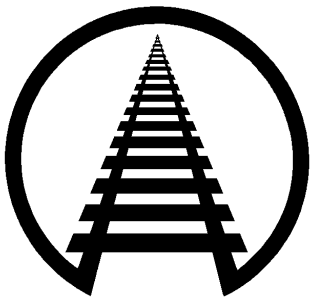
General Information Series No. 782

Plastic Intermediate Bulk Containers with Disposable Inflatable Dunnage Bags and Lengthwise Void Fillers – Schoeller Allibert

(New Closed Car Loading Guide, Part 7 Bulk Containers, Section 6.2)

Approved by
DAMAGE PREVENTION & FREIGHT CLAIM COMMITTEE
Association of American Railroads



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GENERAL RULES

The General Rules relating to personal safety and the safe operation of trains, contained in AAR Circular Nos. 42-L and 43-G or supplements thereto, issued by the Association of American Railroads, **must be observed**.

These loading rules and/or practices apply to shipments transported in the USA, Canada and Mexico.

The loading methods in individual closed car loading publications issued by the Damage Prevention and Loading Services Section of the Association of American Railroads are minimum standards that have been evaluated and approved. These minimum standards offer practical guidelines on the subjects covered. Since these are minimum standards, it may be necessary to supplement these methods in some instances.

Securement standards in AAR closed car loading publications are intended for safe transit of the rail car from origin to destination and prevention of lading and equipment damage. These standards do not address unloading practices.

This approval may be withdrawn if the loads using these methods exhibit consistent load failure during actual shipments.

Loading and bracing methods not presently approved may receive consideration for approval and publication under Section II - Evaluation of New Loading and Bracing Methods and Materials for Closed Cars, Trailers or Containers of ***General Information Bulletin No. 2, "Rules and Procedures for Testing of New Loading and Bracing Methods or Materials"****. Submit requests to Director Damage Prevention and Loading Services, AAR/TTCI, 55500 DOT Road, Pueblo, CO 81001.*

GENERAL

6.2.10 Plastic Intermediate Bulk Containers with Disposable Inflatable Dunnage Bags and Lengthwise Void Fillers – Schoeller Allibert

6.2.10.1 The following intermediate bulk container has been evaluated and found acceptable for use with this loading method:

Company	Container Description	Description
Schoeller Allibert	**CF 315** plastic intermediate bulk container	Plastic IBC, constructed of Polypropylene (PP), measures 48 in (L)×44.0 in (W)×46.7 in (H) and has a capacity of approximately 315 US gallons (1,192 liters) and a payload of 3,307 lbs (1,500 kg) when lined with a containment bag

6.2.10.2 This method is intended for plastic intermediate bulk containers filled with tomato products for loading in single-door boxcars with inside lengths of 50 ft to 50 ft 6 in. Figure 6.6 is an example of the load pattern. Some variation may be necessary depending on the number and size of plastic containers being loaded. The number of plastic containers actually loaded will depend on weight and order requirements.

6.2.10.3 The top cap of each bin is secured with two AAR approved 5/8 in. x 0.025 in. Type IV PET straps as shown in Figure 6.5.

Figure 6.5
CF315 IBC

6.2.10.4 If necessary, use 2 in. × 4 in. lumber or other suitable material at the ends of the car to square up bowed end walls.

6.2.10.5 Load plastic containers with longest side lengthwise to the car in each end. Load in two rows, each row against opposite sidewalls. Load and align all plastic containers corner to corner, tightly against the end walls and sidewalls. The top layer containers must be loaded to properly nest and interlock with the bottom adjacent containers.

6.2.10.6 Load the plastic containers in the doorway with their 44 in. dimension lengthwise to the car. Fill the lengthwise void in the doorway area with high-strength, honeycomb-panel void fillers (Figure 6.2) and pneumatic dunnage. Place void fillers 8 in. thick × 45 in. wide × 89 in. high between the last end-of-car plastic containers and the first doorway plastic containers. Typical loads will require two void fillers placed in tandem at one location and single void fillers at the opposite doorway area. Align void fillers with the last end of car plastic containers.

