

NEW DOORS AND FRAMES



Tafco's newest design of doors and frames has a host of advantages when compared to other designs. Below are some of these advantages.

Door Improvements:

Fiberglass Reinforced Plastics (FRP) in the door perimeter transfers 475% less heat or cold than the Polyvinyl Chloride (PVC) it is replacing. Additional energy savings are realized when compared to doors and frames that use metal in their perimeters. FRP offers a stronger, more durable, corrosion and temperature-resistant product versus doors and frames containing metal and/or PVC.

- The connection strength of the backing plates to the door and frame has been increased, thus increasing the overall door and frame strength.
- FRP adds significant rigidity to the door, when compared to either steel or PVC perimeters.
- The new bottom sweep gasket has a built in retainer for easy replacement.
- The magnetic gasket design has been changed to add rigidity and durability.
- Available with a new heated door option for specifications that require it.
- Doors will function up to 200 degrees if ordered with high temperature gaskets.

Door Frame Improvements:

- The new pressure relief port, standard on freezers, not only uses just 17% of the energy of the old standard, but actually equalizes the box faster than before.
- Standard toggle switch and dial thermometer has been replaced with a switch with a built-in digital thermometer.
- All wiring is pulled to one point for ease of installation.

Additional Energy Saving Options:

- LED lighting uses 50% less energy, generates 87% less heat, and last up to 6 times longer than compact fluorescents.
- Vinyl strip curtains reduce infiltration rates by 75% and vinyl strip doors reduce them by 95%*
**(Numbers from the Refrigeration & Thermal Test Center of Southern California Edison).*

Switch Features & Options:

Motion Sensor Switch

- Lighting only stays on when the box is occupied.

Alarm and Light Manager

- Notifies if door is left open or temperature in box rises too high or low.
- Turns lights on when door is open, and off by timer with a flashing notification before they go out.
- Comes with battery backup, has built in buzzer, plus alarm contactor.
- Options include: panic alarm, external strobe light, external buzzer, gas leak detector, refrigeration current monitor, and remote auto-dialer.

Future Enhancements:

- New Optional FRP Kick Plates on Doors and Frames.
- At Tafco, we will be evolving to brushed hardware, in both doors and frames, in the near future.



NEW THRESHOLDS



Additional Features & Benefits of FRP Frame:

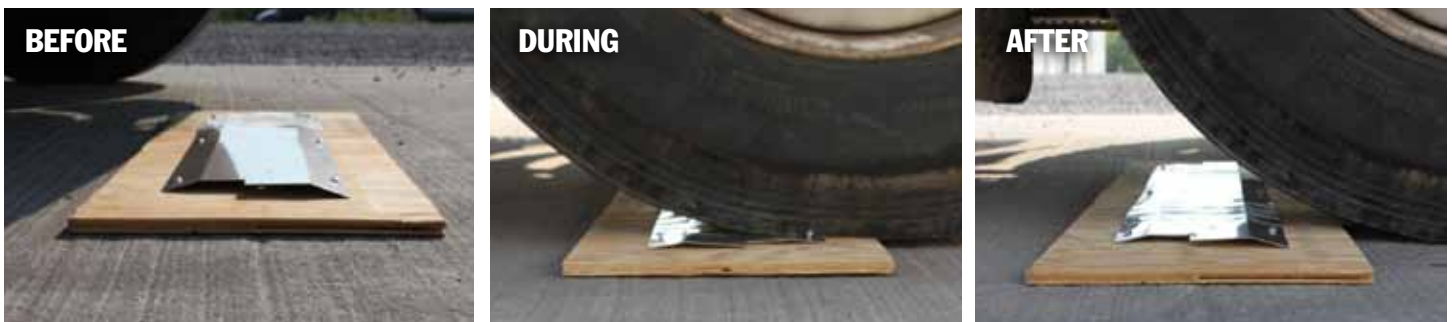
The FRP frame reduces thermal conductivity by over 500% allowing for no heat to be used in the frame for coolers. This results in an annual energy savings of over \$93 per year at .11/kwh average national commercial electric rate. This also allows for no sills to be required for boxes without floors and, therefore, a smooth entry into boxes.

The new FRP frame, with our new PVC sill plate, allows the heat of the frame to be reduced significantly, resulting in about a 50% savings. The new sill plate transfers 84 times less heat than the old stainless steel plate and, at the same time, handles weight better since it can flex more than a steel frame.

PVC Threshold



Stainless Steel Threshold



The pictures above depict the relative strength of the PVC Threshold vs. the Stainless Steel Threshold.

We first anchored both types of thresholds to a board as shown in the “before” photos. We then proceeded to drive our 12,100 pound box truck over both thresholds as shown in the “during” photos. As you can see in the “during” photos where the truck tire is on top of the thresholds, the PVC slightly deflected but the stainless steel flattened out almost completely. Also, as shown in the “after” photos, the PVC fully recovered, but the stainless steel only partially recovered. This extreme test shows that the PVC threshold outperformed the stainless steel threshold.



In our continuing efforts to improve our product offerings, information presented here may be subject to change at any time. Revised 02/11