

Xiamen Rescom technology Co., Ltd

Asphalt shingle mounting bracket installation manual





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INTRODUCTION

The RESCOM solar asphalt shingle flashing system is specifically designed for waterproof installations on asphalt shingle roofs.

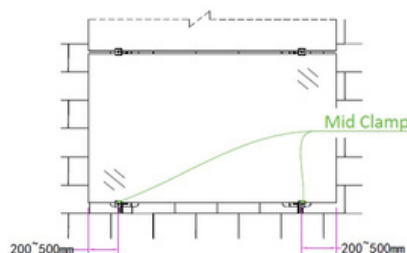
With this system, panels can securely be anchored on existing or new roofs WITHOUT long rails.

SAFETY PRECAUTION

- A. Read the installation manual and design drawing carefully before installation, and be familiar with installation method and process
- B. Before entering the construction site, construction safety, fire control knowledge education and assessment work must be carried out, those failed the assessment will not be allowed to participate in the construction
- C. Always wearing safety helmet and fasten the strap, and using the labor protection articles properly
- D. Wearing slippers, high heels, barefoot or shirtless are not allowed to enter the construction site
- E. Hard-soled shoes are forbidden when working at heights
- F. Safety belts must be fastened, if there are no safety facilities at the height of 2m above. The safety belt must be fastened before work
- G. Working materials and tools must not be thrown up or down.
- H. Electric mechanical equipment must have leakage protection device and protective connect to neutral
- I. Brackets may have sharp frame corners, use of stab-proof gloves and goggles are recommended

NOTICES

1. The supporting points should keep 200-500mm distance from the module edge

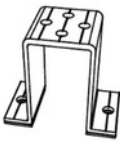
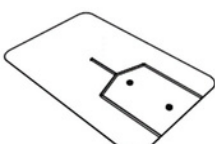
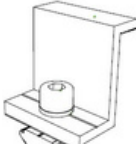
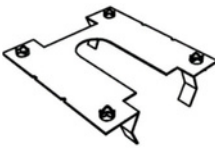


2. The roof must be in good condition and strong enough to support the weight of the modules, including the additional equipment, wind and snow loads.
3. Design and specification of the product to change without notice

INSTALLATION TOOLS

		
Stab-proof gloves	Allen key wrench(M8)	Stud finder
		
Cordless drill	Hex socket(M8)	Tape measure
		
Caulk gun and silicon sealant	Roofing bar	Chalk line or laser

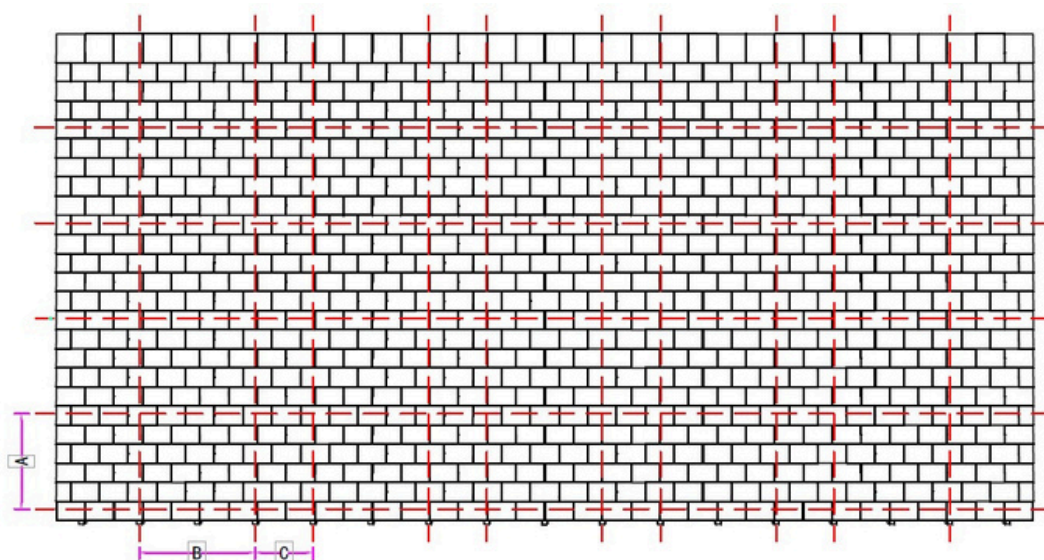
SYSTEM COMPONENTS

			
Rapid rail	U support	Flashing	End clamp
			
Mid clamp	Earthing clip	Grounding lug (Optional)	

