LUMOS

WATERPROOF

Vision Module System

VERSION 2026.1

RELEASED AUGUST 2026

UL 61730 · IEC 61215 · IEC 61730

01 System Overview

The Vision Module System is an integrated module and racking system that gives designers unparalleled freedom to meet a project's power and light-transmittance requirements with an off-the-shelf, modular system. It is based on glass-glass bifacial modules available in three sizes — S, L, and XL — each offered in a range of cell layouts and mounting options.

— Cell Layout Options

Numerous cell configurations tune power and daylighting from full output to fully transparent.

— Class 4 Hail Rating

Ultra-durable, fully tempered 3.2 mm low-iron PV glass on both faces for bifacial gain and extreme durability.

— Integrated Wireways

The structural rail doubles as a wireway, routing strings and home runs out of sight.

— Concealed Conductors

All module conductors and junction boxes are concealed for a super clean look and long-term durability.

— Integrated Waterproofing

Interlocking frames form a mechanically waterproof canopy — no tape or field-applied sealant.

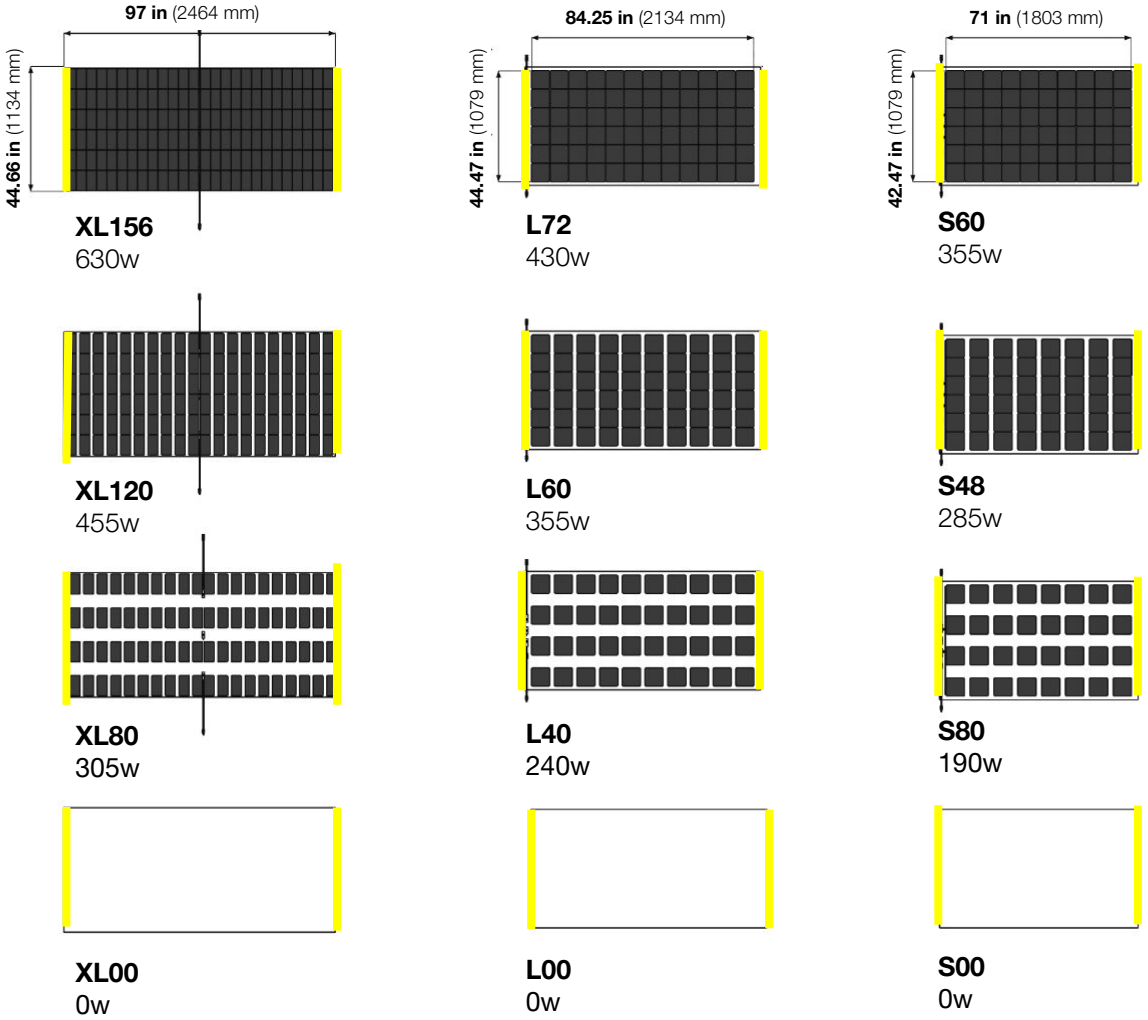
02 Module Configurations

Frame Types

Waterproof Frames
Mounted along the short edge of the module.
Modules are installed in landscape orientation running down the slope.
Interlocking frames provide mechanical waterproofing.

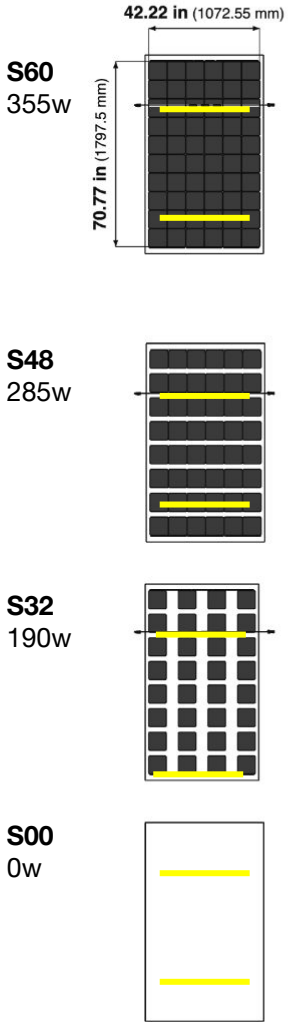
WATERPROOF

Yellow lines show mounting rail locations



Interior Mount Frames
Mounted along the short edge of the module inset from the edge of the glass. Modules can be installed in any orientation for maximum design flexibility.

OPTIONAL WEATHERPROOF



03 Module Specifications

Size	S				L				XL			
Cells	60	48	32	0	72	60	40	0	156	120	80	0
