

# **General Information Series No. 755**

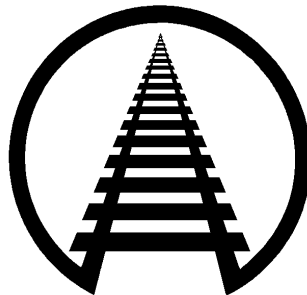
## **55-Gallon Steel Drums on Pallets Secured with Cordstrap® Barriers in 40-ft ISO Containers**

**(Nonhazardous Materials only)**

**ILG Method I-6 (New)**

**Approved by  
DAMAGE PREVENTION & FREIGHT CLAIM COMMITTEE**

*Association of American Railroads*



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### 55-Gallon Steel Drums on Pallets Secured with Cordstrap® Barriers in 40-ft ISO Containers (Nonhazardous Materials only)(Intermodal Loading Guide Method I-6)

#### GENERAL RULES

The General Rules relating to personal safety and the safe operation of trains, contained in AAR Circular Nos. 42-K and 43-F 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This approval may be withdrawn if the loads using these methods exhibit consistent load failure during actual shipments.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.*

**CAUTION:** Car rocking motion caused by the lift equipment entering and/or exiting the rail car may cause unsupported packages or articles with a higher center of gravity to fall to the floor. Minimize access to the car. Exercise caution when inside a partially loaded car. Lift operators should stay on lift equipment, whenever possible, while inside a partially loaded car.

The following bracing method uses Cordstrap® barriers that are attached to the forward corner posts of an ISO type container with CornerLash® anchors.

#### **Figure 4.55:**

1. This load may contain up to 80 closed head drums loaded in a 4-4 pattern loaded on pallets, loaded in a single layer and secured in 2 sections of 10 pallets (40 drums) each. Four drums are secured to each pallet by a minimum 90-gage stretch wrap with 4 wraps on top, 3 wraps middle, and 4 wraps at the bottom, and stretch-roped to engage the pallets. This method is not suitable for open head, fiber or plastic drums. It is intended for single layer loads only, no two layer or partial second layer loads.
2. Alternately, drums may be secured to the pallets by strapping applied as shown in Figure 4.55, Sketch 2, with 2 straps encircling vertically both lengthwise and crosswise, and beneath the pallet top deck, and one additional unitizing strap to encircle the 4 drums horizontally at their midsection. Either ¾ in. x 0.040 in. Type IV PET or 5/8 in. x 0.020 in. steel strap is an acceptable alternative to stretch wrap. Use a wooden top cap or suitable angle board to provide a flat bearing surface over the top corners of the drums.
3. Install CornerLash® strap anchors, 2 per corner, at +/- ½ the height of the drums, as shown in Photo No. 1, and thread Cordlash® 200LE Type 1A, Grade 7 strap through the anchors, extending out the container doors.