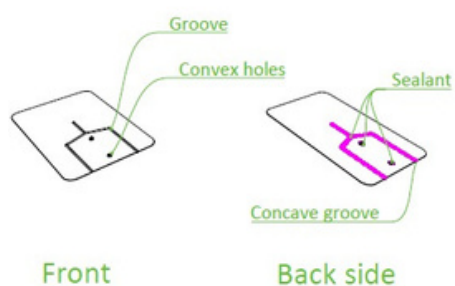
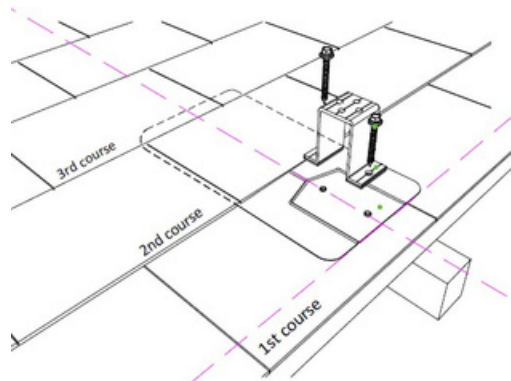
BRACKET INSTALLATION

1. Locate, choose and mark the center of the rafters and snap vertical and horizontal lines to mark flashing location

Note: decide A by module width, and adjust B&C by module length

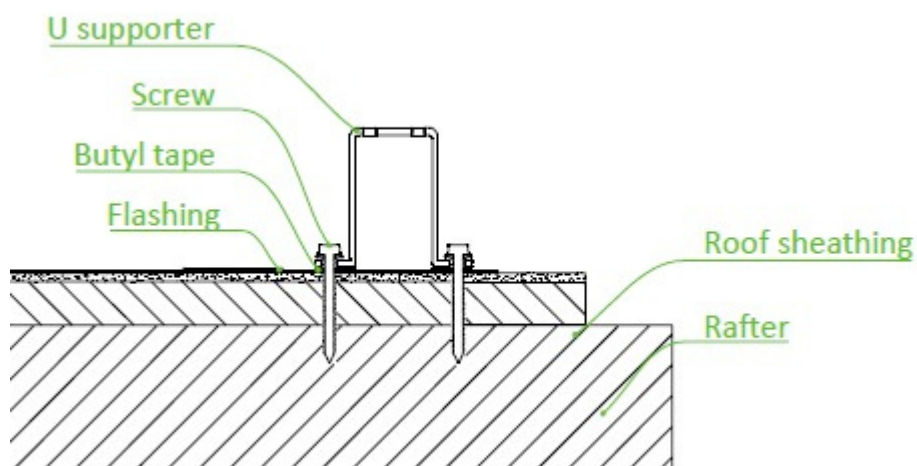


2. Slide flashing between 1st and 2nd course, at least 3/4" above the edge of the 3rd course.

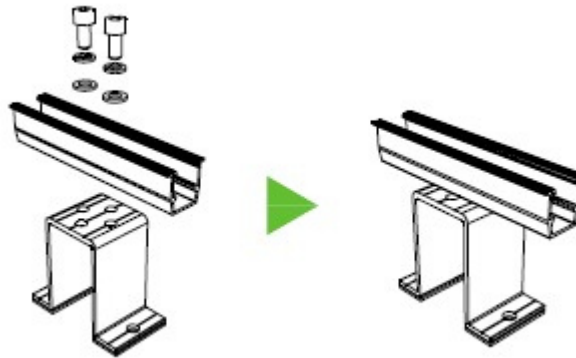


Note: for better waterproofing, apply sealant as shown

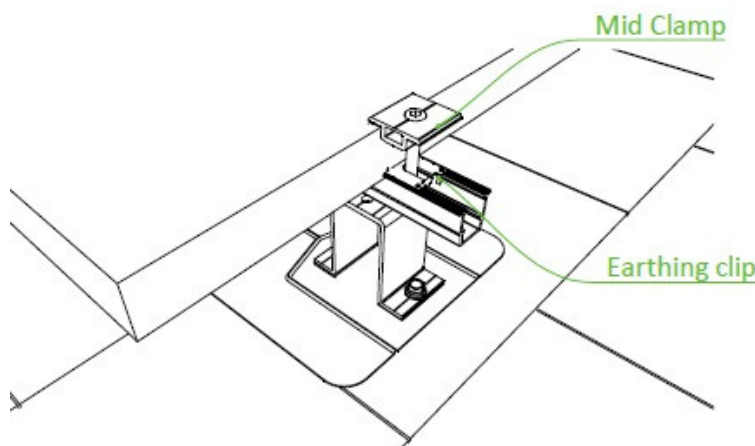
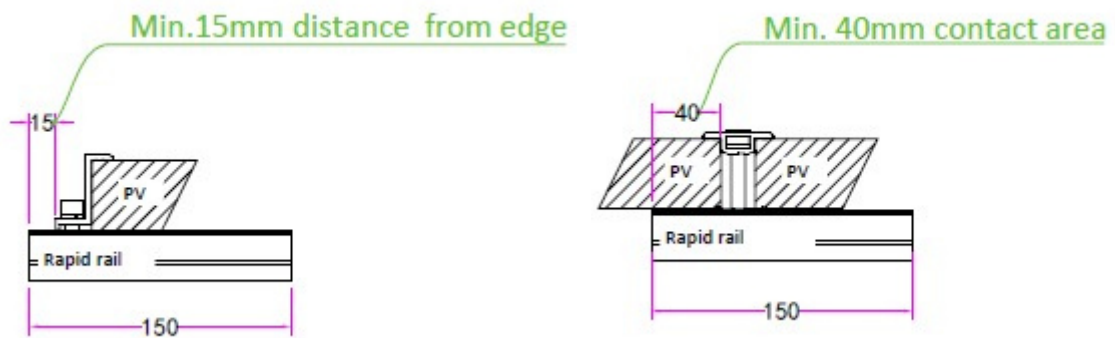
3. Attach the U supporter to the flashing by self-tapping screw provided. Make sure to drill square to the roof surface.



