



Internal Air Transport Certification

AFLCMC/EZFC (ATTLA)
2145 Monahan Way
WPAFB, OH 45433-7017
<https://cs3.eis.af.mil/sites/AFLCMCEZF/AirCerts>



Date: 5 November 2014

Item Nomenclature: Haulmark 16' Trailer, Models GR85X16WT3 and KDNGA7X14DT3

File Number: 2011.06.29 Rev 3

Requestor: VA ANG (MSgt Leon Joyal)

Superseded Certification Date: 27 June 2013

New Information Summary: Added additional model and C-130 approach shoring.

Item Description: The item is identified to be a 16' two axle trailer manufactured by Haulmark. Each trailer has a gross weight rating of 10,000 lbs. Each axle is rated at 5,200 lbs. The landing gear is rated at 7,000 lbs.

Model GR85X16WT3 - The approximate dimensions are 224" L x 105" W x 96" H.

Model KDNGA7X14DT3 – The approximate dimensions are 217" L x 95" W x 95" H.

NOTE: The listed dimensions are approximations. Actual dimensions can vary as long as aircraft limitations published in applicable cargo loading manuals and the conditions of certification listed below are not violated. Adjustments to approach shoring and/or loading methods shall be reported to ATTLA.



Figure 1: Model GR85X16WT3



Figure 2: Model KDNGA7X14DT3

Certified Aircraft: USAF C-130, C-17, and C-5

Conditions of Certification:

1. Maximum Weight for Air Transport:

- a. Gross Vehicle Weight: 8,000 lbs (without sleeper shoring); 10,000 lbs (with sleeper shoring)
- b. Axle Limits: 4,160 lbs (without sleeper shoring); 5,200 lbs (with sleeper shoring)
- c. Landing Gear: 1,037 lbs

2. Item Preparation:

- a. Shipper is responsible for providing all shoring materials. See paragraph 5 for specifications.
- b. All hazardous materials (to include fuel level, batteries, etc.) must be prepared and certified for airlift in accordance with TM 38-250/AFMAN 24-204(I). Do not consider this air transport certification as approval for hazardous materials. Authorization for airlifting hazardous material is the responsibility of AFMC/A4RT (DSN 787-4503 or COM (937) 257-4503).

3. Loading Instructions:

- a. The trailer can be loaded using general loading procedures as listed in the respective aircraft cargo loading manual.

4. Restraint Requirements: The Haulmark Trailer 16' and all accompanying cargo must be restrained to meet MIL-STD-1791 requirements of 3G forward, 1.5G aft and lateral, and 2G up. In addition, stored or installed equipment must meet these requirements and be capable of withstanding a 4.5G down load. The trailers are equipped with tiedown provisions rated at 10,000 lbs each as illustrated in Figures 2 & 3. Restraint may also be applied to axles up to their rated capacity in longitudinal and lateral directions as listed in the Item Description paragraph. Do not apply more than 50% of required restraint to vehicle axles for longitudinal and lateral directions. Note that spring mounted axles provide zero vertical restraint.



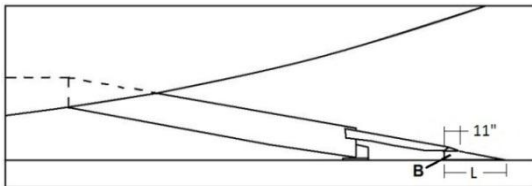
Figure 2: Front Tiedown Provision



Figure 3: Rear Tiedown Provision

5. Shoring Dimensions & Diagrams:

- a. Approach Shoring: Minimum recommended dimensions for 11° approach angle, requirements for other configurations are in the applicable aircraft loading manual.

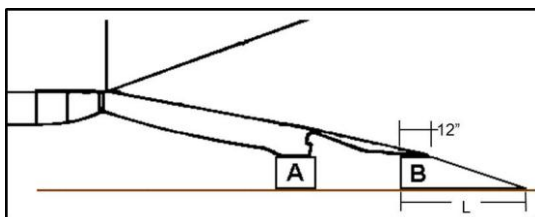


C-17 Shoring

Approach Shoring

“B” 59” L x 18” W x 9” H (2 required)

(Ramp toe end shall be supported by the approach shoring – min 11” L)



C-130 Shoring

Pedestal Shoring

“A” 18” L x 18” W x 2” H

Approach Shoring

“B” 36” L x 24” W x 5” H (2 required)

(Length (L) includes 12” to support the auxiliary ground loading ramp.)

(C-130) CAUTION: Width of approach shoring "B" under the ground loading ramp must be 24" wide. The remaining approach shoring extending away from the auxiliary ramp contact must be a minimum of 18 inches wide.

b. Floor Protection: 8" L x 8" W x ½" H under the landing gear leg, if used.

c. Sleeper Shoring: 8" L x 8" W (4 stacks). The sleeper shoring must be stacked to within ½" of chassis/frame area and secured.

Required Distribution:

1. Shipper shall give a copy of this certification to the ATOC representative when the item is presented for airlift. This memo shall be part of the official cargo manifest documentation package and shall be briefed to the aircraft loadmaster prior to loading this item.
2. AMC/A3V & AMC/A4T.
3. SDDC TEA.

Point of Contact: Thomas McPeak, at thomas.mcpeak.1@us.af.mil or ATTLA@us.af.mil, DSN 986-9903 or Commercial (937) 656-9903. Refer to file number 2011.06.29 Rev 3 to reference this item.



Reviewed by: CAROLINE J. BUCKEY
Aerial Delivery Engineer
Crew Systems Branch



Approved by: MARK A. KUNTAVANISH
Aerial Delivery Technical Expert
Crew Systems Branch