

# BUFFERS USA



BUFFERS USA, INC.  
10180 New Berlin Rd.  
Jacksonville, FL. 32226



(904) 696-0010

FAX (904) 696-0019

e-mail [sales@buffersusa.com](mailto:sales@buffersusa.com)

“The Intermodal Hardware Specialists”

## Therm-Cool®

### Thermal Insulated Bulkhead

Product Information and  
Installation Instructions

*The economical solution that enables shipping of  
Frozen and Chilled products in the same container.*

# Therm-Cool<sup>®</sup> Bulkhead

- The Therm-Cool<sup>®</sup>, Thermal Insulated Bulkhead, is a one-time-use disposable product that allows shippers to ship both frozen and chilled products in the same refrigerated container or trailer by dividing the container or trailer into two compartments.
- There are 2 models: One for 40' refer containers and one for 53' domestic refer trailers.

# Container / Trailer Preparation

- NOTE: The following pages are for illustration purposes only.
- In an actual installation you would:
  - “Pre-chill” the container or trailer
  - Load the frozen cargo first
  - Install 2 pallets vertically as a spacer between the frozen cargo and the bulkhead
  - Then install the Therm-Cool<sup>®</sup> Insulated Bulkhead.

# Therm-Cool® Bulkhead, 40'



- Model 1577 bulkhead installed in a 40' refer container.
- Shows laminated insulating panel.
- Laminated floor barrier material.
- Foam blocks not shown.

# Install Foam Blocks



- Start at the spacer pallets and install the foam blocks.
- 36 blocks are shipped with each bulkhead.
- There are 36 floor rail slots in each container.

# Install the Bulkhead



- Place the bulkhead in the container with the “bottom edge” on the foam blocks
- Position the bulkhead so it opens and rests on the “side edges”.

# Install The Bulkhead Cont.



- The edge flaps should fold into place as shown at left.
- Be sure to check both sides for proper fit.

# Install the Bulkhead Cont.



- Gradually lift the bulkhead into place.
- The “spacer pallets” will prevent the bulkhead from sliding.
- Leave the laminated floor barrier material on the floor.



# Install the Bulkhead Cont.



- When almost completely vertical the top flap will start to fold over.
- This top flap then forms a gasket between the ceiling and the bulkhead.

# Install the Bulkhead Cont.



- Unfold and spread out the laminated floor cover material.
- Be Easy! Do Not pull too hard or it may come unglued from the bottom of the bulkhead.

# Install the Bulkhead Cont.



- The floor cover material should extend to the side walls.
- The floor cover along with the foam blocks prevent freezing air from circulating under the bulkhead into the chilled section.

# Installation Cont.



- Both ventilation cutouts should be removed to complete the installation.
- The resulting air vents are designed to maintain 0° F in the frozen side and 36° F in the chilled side.

# Installation Complete



- You are now ready to load your Chilled Cargo.
- Laminated floor material is tough enough to load pallets with a forklift without tearing.

# Current Applications

- The Therm-Cool<sup>®</sup> Insulated bulkhead is used by several shippers to provide consolidated refrigerated freight service for:
  - Wendys
  - McDonalds
  - Pizza Hut
  - and several other companies from Florida to the Caribbean and Central America.

# Available Models

- Model 1577, Insulated Bulkhead for 40' Refrigerated Containers
  - Packed 13 pcs. on a pallet
  - Includes 36 pcs. foam blocks per bulkhead
- Model 1677, Insulated Bulkhead for 53' Refrigerated Trailers
  - Packed 13 pcs. on a pallet
  - Includes 36 pcs. Foam blocks per bulkhead

# Manufactured and Distributed by:

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- Minimum order is 13 pcs.
- All orders shipped in multiples of 13 pcs  
FCA our warehouse, Jacksonville, Florida.
- Available from stock with 3 week lead time  
for production quantities of 65 pcs or more.