Plastic Intermediate Bulk Containers with Disposable Inflatable Dunnage Bags and Lengthwise Void Fillers – Schoeller Allibert

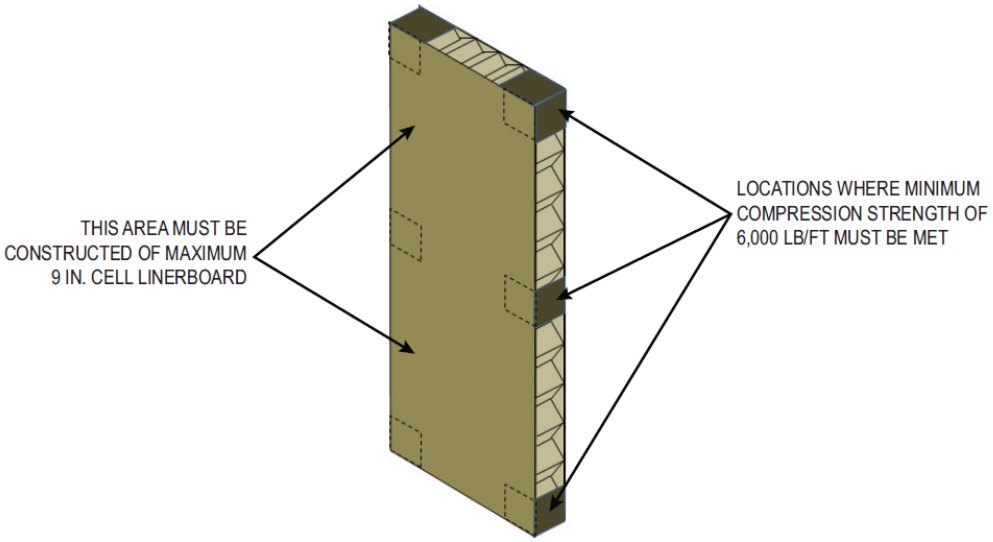

Figure 6.2 Reinforced longitudinal void filler

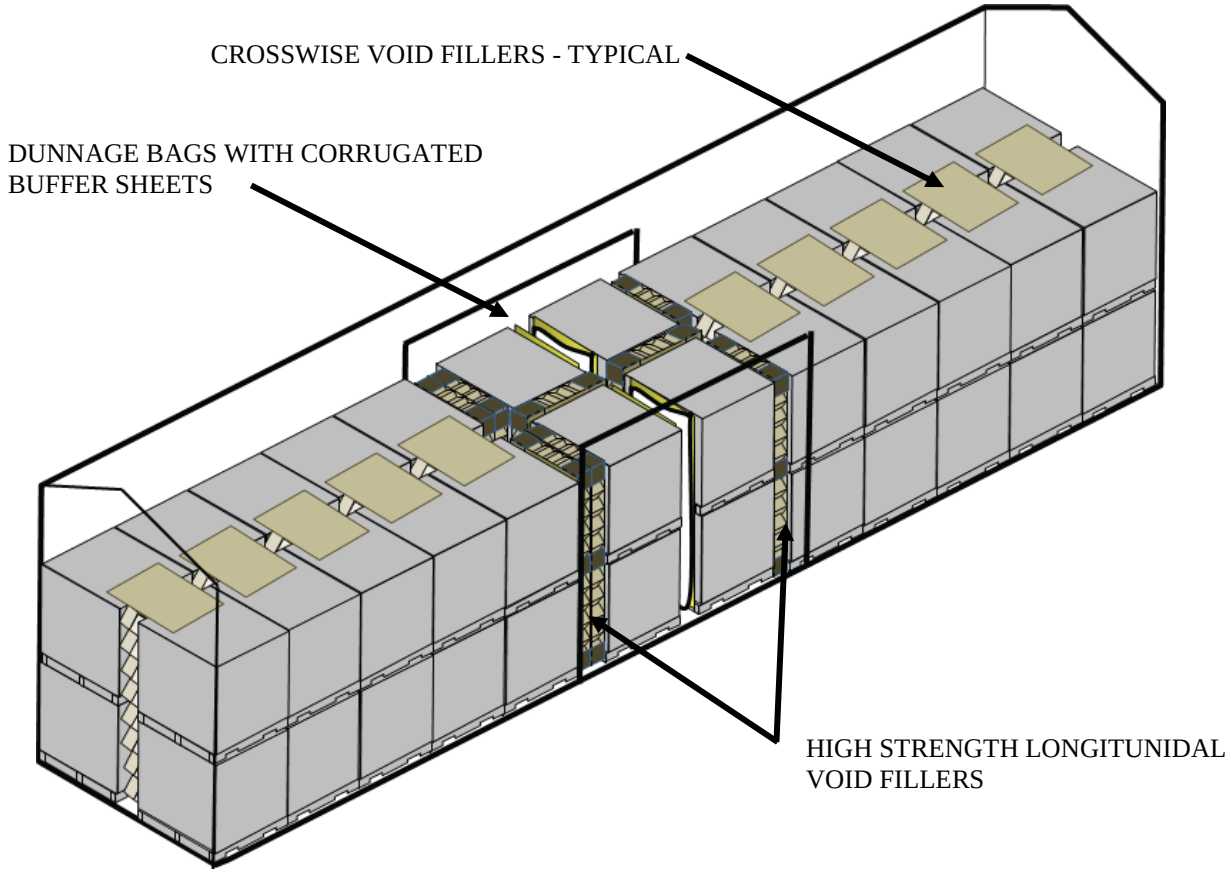

Figure 6.6
Plastic intermediate bulk container with dunnage bags

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6.2.10.7 Fill all crosswise voids at each end of the car with void fillers with a minimum compression strength of 500 lb/ft^2. Void fillers must fit tightly between the containers to prevent lateral shifting. Crosswise void fillers, drop-down filler type, must fully brace the top layer containers and 30% (minimum) of the bottom layer containers. Use high-strength honeycomb panels to fill the crosswise void in the doorway area between containers.

6.2.10.8 Fill the remaining voids between the two doorway bins on each side of the boxcar with an AAR approved 48 in. × 84 in. pneumatic dunnage bag of a level appropriate for the weight of the load. One sheet of fiberboard is required on each side of the pneumatic dunnage bags to serve as a buffer. Inflate each bag to 5 psi. Check the bags for leakage 30 minutes after inflation.

General Information Series No. 782

Plastic Intermediate Bulk Containers with Disposable Inflatable Dunnage Bags and Lengthwise Void Fillers – Schoeller Allibert