Power (W)	**355**	**285**	**190**	**0**	**430**	**355**	**240**	**0**	**630**	**455**	**305**	**0**
Light Transmittance (%)	3	18	39	80	3	16	37	81	2	20	39	81
Peak Power voltage (Vmp)	32.9 V	26.6 V	17.7 V	0 V	39.9 V	32.9 V	17.7 V	0 V	47.89 V	37.74 V	25.16 V	0 V
Maximum Power Current (Imp)	10.8 A	10.9 A	10.9 A	0 A	10.8 A	10.8 A	10.9 A	0 A	13.16 A	12.05 A	12.12 A	0 A
Open Circuit Voltage (Voc)	41.0 V	32.8 V	21.9 V	0 V	49.2 V	41.0 V	21.9 V	0 V	56.56 V	43.68 V	29.12 V	0 V
Short Circuit Current (Isc)	11.4 A	11.4 A	11.4 A	0 A	11.3 A	11.4 A	11.4 A	0 A	13.82 A	14.02 A	14.02 A	0 A
Module Efficiency	18.40%	14.80%	9.90%	0%	18.80%	15.50%	10.50%	0%	22.70%	16.40%	11.00%	0%
Cell Layout	6 x 10	6 x 8	4 x 8	0	6 x 10	6 x 8	4 x 8	0	6 x 26	6 x 20	4 x 20	0
Module Dimensions	**71.00 in x 42.47 in x 3.83 in** 1803 mm x 1079 mm x 52 mm				**84.25 in X 42.47 in X 3.83 in** 2134 mm X 1079 mm X 52 mm				**97.00 in x 44.66 in x 3.83 in** 2464 mm x 1134 mm x 52 mm			
Module Area	**20.8 ft2** 1.9m2				**24.6 ft2** 2.3m2				**29.83 ft2** 2.3m)			
Module Weight	**94.4 lbs** 42.82 kg				**110.5 lbs** 50.1 kg				**131 lbs** 59.42 kg			
Solar Cell	Monocrystalline Bifacial 166 mm x 166 mm				Monocrystalline Bifacial 166 mm x 166 mm				Monocrystalline Bifacial Half Cut 182 mm x 91 mm			
Operating Temperature	- 40°C TO 85°C											
Maximum System Voltage	1500 V											
Maximum Type Fuse Rating	25 A											
Power Tolerance	- 3/+3%											
Front / Back Glass	Fully Tempered 3.2mm Low-Iron PV Glass											
Output Cables	Lead Length 500mm Staubli MC4 EVO 2 connectors											
Fire Rating	Class A / Type 29											
Certifications	UL 61730 IEC 61215 IEC 61730											
Warranty	10 Years Workmanship / 30 Years Linear Power Production											

