Tech Brief

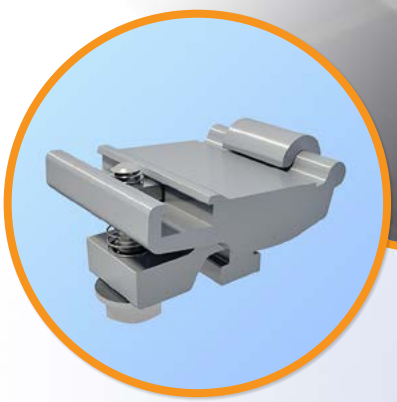
IRONRIDGE

Eclipse Hidden End Clamp

Keeping Solar Clean & Sleek

Most solar installations use mounting rails and fasteners to secure modules to the building structure, but these clamping components can protrude from the sides of the modules and give arrays a coarse look.

Eclipse is an end clamp that stays hidden, out of sight, while securing solar modules flush to rail ends. This creates a clean and sleek appearance that homeowners are fond of. Eclipse works with nearly all solar modules and installs with a simple 7/16” socket, as does the entire XR Rail® system.



Anodized & Pre-Assembled

Eclipse arrives with a clear anodized finish to protect against corrosion. It also come pre-assembled, so there are no loose parts. Clamps can also be installed on either side of rail.

Certified to comply with International Building Code, ASCE/SEI-7, and UL 2703 Mechanical and Bonding Requirements.

Eclipse Installation

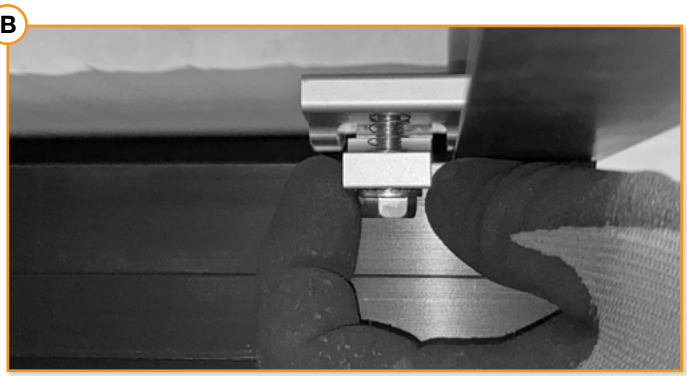
A 7/16” socket wrench is required. A cordless ratchet and crescent wrench can be helpful.

A. PLACE ECLIPSE

Align Eclipse and slide into the top channel of the XR Rail® far enough to clear the module frame. Orient Eclipse so the bolt is on the flat side of the rail. The bolt head should face towards the roof.

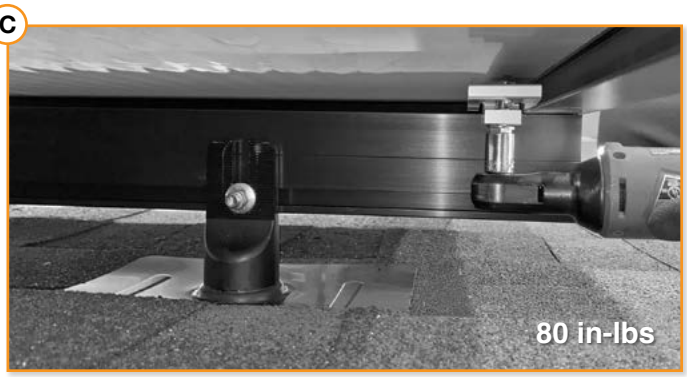
B. SLIDE ECLIPSE

Place module on rails, then pull the Eclipse towards the module frame so the upper part of the Eclipse is resting on the module flange.

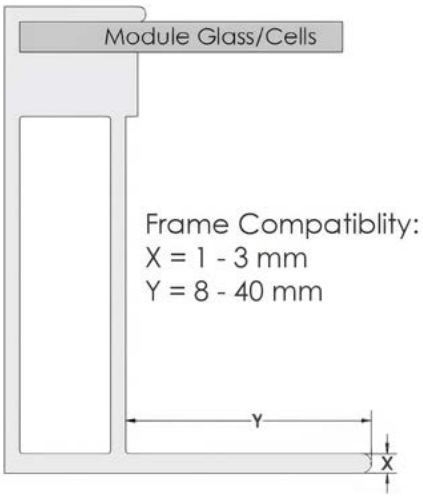


C. SECURE ECLIPSE

Secure the module by tightening the hex bolt with a 7/16” socket to 80 in-lbs. A cordless ratchet tool can speed up installation. A ratcheting crescent wrench may work better in tight spaces.



Tested & Certified



Listed to UL 2703

Eclipse conforms to UL 2703 requirements and fits modules with bottom flanges that meet specifications shown in the frame compatibility diagram on the left.

See our XR Flush Mount Installation Manual for full ratings and a list of certified compatible modules for XR Rail® on pitched roofs.

Intertek

NOTE: Eclipse is not a bonded end clamp. When installing a standalone module, each rail will need a grounding lug—as well as the module.