PODS Steel Retro Roof Installation Instructions



Tools Needed:



- Drill
- 3/8” Impact Driver
- 19/64” Drill Bit (Heavy Duty, Order Through PODS Parts & Service) –RDB101
- 21/64” Drill Bit (Heavy Duty, Order Through PODS Parts & Service) –RDB100
- 9/16” Socket
- 3/4” Socket
- #3 Phillips Bit
- Torque Wrench (Range of 10-50 foot lbs. and 100 to 600 inch lbs.)
- Pry Bar
- Dead Blow Mallet
- Caulk Gun
- Scraper

Materials Needed:



- 16’ Steel Roof - PPL116STL-1
- 12’ Steel Roof - PPL112STL
- 7’ Steel Roof - PPL108STL
- Steel Corner Bumpers (4) – PFA119
- Self-Tapping Screws 3/8” x 2” – (8) - PFA113
- Flat Head Screws (8) – PFA121 (Fastenal #1132511)
- Plastic spacers: PFA115 - ½”, PFA116 - ¾”
- Loctite 243 Thread Locker

Personal Protective Equipment:

- Steel Toed Shoes
- Safety Glasses
- Bump Cap
- Cut Resistant Gloves
- Hearing Protection
- Full Face Shield



Steel Roof Installation Procedure:

1. Using an impact drive and ¾” socket, remove roof bolts from plastic roof and lift plastic roof off container with a forklift.



Steel Roof Installation Procedure:

2. Scrape old roof tape off container.



Steel Roof Installation Procedure:

3. Remove the dome straps and springs from the top of the beams.



Steel Roof Installation Procedure:

4. Caulk the gaps on the top 2 corners of the header.



Steel Roof Installation Procedure:

5. Carefully place steel roof on container.



Steel Roof Installation Procedure:

6. Cor-Ten steel exhibits superior corrosion resistance over regular carbon steel as a result of the development of a protective oxide film on the surface that provides a unique rustic appearance. The layer protecting the surface develops and regenerates continuously when subjected to the influence of the weather. Thus Cor-Ten needs not to be treated in any way prior to installation for longevity.

Note: If a market would like to touch up an area of the protective oxide film to maintain a white appearance, then follow the illustration steps below making to sure to clean the surface with only soap and water to ensure the protective coating is not removed.

Materials Needed:

1. PODS Cleaner
2. Rustoleum Gloss White Spray Paint
3. Rag

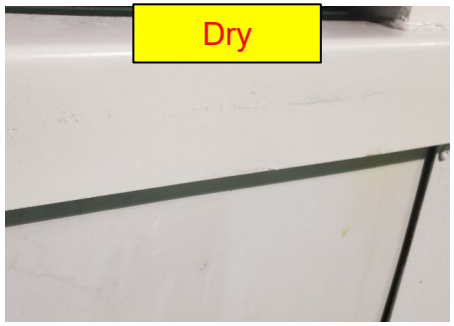












Steel Roof Installation Procedure:

7. **VERY IMPORTANT:** Roof must be centered on all sides. Use a crowbar and appropriate spacer to allow for equal space “side to side” & “front to back”.

Note: There is slight variance in the widths of containers requiring the appropriate selection of spacer size. Make sure spacer is removed before drilling holes.



Steel Roof Installation Procedure:

8. Place a secondary container, totaling a minimum of 5,000 lbs., directly on top of container being repaired and complete an internal visual inspection to ensure gasket is fully compressed.

Note: The 5,000 lb. or greater weight is required to properly compress the gasketing and place the steel roof in the correct location for drilling & mounting the roof to the frame.



Steel Roof Installation Procedure:

9. Drill 21/64” holes into the frame of the container. They should be drilled using the pre-punched holes in the sides of the roof as a guide. A 21/64” drill bit **MUST** be used to drill the holes through the angle steel and post.

Note: If the hole is not drilled using a 21/64” bit, the roof will not stay attached to the container. The hole being drilled **MUST** be a perfect 21/64” circle and not elongated. Make sure you hold the drill straight. The use of water mist on the bit from a spray bottle will make the drilling easier.

Note: Do not drill holes for steel corner bumper in this step.



Steel Roof Installation Procedure:

10. Select the proper length spacer to use. Photo illustrates steel corner bumper, pan head corner screw and hex head bolt, along with the ½" & ¾" spacers.

Note: There is slight variance in the widths of containers requiring the appropriate selection of spacer size.



Steel Roof Installation Procedure:

11. Apply a small amount of Loctite to the threads before installation.



Steel Roof Installation Procedure:

12. Using an impact drive, install bolts on all sides of container with correct size spacers inserted between the roof and angle iron to ensure a tight fit.

