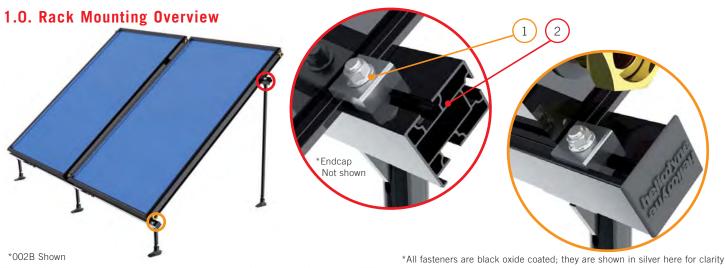


INSTALLATION GUIDE

RACK MOUNTING



1. MOUNTING HARDWARE





1.0.1. RACK Replacement Parts

ITEM	CODE	PART NUMBER	DESCRIPTION	QUANTITY
1	CLIP 000 000B	40082-B	Gobi Rail Clamp, 3/8-16 x 1" SS Serrated Flange Bolt & Nut (set of 4)	1 / Gobi
2	RAIL 001 000B RAIL 002 000B	40092-B 40090-B	2x51" Gobi Mounting Rail with end caps, 1xCLIP 000 000B set 2x102" Gobi Mounting Rail with end caps, 2xCLIP 000 000B set	See Note 1
3	RACK 000 004B RACK 000 001B RACK 000 002B RACK 000 003B	40098-B 40081-B 40080-B 40093-B	Commercial Rack Mount, 4" Front Leg, 67" Rear Leg (I-Beam foot) Flat Roof Rack Mount, 4" Front Leg, 47" Rear Leg Flat Roof Rack Mount, 8" Front Leg, 47" Rear Leg Flat Roof Rack Mount, 4" Front Leg, 67" Rear Leg	# Gobi + 1 ⁴
4	RAIL 000 001	40089	Splice Kit for Joining Rails (Includes 2 for upper and 2 for lower rail)	1 Kit

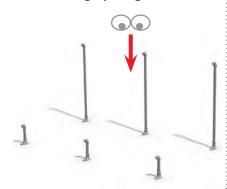
- ^{1.} Order minimum quantity of rails that will accommodate number of collectors in array.
- ^{2.} RACK 000 00X Kits require field assembly.
- 3. Racks are not for tilts greater than 45°

^{4.} May not be appropriate for site penetration and or loading conditions. Consult a structural engineer for advice on proper securing hardware for your installation.

RACK MOUNTING INSTALLATION

1.1. Rack Installation

1.1.0. Rack Leg Spacing

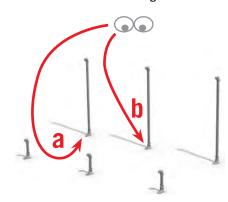


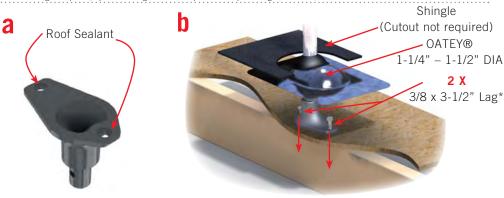


- 1. Spacing for tilt is independent of collector size.
- 2. For other tilts the distance between front and rear mounting points = 2. For other tilts the distance between front and rear mounting points = Tan (Gobi Tilt Angle)
 3. When using rail splices, space rack legs to ensure splices line up with legs (sec 1.1.4).

(Rear Leg Height - Front Leg Height)

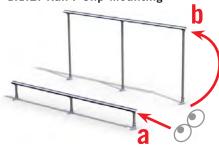
1.1.1. Rack Foot Mounting

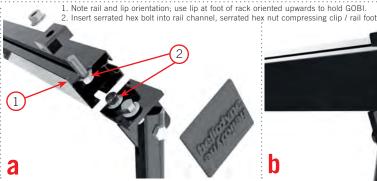




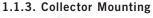
*While lag screws are provided with most kits, consult the American Wood Council NDS 2005 for proper lag screw specifications, or verify with a certified structural engineer, for each specific roof site. Heliodyne is not responsible for mounting anchor integrity.

