



Repair Standards

02-007 – Reefer Roof Patch

Disclaimer:

Only a certified and experienced person using suitable tools should complete the repairs described below. Repairs should meet or exceed manufacturer's minimum specifications and should be in agreement with all safety and ecological regulations.

Permissible upon return and does not require repair:

- Acceptable repairs.

Requires repair upon return:

- Holes, breaks or cuts in the roof of the reefer.
- Stress cracks greater than six inches in length.

Safety Measures:

- Take appropriate safety precautions when working with fiberglass, polyester, epoxy or acetone.
 - Eyes should be covered with goggles.
 - Face should be protected by an OSHA approved respirator mask.
 - Hands should be protected by gloves.
- Take appropriate safety precautions when working with resins and solvents.
 - Read caution labels on each product used, in every use.
 - Never smoke or use tools that create sparks while making repairs to interior liners.
- Be sure that there is enough air circulation while working inside the trailer, without proper ventilation fumes could build up and cause harm.

Note:

- Roof patches can be no more than 24" x 24" (576² inches).
- There can be no more than one roof patch within a four-foot area of the roof.

Procedure:

1. For stress cracks that are no greater than six inches, the ends can be stop drilled to prevent further cracking.
2. For stress cracks that are greater than six inches, take out the affected area and smooth the corners to keep cracks from extending. (the same process applies for all other damages to the roof)
 - 1) Replenish any lost insulation with a Polyurethane spray foam.



3. Add a plentiful amount of caulking to the areas being repaired.
4. Cut out a replacement for the damaged area from an aluminum roof material. Side panel material is not an authorized material to use for roof patches.
 - 1) When cutting the patch, be sure to leave three inches (on all sides) more than the size of the area being patched.
5. Secure the patch into place using 3/16" x 7/16" aluminum monobolt rivets. The rivets should be 1/2" from the edges of the patch and on 2" centers.
6. When the repairs are completed and all rivets are in place, caulk the tops of the rivets and the outside of the roof patch.