284.4

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 160 MPH 0 PSF

Span & Pressure Tables | 45" W x 90" L Module



Connecting Strength

Module Size	45" W x 90" L	Wind Speed	160 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	67	59	55	56	49	46	61	54	50	51	45	41
	Max Uplift Reaction (lb)	-39.3	-57.4	-69.2	-65.4	-85.6	-100.0	-51.5	-71.1	-83.3	-79.2	-101.9	-114.2
	Max DNforce Reaction (lb)	142.0	147.9	153.5	151.2	160.7	170.5	145.0	153.9	159.9	157.4	170.8	177.0
	Max Shear Reaction (lb)	107.6	126.3	139.4	135.0	157.4	174.9	119.7	141.3	154.9	150.1	176.7	190.6
C	Max Span (in)	56	49	46	47	41	38	51	45	42	43	37	34
	Max Uplift Reaction (lb)	-64.8	-85.0	-99.3	-95.1	-118.4	-134.0	-78.6	-101.1	-116.2	-111.7	-135.3	-150.8
	Max DNforce Reaction (lb)	150.6	160.1	169.8	167.1	181.3	192.2	156.7	170.1	180.5	177.6	192.0	202.9
	Max Shear Reaction (lb)	134.2	156.5	173.9	168.9	196.4	215.5	149.2	141.3	194.1	188.7	176.7	235.7
D	Max Span (in)	52	45	42	43	37	34	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-79.3	-100.0	-115.0	-110.7	-134.0	-149.4	-93.5	-116.6	-132.0	-127.5	-154.8	-170.4
	Max DNforce Reaction (lb)	159.0	169.0	179.3	176.6	190.7	201.5	165.5	179.5	190.2	187.3	207.0	217.9
	Max Shear Reaction (lb)	151.0	174.1	192.4	187.3	214.8	233.6	166.6	193.9	212.8	207.4	241.2	260.4

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	61	54	50	51	44	41	58	51	47	48	42	39
	Max Uplift Reaction (lb)	-53.2	-73.4	-85.7	-81.4	-102.3	-117.2	-59.9	-80.3	-92.5	-88.2	-111.3	-126.3
	Max DNforce Reaction (lb)	146.7	156.1	162.3	159.5	169.8	180.0	148.8	158.5	164.5	161.8	175.6	186.1
	Max Shear Reaction (lb)	122.1	144.4	212.8	153.1	176.5	194.6	129.0	151.6	165.3	160.1	187.3	205.7
C	Max Span (in)	52	46	42	43	38	35	50	44	40	41	36	33
	Max Uplift Reaction (lb)	-75.5	-98.1	-110.4	-105.9	-132.5	-148.1	-83.8	-107.1	-119.4	-114.9	-141.8	-157.2
	Max DNforce Reaction (lb)	155.2	168.6	174.8	171.8	190.7	201.7	160.5	174.5	180.7	177.7	197.0	207.8
	Max Shear Reaction (lb)	145.7	172.2	186.1	180.7	213.4	232.6	155.7	183.1	196.9	191.5	224.7	243.7
D	Max Span (in)	49	42	39	40	35	32	46	40	37	38	33	30
	Max Uplift Reaction (lb)	-89.3	-110.5	-125.5	-120.9	-148.1	-163.6	-96.1	-119.5	-134.6	-130.1	-157.3	-172.4
	Max DNforce Reaction (lb)	164.4	174.8	185.2	182.2	201.8	212.7	166.6	180.8	191.3	188.3	207.9	218.3
	Max Shear Reaction (lb)	162.5	186.2	204.5	199.0	232.7	251.8	169.5	197.0	215.6	210.1	243.8	262.2