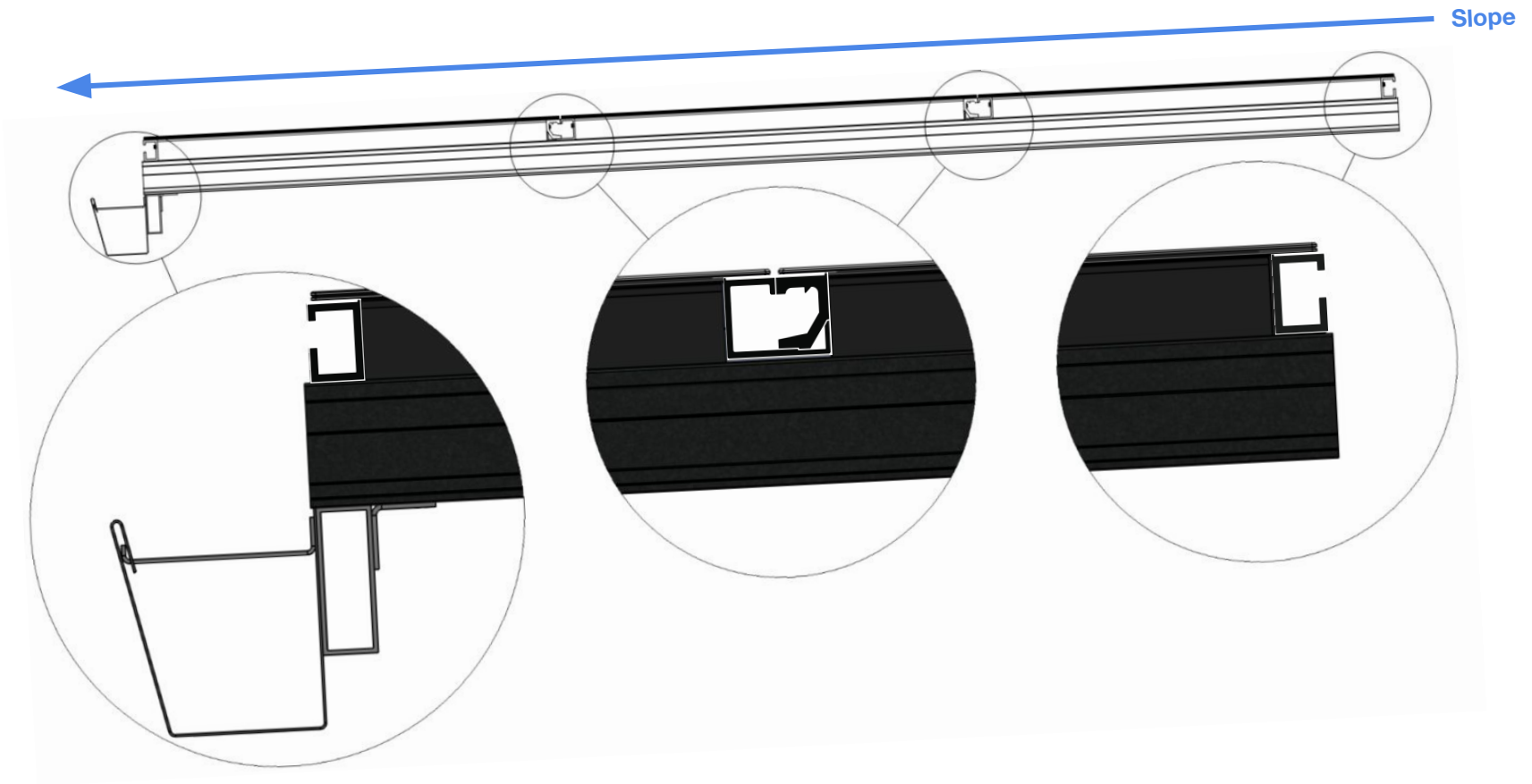
Temperature Coefficients	S	L	XL
Nominal Operating Cell Temperature (NOCT)	44.6 °C	44.6 °C	44.6 °C
Power Temperature Coefficient (Pmpp)	- 0.376% / °C	- 0.376% / °C	- 0.305% / °C
Voltage Temperature Coefficient (Voc)	- 0.322% / °C	- 0.322% / °C	- 0.198% / °C
Current Temperature Coefficient (Isc)	0.054% / °C	0.054% / °C	0.014% / °C