1.1.2. Rail / Clip Mounting



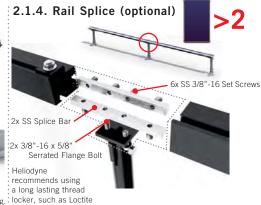






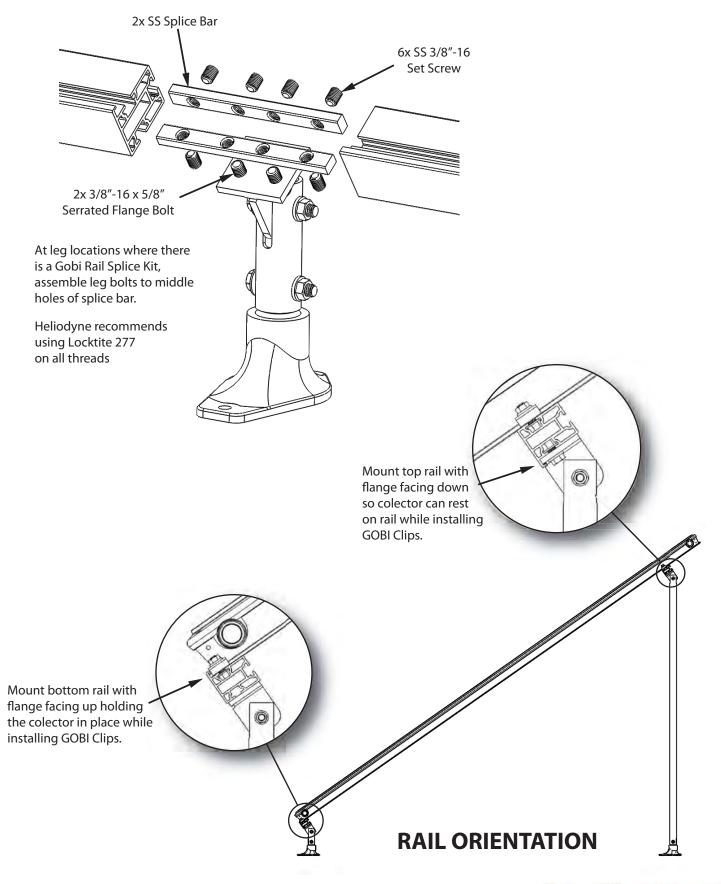


- 3. Brace rails for first collector
- 4. Place first collector and install all (4) Helio-Clips.
- iga long lasting thread in the locker, such as Loctite Do not use thread lock or sealants.

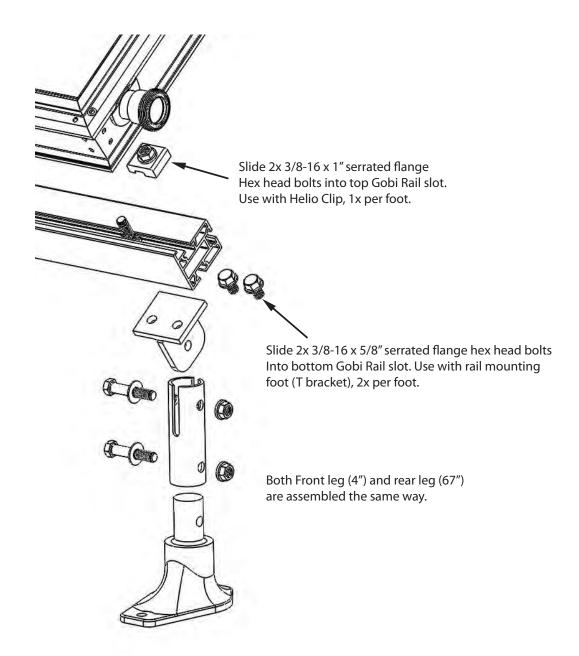




SPLICE KIT DETAIL







LEG ASSEMBLY



Horizontal mounting rails come in two lengths, 102" and 51".

The combination of rails vary dependent on amount of collectors in each Array configuration. For example a 3 Collector Array will consist of a 102" rail, 51" rail, and a Splice Kit. A 4 Collector Array will have 2 -102" rails, and a Splice Kit. A 5 Collector Array will consist of 2 -102" rails, 51" rail, and 2-Splice Kits. There are 2 rows of rails, top and bottom. Same rail assembly applies to both top and bottom.