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	52	45	42	43	37	35	51	44	41	42	36	34
	Max Uplift Reaction (lb)	-76.2	-98.4	-113.1	-106.8	-132.0	-151.4	-80.5	-103.0	-117.8	-111.5	-136.7	-156.3
	Max DNforce Reaction (lb)	155.9	167.4	177.4	172.7	188.7	205.0	158.6	170.4	180.6	175.8	191.9	208.4
	Max Shear Reaction (lb)	146.7	171.9	189.8	181.9	212.0	237.2	151.8	177.4	195.5	187.6	217.7	243.2
C	Max Span (in)	46	40	36	38	32	30	44	39	36	37	32	29
	Max Uplift Reaction (lb)	-99.4	-125.2	-137.0	-134.0	-159.4	-179.9	-101.7	-130.0	-145.8	-138.9	-169.2	-184.5
	Max DNforce Reaction (lb)	169.9	186.5	192.2	192.3	208.5	225.9	169.2	189.8	201.0	195.7	218.3	228.9
	Max Shear Reaction (lb)	174.0	205.0	218.2	215.6	245.9	272.7	175.7	210.9	230.3	221.6	259.5	278.2
D	Max Span (in)	43	37	34	35	30	28	42	36	33	34	30	27
	Max Uplift Reaction (lb)	-110.4	-136.2	-151.6	-144.9	-174.3	-195.4	-115.2	-141.0	-156.4	-149.6	-184.9	-199.7
	Max DNforce Reaction (lb)	176.3	192.9	203.7	198.5	220.3	238.3	179.6	196.2	207.0	201.8	230.9	241.1
	Max Shear Reaction (lb)	186.9	217.9	236.8	228.2	265.0	292.5	192.7	223.7	242.5	234.0	279.6	297.7

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 170 MPH 0 PSF

Span & Pressure Tables | 40 in. W x 80 in. L Module



Connecting Strength

Module Size	40 in. W x 80 in. L	Wind Speed	170 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	67	59	55	56	49	45	62	54	50	51	45	41
	Max Uplift Reaction (lb)	-44.2	-62.6	-74.1	-69.8	-90.5	-102.5	-57.0	-76.1	-88.0	-83.4	-106.6	-118.7
	Max DNforce Reaction (lb)	135.5	143.0	149.1	146.1	157.2	163.8	141.5	149.7	156.1	152.9	167.9	174.5
	Max Shear Reaction (lb)	108.5	128.3	141.4	136.1	159.8	173.5	122.7	143.4	157.0	151.4	179.2	193.1
C	Max Span (in)	56	49	46	47	41	37	51	45	41	43	37	34
	Max Uplift Reaction (lb)	-69.2	-89.8	-104.0	-99.1	-123.2	-134.9	-82.7	-105.8	-117.9	-115.6	-140.0	-155.3
	Max DNforce Reaction (lb)	145.5	156.6	166.7	163.2	179.1	185.3	152.2	167.1	173.7	174.2	190.4	201.6
	Max Shear Reaction (lb)	135.3	158.9	176.3	170.3	199.4	212.8	150.5	178.2	192.0	190.3	219.7	238.8
D	Max Span (in)	52	45	42	43	37	34	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-83.5	-104.8	-119.6	-114.5	-138.7	-153.9	-97.5	-121.3	-136.5	-131.3	-159.5	-174.9
	Max DNforce Reaction (lb)	154.3	166.1	176.8	173.1	189.1	200.2	161.5	177.1	188.3	184.4	205.9	217.2
	Max Shear Reaction (lb)	152.2	176.8	195.1	188.8	218.0	236.9	168.0	196.7	215.6	209.1	244.7	263.9