Note: All hex bolts **MUST** be torqued to 25 ft. lbs.

Note: Do not install steel corner bumpers and hardware in this step.



Steel Roof Installation Procedure:

13. Using a dead blow mallet, adjust corners to close gap between the sides and the ends of roof.



Steel Corner Bumper Installation Procedure:

Note: If corner holes are pre-punched in roof, move to next step.

14. Hold steel corner bumper in position as a guide and drill a 21/64” pilot hole through roof only.

Note: Do not drill through container frame during this step or the mounting screw will not fit properly.



Steel Corner Bumper Installation Procedure:

15. Once pilot hole is complete, drill a 19/64” hole through container frame for mounting screw.



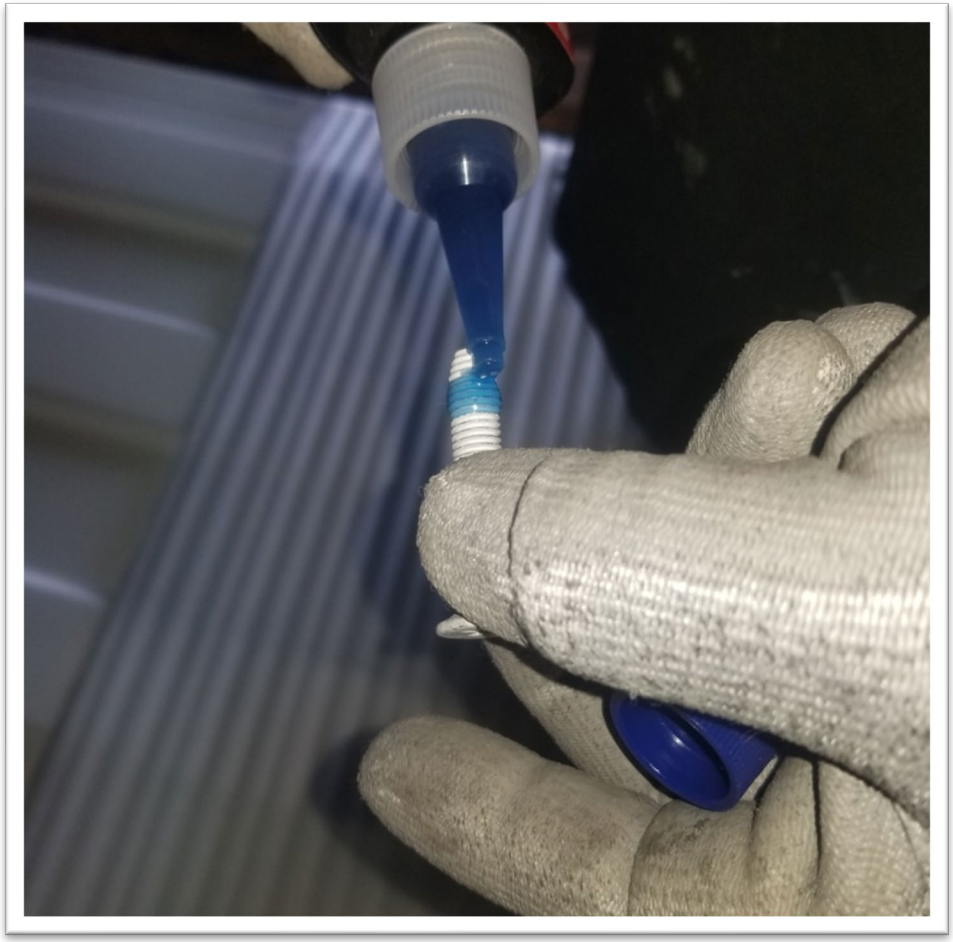
Steel Corner Bumper Installation Procedure:

16. Slide a ½” spacer between the roof and frame and align with hole.



Steel Corner Bumper Installation Procedure:

17. Apply a small amount of Loctite to the threads before installation.



Steel Roof Installation Procedure:

18. Using an impact drive with #3 Phillips bit, install corner steel bumpers on all 4 corners of container using the pan head screws.



Steel Roof Installation Procedure:

19. Print out the Steel Roof Addition Form on the next page and email the completed form to assetmanagement@pods.com. This will enable the system to identify a container that has a steel roof.

Steel Roof Addition Form:

Steel Roof Addition Form

Market #: _____ Market Name: _____

Warehouse: _____

Submitted by: _____

Contact Phone #: _____

Please submit this form to Fixed Assets within a week after putting on the Steel Roof.

	Container ID:	Container Serial #:	Roof #:	Date Installed:
Line 1:				
Line 2:				
Line 3:				
Line 4:				
Line 5:				
Line 6:				
Line 7:				
Line 8:				
Line 9:				
Line 10:				