



1. Determine the locations needed for the Eco-65 brackets.
2. Place base plate (#3) on finished roof deck material.
3. Trace around the plate (#3) and mark the fastener hole locations using an appropriate marking tool.
4. Set base plate (#3) aside.
5. Using a 1" spade bit, drill eight, 1" holes through the roof membrane (#2) and insulation (#1) down to the steel deck (#5).
6. Insert ferrule material (#9) into the holes drilled in the previous step. Ferrules should rest on steel deck and be flush with top of roof membrane (#2). Mark for length (or simply measure with a tape measure). Cut ferrules to proper length for all eight holes. These should be field cut to account for variations in the steel deck.
7. Fill any voids in and around ferrules (#9) in an appropriate manner that is approved by the roof membrane manufacturer to prevent thermal bridging.
8. Replace base plate (#3) and secure it to the roof using 8 fasteners (#4) of an appropriate length.
9. Prepare the target patch (#10), by cutting a piece of membrane that matches the roof to size. The target patch (#10) is typically 12" x 12" but may be larger depending upon the roof membrane manufacturer's requirement. Punch two 5/16" holes in the center of the patch. These holes should be undersized to provide a tight fit around the 5/16" studs in the base plate (#3).
10. Apply a thin bead of acceptable sealant around the base of the threaded stud protruding from plate (#3).
11. Apply target patch (#10) over base plate (#3) following techniques specific to the roof membrane. This step should only be performed by a contractor who has been certified in the application of the membrane in question. (This step may be omitted by some roof membrane manufacturers. Check manufacturer's acceptable details before installing.)
12. Place compression plate (#6) over threaded studs.