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	61	54	50	51	44	41	58	51	47	48	42	39
	Max Uplift Reaction (lb)	-57.8	-78.2	-90.3	-85.5	-106.8	-121.5	-64.4	-84.9	-96.9	-92.1	-115.6	-130.6
	Max DNforce Reaction (lb)	140.9	151.8	158.4	155.0	166.8	177.4	143.4	154.4	161.0	157.5	172.8	183.8
	Max Shear Reaction (lb)	123.1	146.3	160.2	154.4	178.8	197.1	130.0	153.5	167.3	161.4	189.6	208.2
C	Max Span (in)	52	46	42	43	38	35	50	44	40	41	36	33
	Max Uplift Reaction (lb)	-79.6	-102.7	-114.8	-109.7	-136.9	-152.4	-87.9	-111.5	-123.7	-118.6	-146.1	-161.5
	Max DNforce Reaction (lb)	150.5	165.3	172.0	168.3	188.7	200.1	156.0	171.5	178.2	174.4	195.1	206.5
	Max Shear Reaction (lb)	146.9	174.5	188.4	182.2	216.2	235.5	156.9	185.3	199.3	193.0	227.5	246.7
D	Max Span (in)	49	42	39	40	35	32	46	40	37	38	33	30
	Max Uplift Reaction (lb)	-93.4	-114.9	-129.8	-124.6	-152.6	-167.9	-100.0	-123.8	-138.9	-133.6	-161.6	-176.6
	Max DNforce Reaction (lb)	160.2	172.1	182.9	179.1	200.3	211.5	162.7	178.3	189.3	185.4	206.5	217.5
	Max Shear Reaction (lb)	163.8	188.6	207.1	200.6	235.8	254.9	170.9	199.4	218.3	211.7	246.8	265.5

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	53	46	42	43	37	35	51	44	41	42	37	34
	Max Uplift Reaction (lb)	-81.0	-104.0	-116.3	-109.6	-134.9	-154.3	-83.8	-106.3	-121.0	-114.2	-143.5	-159.2
	Max DNforce Reaction (lb)	153.3	166.7	173.5	168.2	185.3	202.0	153.3	166.2	176.9	171.5	193.9	205.5
	Max Shear Reaction (lb)	149.5	176.3	190.5	182.0	212.8	238.2	151.9	178.1	196.3	187.7	224.7	244.2
C	Max Span (in)	46	40	36	38	32	30	45	39	36	37	32	29
	Max Uplift Reaction (lb)	-102.4	-128.3	-140.0	-136.5	-162.1	-182.6	-107.0	-133.1	-148.8	-141.4	-172.1	-187.2
	Max DNforce Reaction (lb)	165.0	182.8	189.0	188.3	205.7	223.5	168.3	186.3	197.8	191.8	215.7	226.7
	Max Shear Reaction (lb)	174.1	205.7	219.0	215.7	246.8	273.8	179.8	211.7	231.2	221.7	260.6	279.4
D	Max Span (in)	43	37	34	35	30	28	42	36	33	34	30	27
	Max Uplift Reaction (lb)	-113.2	-139.1	-154.5	-147.2	-176.9	-198.0	-117.9	-144.0	-159.2	-151.9	-187.6	-202.3
	Max DNforce Reaction (lb)	171.8	189.6	200.8	194.9	217.8	236.2	175.2	193.0	204.2	198.2	228.5	239.1
	Max Shear Reaction (lb)	187.0	218.6	237.7	228.3	265.9	293.7	192.8	224.6	243.5	234.1	280.7	298.9

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 170 MPH 0 PSF

Span & Pressure Tables | 45" W x 90" L Module



Connecting Strength

Module Size	45" W x 90" L	Wind Speed	170 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	64	56	52	53	47	43	58	51	47	48	42	39
	Max Uplift Reaction (lb)	-47.2	-65.7	-77.7	-73.8	-96.2	-108.7	-59.5	-79.6	-91.9	-87.7	-110.4	-125.5
	Max DNforce Reaction (lb)	145.2	151.5	157.4	155.0	168.2	174.6	148.4	157.8	163.9	161.3	174.8	185.3
	Max Shear Reaction (lb)	116.1	135.4	148.8	144.2	170.4	184.6	128.5	150.7	164.4	159.5	186.1	204.6
C	Max Span (in)	53	47	43	44	39	36	49	42	39	40	35	32
	Max Uplift Reaction (lb)	-73.2	-95.5	-108.0	-103.8	-130.1	-145.9	-88.9	-109.7	-124.7	-120.3	-147.1	-162.6
	Max DNforce Reaction (lb)	154.4	167.5	173.9	171.2	189.8	201.1	164.0	174.0	184.4	181.6	200.8	211.7
	Max Shear Reaction (lb)	143.3	169.4	183.5	178.5	210.9	230.5	161.9	150.7	203.4	198.2	186.1	250.4
D	Max Span (in)	49	43	39	40	35	32	44	39	36	37	32	29
	Max Uplift Reaction (lb)	-87.9	-111.1	-123.4	-119.2	-145.7	-161.1	-102.0	-128.1	-143.8	-139.3	-166.9	-182.1
	Max DNforce Reaction (lb)	163.0	177.0	183.2	180.5	199.4	210.1	169.5	187.9	199.0	196.0	215.9	226.6
	Max Shear Reaction (lb)	160.6	187.9	201.7	196.6	229.4	248.2	176.1	208.2	227.6	222.1	256.3	275.0

