

Summary	Repair Air bubbles on insulated panels			
Products Affected	Turbo Seal Insulated			
Key Word Tags	Turbo Seal ,insulated , air bubbles, panel repair			
Tools/Equipment (If Required)	Hair dryer, utility knife, roller			
Parts/Materials (If Required)				
Related Media				
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Air Bubble Repair

Air bubbles are an obstacle when laminating film to foam. Every effort has been made to ensure this doesn't happen, however a rare panel will get through. The following steps are a means to correct this issue.

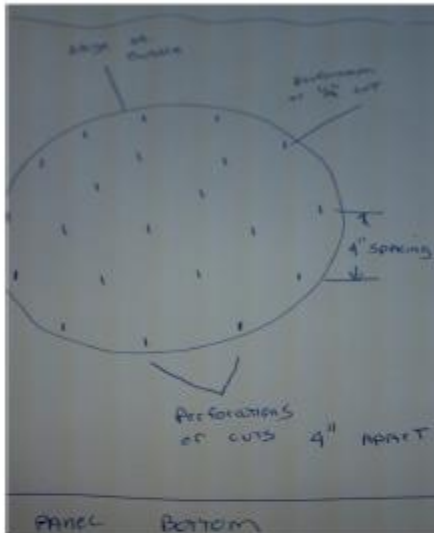
1. Clean the panel surface. We're working with adhesives, so eliminating contamination is important. A damp cloth and water, or household cleaner such as windex will work well.
2. Puncture, perforate or make small slits (1/4") in the film.
 - a. Use a utility knife, or metal pin roller for this. The urethane film is very durable, press hard. The foam underneath is closed cell, and the film does not propagate tears or punctures, so this will not damage the panel.



- b. When making slits, make sure they are vertical.
- c. For small bubbles (4" or less) just one or two slits are needed.

d. For larger bubbles:

- i. Make slits or punctures around the perimeter of the bubble, evenly spaced roughly 4" apart.
- ii. Puncture the center portion of the bubble roughly 3"-4" apart.



3. Use your fingers to push the air out of the bubble, as much as possible. Larger bubbles will be more difficult due to the film being stretched.
4. Once the air has been pushed out, heat the area with a hair dryer while pressing on the film with your fingers continuing to push the air out. The heat will do two things: It will reactivate the adhesive underneath the film, and it will help the film to contract. Keep your hand near the film. The film temperature shouldn't exceed 120F. (Coincidentally, our hands don't like being above 120F)



Any problems or questions, please contact Tech Support at 1-800-628-1909.