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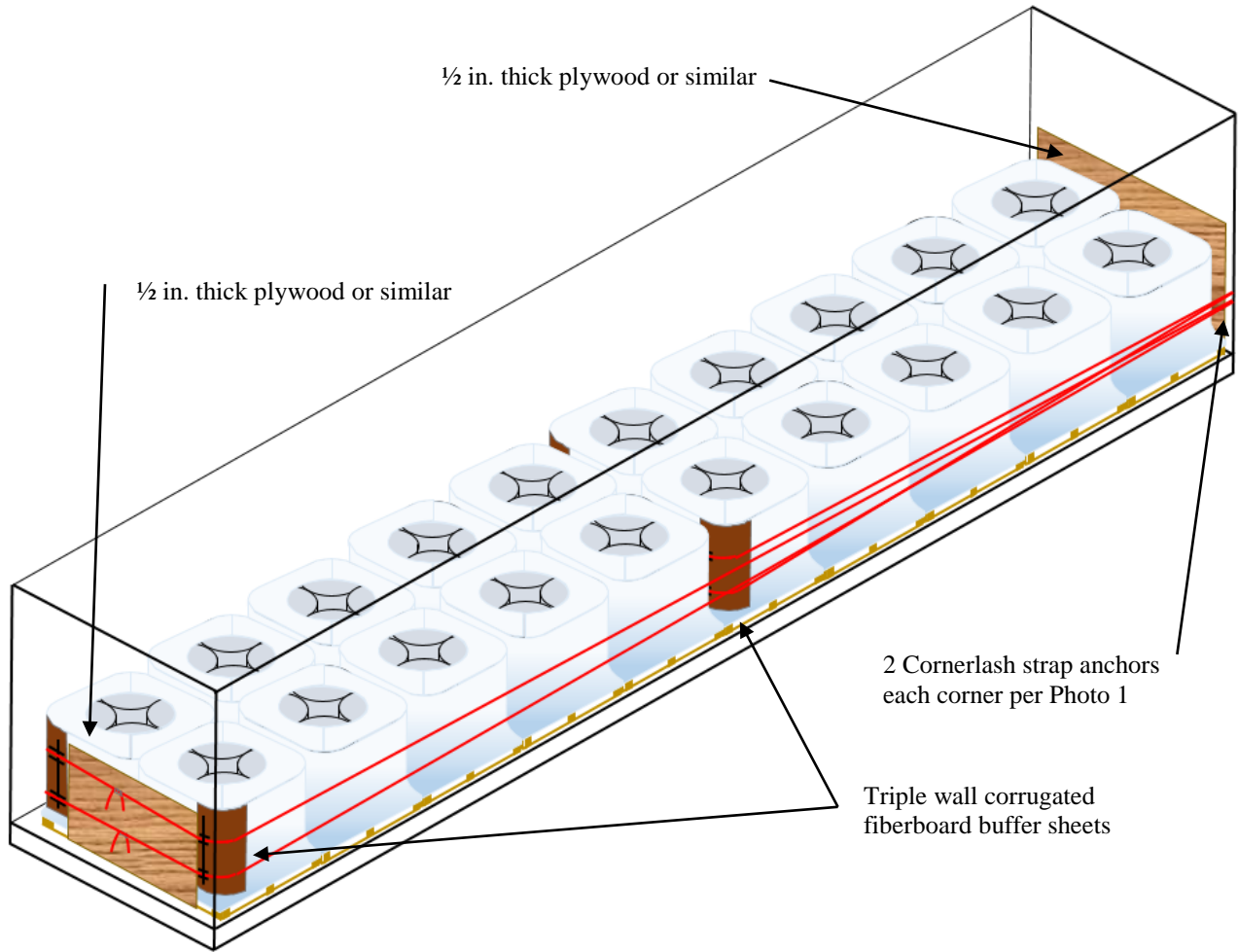
4. Use triple wall corrugated fiberboard as buffer sheets between the drums and the straps at the intermediate barrier and at the doorway.
5. Bring the strap ends around the last stack of drums in each section as shown in Figure 4.55, Sketch 1. The straps are horizontally aligned with the upper and lower drum rolling hoops. Join the straps using Dynablock® ladder type buckles and tension with a Cordstrap CT50PN pneumatic tensioner according to manufacturers' instructions.
6. Use ½ in. thick plywood sheets, one at the front end wall and one at the rear of the load as illustrated in Figure 4.55, Sketch 1.
7. Use strap hangers or tape to maintain straps in position.



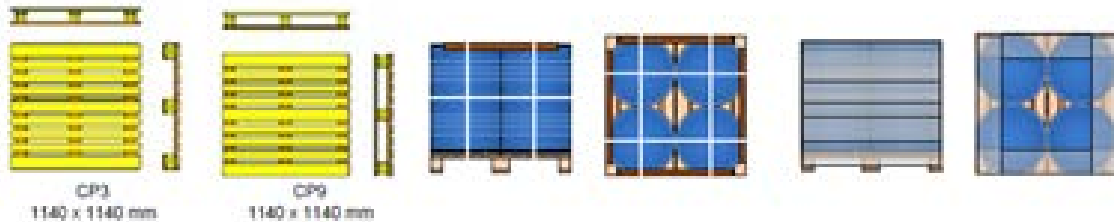
**Photo No. 1: CornerLash® element installed**

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**Figure 4.55, Sketch 1**



**Pallet Dimensions**

**Strapping Configuration**

**Stretch Wrapping**

3/4 in. x 0.040 in. Type IV PET,  
or 5/8 in. x 0.020 in steel,  
4 vertical and 1 horizontal

**Figure 4.55, Sketch 2**

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### **55-Gallon Steel Drums on Pallets Secured with Cordstrap® Barriers in 40-ft ISO Containers (Nonhazardous Materials only)(Intermodal Loading Guide Method I-6)**

### **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) (new 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)
- 751** Non-metallic Strap Substitution for Steel Strap as Doorway Protection in Boxcars (Cancels GIS 743) (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 Inflationable 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)