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	58	51	47	48	42	39	55	48	45	46	40	37
	Max Uplift Reaction (lb)	-61.4	-82.0	-94.4	-90.0	-113.4	-128.7	-68.2	-88.9	-103.3	-98.8	-122.6	-138.0
	Max DNforce Reaction (lb)	150.3	160.2	166.4	163.6	177.8	188.5	152.5	162.4	172.3	169.3	183.9	194.8
	Max Shear Reaction (lb)	131.0	154.0	227.6	162.7	190.2	209.0	138.1	161.1	178.7	173.3	201.3	220.3
C	Max Span (in)	50	43	40	41	36	33	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-85.6	-106.7	-121.7	-117.1	-144.4	-160.1	-92.4	-115.7	-130.9	-126.3	-153.7	-169.0
	Max DNforce Reaction (lb)	162.2	172.6	183.0	179.9	199.5	210.6	164.5	178.5	189.1	186.0	205.8	216.6
	Max Shear Reaction (lb)	158.1	181.8	200.1	194.5	228.3	247.6	165.2	192.6	211.2	205.6	239.6	258.5
D	Max Span (in)	46	40	37	38	33	30	44	38	35	36	31	29
	Max Uplift Reaction (lb)	-98.1	-121.7	-137.1	-132.5	-160.1	-175.4	-107.1	-130.9	-146.4	-141.8	-169.1	-190.2
	Max DNforce Reaction (lb)	168.6	183.0	193.8	190.7	210.7	221.4	174.5	189.2	200.0	196.9	216.7	234.7
	Max Shear Reaction (lb)	172.2	200.1	219.1	213.4	247.7	266.4	183.1	211.3	230.3	224.7	258.6	286.2

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	49	43	40	41	35	33	48	42	39	40	34	32
	Max Uplift Reaction (lb)	-84.6	-109.4	-124.5	-118.0	-143.6	-163.6	-89.0	-114.1	-129.4	-122.8	-148.3	-168.4
	Max DNforce Reaction (lb)	159.7	175.3	185.8	180.8	197.2	214.2	162.6	178.4	189.2	184.1	200.4	217.5
	Max Shear Reaction (lb)	156.0	185.4	204.0	195.8	226.4	252.5	161.3	191.1	210.0	201.7	232.1	258.4
C	Max Span (in)	43	37	34	35	31	28	42	36	33	35	30	27
	Max Uplift Reaction (lb)	-108.0	-133.5	-148.6	-142.0	-176.7	-191.6	-112.7	-138.2	-153.3	-151.0	-181.3	-195.9
	Max DNforce Reaction (lb)	173.9	190.2	200.7	195.6	224.2	234.6	177.1	193.3	203.9	204.6	227.3	237.3
	Max Shear Reaction (lb)	183.6	214.0	232.6	224.2	269.0	287.3	189.3	219.7	238.3	236.6	274.6	292.4
D	Max Span (in)	40	35	32	33	29	26	39	34	31	32	28	26
	Max Uplift Reaction (lb)	-118.9	-148.1	-163.5	-156.7	-192.4	-206.7	-123.6	-152.9	-168.2	-161.4	-196.9	-219.0
	Max DNforce Reaction (lb)	180.2	201.7	212.5	207.2	236.8	246.6	183.4	205.0	215.7	210.4	239.8	258.9
	Max Shear Reaction (lb)	196.3	232.6	251.6	242.9	289.1	306.6	202.0	238.5	257.2	248.6	294.6	323.6