4. Bolt the rapid rail onto the U supporting by the M8 bolt provide.
Torque is 13-15 Nm.



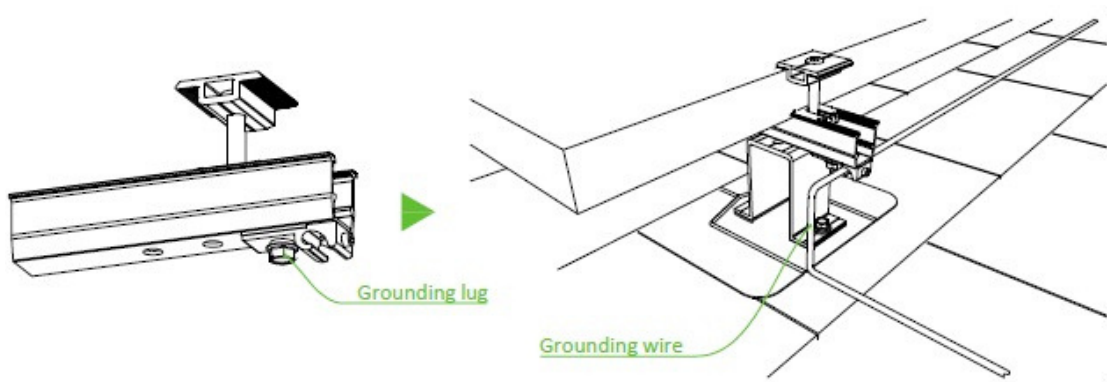
5. Proceed with the mounting of PV modules with mid clamps and end clamps
For end clamp, min.15mm distance from rapid rail edge
For mid clamp, min. 40mm contact area required



Put earthing clip
between modules
and rapid rails for
grounding path.

6. Grounding lug installation (optional)

For connecting individual module for grounding, attaching grounding lug to rapid rail and connecting with wire.



You can also simply bolt the bonding wires to adjacent modules by self-tapping screws for grounding.