Electrical characteristics at standard test conditions (STC: 1000 W/m², AM 1.5, cell temperature 25 °C).

04 Vision W Frame System

WATERPROOF

Vision W frames interlock to form a mechanically waterproof array — no tape or field-applied sealant required. Vision W modules mount to a shared rail that serves as a gutter and wireway. Module layouts are provided to meet your projects' requirements. Custom non-functional modules can also be provided to fit any shape and create a contiguous, waterproof array.

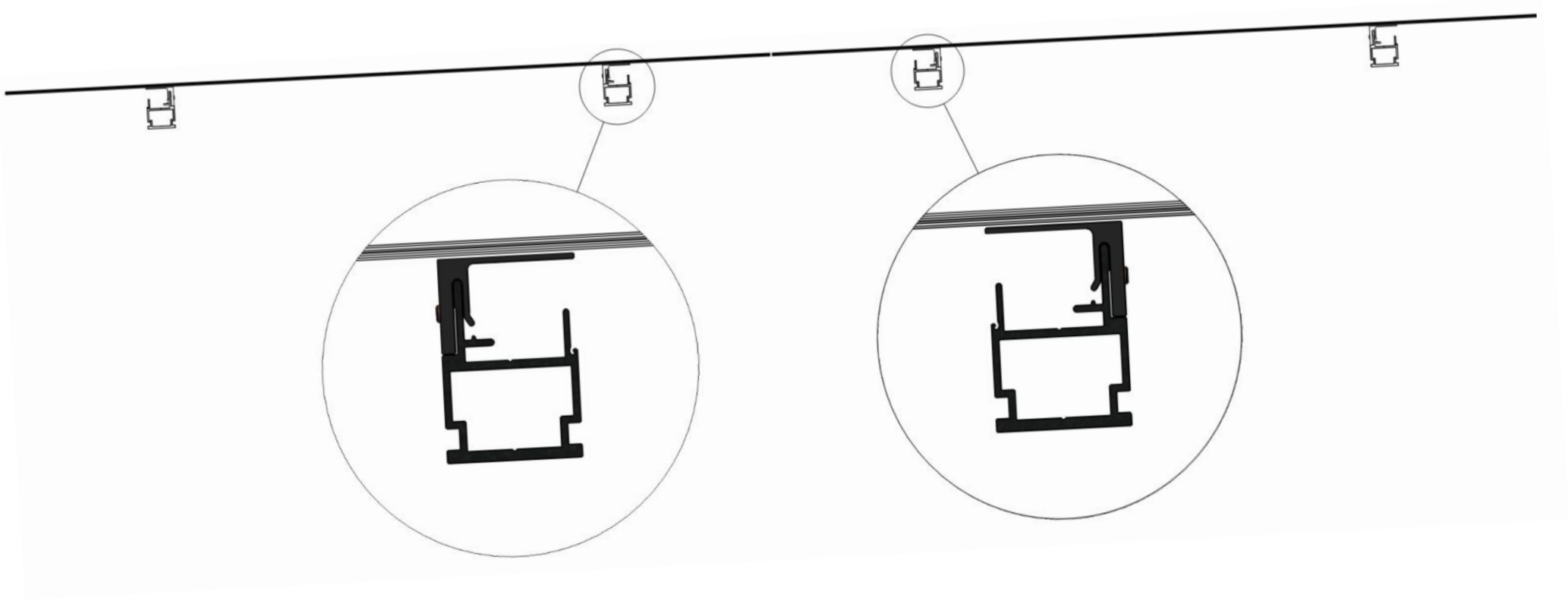


Aluminum extrusion · the shared rail doubles as a wireway · the short frame slots over the rail and is held by set screws.