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 180 MPH 0 PSF

Span & Pressure Tables | 40 in. W x 80 in. L Module



Connecting Strength

Module Size	40 in. W x 80 in. L	Wind Speed	180 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	64	56	52	53	47	43	59	51	47	49	42	39
	Max Uplift Reaction (lb)	-51.3	-70.1	-81.8	-77.3	-100.2	-112.4	-64.5	-83.7	-95.6	-92.8	-114.1	-129.0
	Max DNforce Reaction (lb)	138.5	146.4	152.6	149.5	164.3	171.0	144.9	153.2	159.7	159.6	171.4	182.1
	Max Shear Reaction (lb)	116.2	136.5	149.9	144.4	171.8	185.9	130.9	151.8	165.5	163.0	187.5	205.9
C	Max Span (in)	54	47	43	44	38	35	49	42	39	40	35	32
	Max Uplift Reaction (lb)	-78.1	-99.5	-111.6	-106.8	-130.4	-145.2	-92.1	-113.3	-128.1	-123.0	-150.6	-165.8
	Max DNforce Reaction (lb)	151.7	163.5	170.2	166.7	182.1	192.9	158.9	170.6	181.2	177.6	198.3	209.4
	Max Shear Reaction (lb)	146.2	170.8	184.8	178.7	207.2	225.6	162.1	186.4	204.7	198.5	233.0	252.0
D	Max Span (in)	49	43	39	40	35	32	45	39	36	37	32	29
	Max Uplift Reaction (lb)	-91.2	-114.9	-126.9	-121.9	-149.3	-164.4	-107.4	-131.7	-147.2	-141.9	-170.3	-185.3
	Max DNforce Reaction (lb)	158.0	173.5	180.1	176.4	197.0	208.0	168.7	184.9	196.2	192.3	213.9	224.8
	Max Shear Reaction (lb)	160.8	189.4	203.1	196.9	231.2	250.0	180.4	209.8	229.0	222.4	258.2	276.7

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	58	51	47	48	42	39	55	48	45	46	40	37
	Max Uplift Reaction (lb)	-65.2	-86.0	-98.1	-93.2	-116.9	-132.0	-71.8	-92.5	-106.8	-101.8	-125.9	-141.2
	Max DNforce Reaction (lb)	144.2	155.4	162.1	158.6	174.2	185.1	146.8	157.9	168.2	164.5	180.4	191.6
	Max Shear Reaction (lb)	131.2	154.9	168.8	162.9	191.4	210.1	138.2	161.9	179.6	173.4	202.4	221.5
C	Max Span (in)	50	43	40	41	36	33	47	41	38	39	34	31
	Max Uplift Reaction (lb)	-88.9	-110.3	-125.0	-119.9	-147.7	-163.1	-95.5	-119.0	-134.1	-128.9	-156.8	-172.0
	Max DNforce Reaction (lb)	157.1	168.9	179.5	175.7	196.7	208.1	159.6	174.9	185.9	182.0	203.1	214.2
	Max Shear Reaction (lb)	158.3	182.9	201.2	194.8	229.7	248.9	165.3	193.6	212.3	205.8	240.8	259.8
D	Max Span (in)	46	40	37	38	33	30	44	38	35	36	31	29
	Max Uplift Reaction (lb)	-101.2	-125.1	-140.3	-135.1	-163.3	-178.3	-110.0	-134.2	-149.5	-144.2	-172.1	-193.2
	Max DNforce Reaction (lb)	163.8	179.7	190.8	186.8	208.3	219.2	169.9	185.9	197.2	193.2	214.3	232.7
	Max Shear Reaction (lb)	172.4	201.4	220.3	213.7	249.2	267.9	183.2	212.4	231.5	224.9	259.9	287.7