General Information Series Publications

744 Double Layer Load Secured with Cordstrap® Barriers in a 20-ft Container (ILG Method I-4) (7/15)
745 Nonhazardous Loads Secured with Cordstrap® Barriers in 40-ft Containers (ILG Method I-5) (2/16)
749 50 in. Diameter Roll Paperboard in 50 ft. Cushioned Boxcars with Horizontal Airbags (8/16)
750 Double Layer Loads of 55 Gallon Closed Head Steel Drums Secured with Cordstrap® Barriers in a 20-ft Container (Intermodal Loading Guide Method I-4HM) (8/16)
752 Large Diameter Paper Rolls in 60 ft. Cushioned Boxcars with Anchored Straps (10/16)
753 60 in. Diameter Roll Paperboard in 60 ft. Boxcars with Doorway Stacks on Risers (10/16)
754 Wood Bins Braced by Disposable Inflatable Dunnage Bags and Lengthwise Fillers (CCLG Part 7, Section 6.3 Revised 10/16)
755 55-Gallon Steel Drums on Pallets Secured with Cordstrap® Barriers in 40-ft ISO Containers (Nonhazardous Materials only) (Intermodal Loading Guide Method I-6) (new 11/16)
757 46 in. to 57 in. Diameter Roll Paper on End Using Rubber Mats (Revised Intermodal Loading Guide Method E-21) (1/17)
758 58 in. Diameter Roll Pulpboard with an Incomplete Second Layer Loaded On End (Former Pamphlet No. 39, Method 11) (2/17)
759 Revision to Paragraph 2.5, Distribution of Weight Crosswise in Cars, CCLG Part 10, Primary Metals (2/17)
760 Incomplete Layers of Plywood Secured in Boxcars with Nonmetallic Straps, CCLG Part 3, Plywood (2/17)
761 37 in. Diameter Plastic Stretch Wrapped Kraft Rolls Loaded in a Single Layer in 60 ft. Cushioned Boxcars Using Rubber Mats and Lengthwise Filler Panels (3/17)
763 Roll Paperboard in Boxcars with Doorway Stacks on Risers and Rubber Mats (6/17)(Cancels GIS 762)
764 Non-metallic Strap Substitution for Steel Strap as Doorway Protection in Boxcars (Cancels GIS 756) (06/17)
765 Wood Bins Braced by Disposable Inflatable Dunnage Bags and Shock-Gard® Lengthwise Void Fillers (7/17)
766 45 in. Diameter Roll Paper in 60 ft. Cushioned Boxcars with Double Plug Doors (8/17)
768 Gearboxes Mounted on Sleds in 20 ft. Long ISO Containers (9/17)
769 42 in. Diameter Roll Paper in 60 ft. Cushioned Boxcars Using Rubber Mats and Airbags (CCLG Part 2, 8.3.2.6)(9/17)
770 48 in. Diameter Roll Paper in 50 ft. Cushioned Boxcars Using Horizontal Airbags (CCLG, Part 2, Section 8) (9/17)
771 50 in. Diameter Roll Paper in 50 ft. Cushioned Boxcars Using Sidewall Fillers and Horizontal Airbags (CCLG, Part 2, Sections 5.6.10 & 8.2.4.4 Revised)(10/17)
772 81 in. Diameter Roll Paperboard in 50 ft. Standard Draft Gear Boxcars with Sliding Doors (CCLG Part 2, Section 8.2.8.1) (10/17)
773 42 in. Diameter Roll Paper in 50 ft. Cushioned Boxcars with 12 ft. Doors (CCLG Part 2, Section 8.2.2.5) (12/17)
774 48 in. Diameter Roll Paper in 60 ft. Cushioned Boxcars with 16 ft. Double Doors (CCLG Part 2, Section 8.3.4.5) (12/17)
775 54 in. Diameter Paperboard on End Using Rubber Mats (New Intermodal Loading Guide Method E-22)(January 2018)
776 45 in. Diameter Roll Paper in 50 ft. Cushioned Boxcars with 12 ft. Doors (CCLG Part 2, Section 8.2.3.8) (2/18)
777 Double Layer Loads of 76-55 Gallon Drums Secured with Ty-Gard DS™ Barriers in 20-ft Containers (Intermodal Loading Guide Method B-9)(3/18)
778 Split Loads of 58 in. Diameter Roll Pulpboard on End Using Rubber Mats when Stowed in Trailers Having Large Metal Plates Approximately 9 ft. in Length at the Nose (Intermodal Loading Guide Method E-22)(3/18)
779 Double Layer Loads of Hazardous or Nonhazardous Materials Secured with Cordstrap® Barriers in a 20-ft Container (ILG Method I-4HM) (4/18) Cancels GIS 744
780 Hazardous or Nonhazardous Loads Secured with Cordstrap® Barriers in 40-ft Containers (ILG Method I-5HM) (4/18) Cancels GIS 745
781 Wood Bins Braced by Disposable Inflatable Dunnage Bags and BIN-PAK or M-PAK Lengthwise Void Fillers (4/18)
782 Plastic Intermediate Bulk Containers with Disposable Inflatable Dunnage Bags and Lengthwise Void Fillers – Schoeller Allibert (CCLG Part 7, Section 6.2)(4/18)