05 Vision IM Frame System

OPTIONAL WEATHERPROOF

IM frames are ideal when you want to maintain a floating glass edge around the perimeter of the array or for non-contiguous layouts.
IM arrays can be weatherproofed using 3M 7070UV or Extreme Sealing tape to seal the joints between modules.

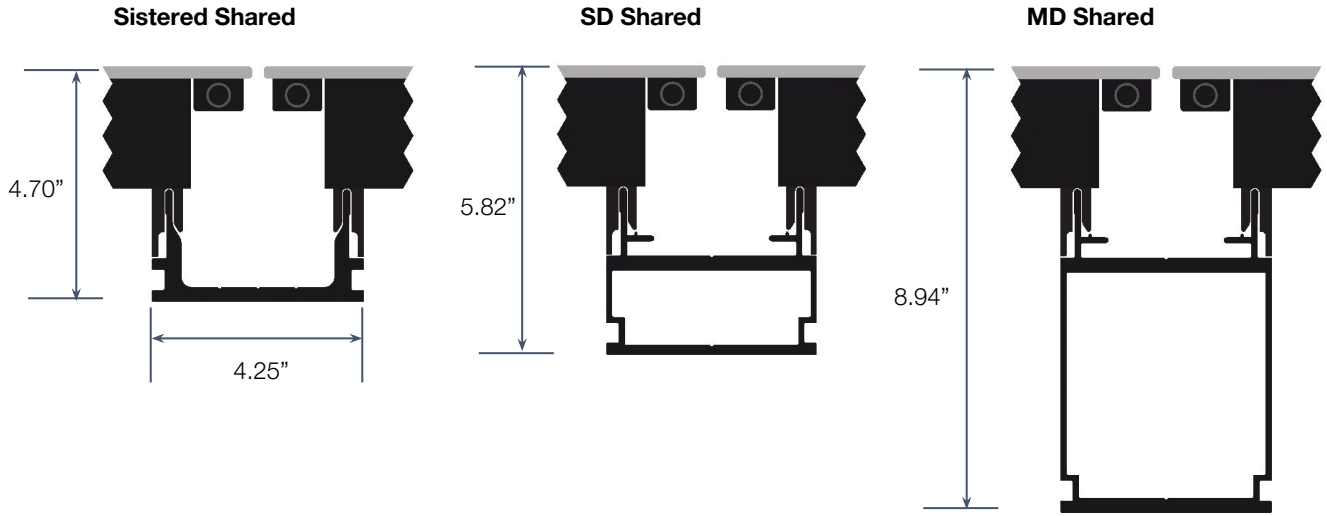


Aluminum extrusion · the shared rail doubles as a wireway · the short frame slots over the rail and is held by set screws.

06 Vision Mounting Rail

Vision modules are always mounted on the integrated Vision mounting rail system.

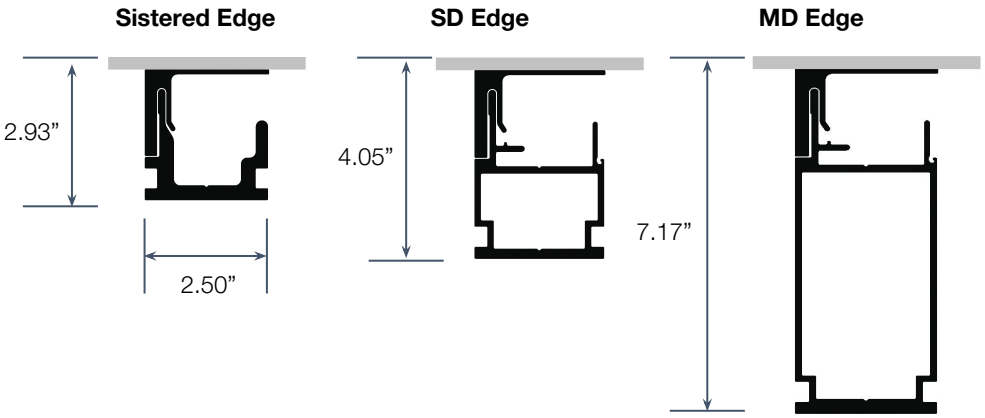
W Module Mounting Rail Profiles



SYSTEM PSF TABLE

Module Size	Sistered Shared	SD Edge	SD Shared	MD Edge	MD Shared
S IM		4.33		4.28	
S P	4.72		5.13		5.36
L	4.66		5.01		5.20
XL	4.55		4.83		4.99