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	50	43	40	41	35	33	49	42	39	40	35	32
	Max Uplift Reaction (lb)	-88.8	-111.6	-126.6	-119.7	-145.2	-165.2	-93.3	-116.4	-131.4	-124.4	-154.4	-170.0
	Max DNforce Reaction (lb)	156.9	170.2	181.2	175.6	192.9	210.1	160.0	173.6	184.6	178.9	202.1	213.6
	Max Shear Reaction (lb)	158.2	184.8	203.4	194.5	225.6	251.8	163.6	190.6	209.4	200.4	238.3	257.7
C	Max Span (in)	43	37	35	36	31	28	42	36	34	35	30	28
	Max Uplift Reaction (lb)	-109.9	-135.3	-154.7	-147.2	-177.9	-192.8	-114.5	-140.0	-159.6	-152.1	-182.7	-204.3
	Max DNforce Reaction (lb)	168.5	185.7	202.4	196.3	220.2	231.0	171.8	189.1	205.9	199.8	223.6	242.5
	Max Shear Reaction (lb)	182.4	213.3	238.8	229.1	268.0	286.5	188.1	219.1	244.8	235.1	273.9	302.4
D	Max Span (in)	41	35	32	33	29	26	40	34	31	32	28	26
	Max Uplift Reaction (lb)	-123.6	-149.7	-165.0	-157.6	-193.5	-207.7	-128.4	-154.6	-169.6	-162.3	-198.1	-220.0
	Max DNforce Reaction (lb)	179.4	197.4	208.6	202.6	233.0	243.2	182.9	200.9	211.8	205.9	236.2	255.4
	Max Shear Reaction (lb)	199.9	231.8	250.8	241.3	288.1	305.7	205.9	237.8	256.5	247.1	293.8	322.7

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CrossRail 44-X | Tilt 10° - 10 Degree Tilt - 180 MPH 0 PSF

Span & Pressure Tables | 45" W x 90" L Module



Connecting Strength

Module Size	45" W x 90" L	Wind Speed	180 MPH
K2 CrossRail Profile(s)	CrossRail 44-X	Ground Snow Load	0 PSF
Tilt Angle	Tilt 10° - 10 Degree Tilt	Avg. Height Above Sea Level	26 FT

PUB2026AUG27

Building Height		0-15 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	60	53	49	50	44	41	55	49	45	46	40	37
	Max Uplift Reaction (lb)	-53.7	-73.4	-85.5	-81.5	-104.0	-119.1	-67.1	-89.2	-101.7	-97.4	-120.7	-136.1
	Max DNforce Reaction (lb)	145.7	154.6	160.6	158.2	171.5	181.9	151.4	164.3	170.7	167.9	182.0	192.8
	Max Shear Reaction (lb)	122.0	143.7	157.2	152.5	178.9	197.3	136.6	162.3	176.5	171.3	198.7	217.7
C	Max Span (in)	51	44	41	42	36	34	46	40	37	38	33	30
	Max Uplift Reaction (lb)	-82.5	-103.3	-118.3	-114.0	-137.1	-156.9	-96.7	-119.9	-135.2	-130.8	-157.8	-173.0
	Max DNforce Reaction (lb)	160.7	170.7	181.1	178.4	192.3	209.0	167.2	181.2	191.9	189.0	208.4	219.0
	Max Shear Reaction (lb)	154.7	177.8	196.2	191.0	218.3	244.0	170.3	162.3	216.4	211.1	198.7	263.2
D	Max Span (in)	46	40	37	38	33	31	42	37	34	35	30	28
	Max Uplift Reaction (lb)	-95.8	-118.6	-133.8	-129.6	-156.3	-177.1	-112.1	-138.9	-154.7	-150.2	-177.5	-199.1
	Max DNforce Reaction (lb)	166.3	180.0	190.5	187.8	206.9	224.6	176.5	195.6	206.8	203.8	223.5	242.0
	Max Shear Reaction (lb)	169.0	195.9	214.5	209.5	242.4	269.6	188.5	221.5	241.0	235.6	269.4	297.6