IM Module Mounting Profiles



TYPICAL RAIL SPANS BY LOCATION

Location	Wind MPH	Snow PSF	Sistered	SD	MD
Honolulu	110	0	0'	9' 3"	20'
Los Angeles	110	0	0'	9' 3"	20'
Atlanta	115	5	0'	8' 9"	18' 6"
Denver	110	20	0'	7' 9"	16'
Miami	180	0	0'	7' 9"	15' 3"
Boston	130	40	0'	6'	12' 6"

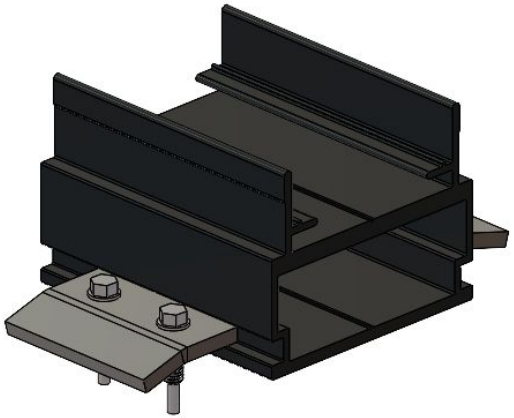
Representative maximum spans only. Refer to the project engineering letter for project specific rail spans, cantilevers and type-specified load rating.

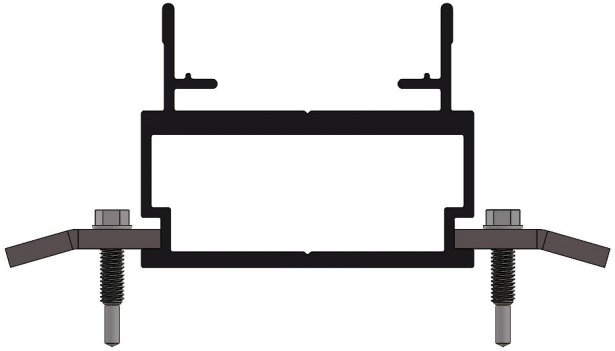
07 Vision Rail Attachment

Vision rail can be installed using a variety of methods depending on the project requirements.

Rail Clamp

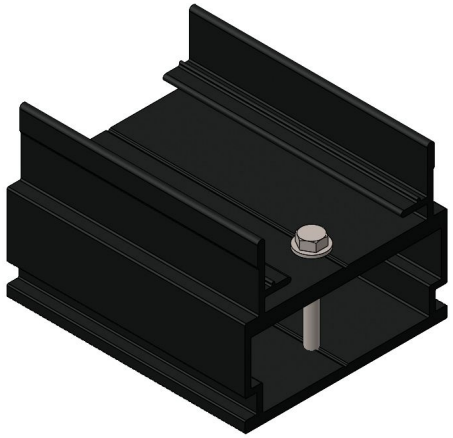
- Ideal for I-Beam attachment
- Installed with either self drilling screws or threaded fasteners

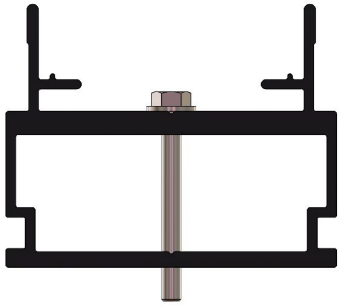




Direct Attachment

- Ideal for rail installation on narrow or closed (HSS) members
- Installed with either self drilling screws or threaded fasteners





LUMOS

The art of solar

401 East 124th Avenue
Thornton, Colorado 80241
(303) 449-2394
info@lumossolar.com
www.lumossolar.com

SPEC SHEET · v2026.1 ·US PATENT 20230030508A1