Building Height		30 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	55	48	44	46	40	37	52	46	42	43	38	35
	Max Uplift Reaction (lb)	-69.1	-89.9	-102.1	-99.9	-123.9	-139.5	-76.0	-98.7	-111.0	-106.6	-133.2	-148.8
	Max DNforce Reaction (lb)	153.4	163.4	169.6	170.4	185.2	196.2	155.6	169.2	175.4	172.5	191.4	202.5
	Max Shear Reaction (lb)	139.3	162.5	241.0	174.8	203.1	222.3	146.4	173.1	186.9	181.6	214.4	233.7
C	Max Span (in)	47	41	38	39	34	31	45	39	36	37	32	30
	Max Uplift Reaction (lb)	-93.5	-116.9	-132.2	-127.6	-155.2	-170.7	-102.4	-126.1	-141.5	-136.9	-164.4	-185.5
	Max DNforce Reaction (lb)	165.5	179.8	190.5	187.3	207.3	218.2	171.3	185.9	196.7	193.6	213.4	231.5
	Max Shear Reaction (lb)	166.7	194.3	213.1	207.4	241.7	260.8	177.3	205.4	224.3	218.7	252.8	280.4
D	Max Span (in)	43	38	35	36	31	29	41	36	33	34	30	27
	Max Uplift Reaction (lb)	-105.8	-132.3	-147.8	-143.2	-170.8	-192.1	-114.7	-141.6	-157.0	-152.5	-185.6	-200.5
	Max DNforce Reaction (lb)	171.7	190.5	201.5	198.4	218.3	236.5	177.5	196.8	207.6	204.6	231.6	241.8
	Max Shear Reaction (lb)	180.5	213.2	232.3	226.7	260.8	288.8	191.3	224.4	243.4	237.9	280.6	298.7

Building Height		60 Ft. Above Grade											
Roof Type / Slope		Flat/Low Slope Roof 0-7 Degrees, No Parapet						Flat/Low Slope Roof 0-7 Degrees, Parapet ≤ 3'					
EXP	Module Installation	Interior			Exposed			Interior			Exposed		
	Roof Zone	1	2	3	1	2	3	1	2	3	1	2	3
B	Max Span (in)	47	41	37	39	33	31	46	40	37	38	33	30
	Max Uplift Reaction (lb)	-94.3	-119.8	-131.7	-128.6	-154.1	-174.4	-98.9	-124.6	-140.2	-133.4	-163.6	-179.1
	Max DNforce Reaction (lb)	166.3	182.6	188.4	188.3	204.6	222.0	169.4	185.9	196.9	191.7	214.2	225.1
	Max Shear Reaction (lb)	167.8	198.2	211.6	208.8	239.3	265.9	173.3	204.1	223.3	214.8	252.6	271.6
C	Max Span (in)	41	35	33	34	29	27	40	34	32	33	28	26
	Max Uplift Reaction (lb)	-118.3	-144.0	-164.0	-157.0	-187.3	-209.1	-123.2	-148.7	-168.9	-161.9	-191.7	-213.3
	Max DNforce Reaction (lb)	181.2	197.6	214.6	209.1	231.7	250.4	184.5	200.8	217.9	212.5	234.6	253.2
	Max Shear Reaction (lb)	196.3	227.0	253.1	244.2	282.1	310.6	202.1	232.7	259.0	250.1	287.4	315.7
D	Max Span (in)	38	33	30	31	27	25	37	32	30	31	26	24
	Max Uplift Reaction (lb)	-129.3	-158.8	-173.9	-167.1	-202.7	-224.6	-134.1	-163.5	-184.5	-177.4	-206.8	-228.3
	Max DNforce Reaction (lb)	187.5	209.4	219.9	214.6	244.1	262.9	190.8	212.6	230.5	224.9	246.6	265.1
	Max Shear Reaction (lb)	209.0	245.9	264.4	255.8	301.8	330.5	214.8	251.6	279.1	270.0	306.7	334.9

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