# Internal Air Transport Certification

AFLCMC/EZFC (ATTLA)
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**Date:** 30 April 2018
**Item Nomenclature:** Flight Line Tow Tractor FLTT16-4x2 and FLTT16-4x4 (Bobtail)
**File Number:** 2017.04.24 Rev 1
**Requestor:** On File
**Superseded Certification Date:** 20 July 2017

**New Information Summary:** Added the 4x4 Model to the certification

**Item Description:**

**FLTT16-4x2:** The subject item is identified to be a two axle two tractor (Bobtail). Approximate dimensions are 224" L x 92" W x 84" H. Gross weight is 8,920 lbs with a gross vehicle weight rating (GVWR) of 11,100 lbs. Front axle is reported to weigh 3,820 lbs with a rating of 4,550 lbs. Rear axle is reported to weigh 5,100 lbs with a rating of 6,780 lbs.

**FLTT16-4x4:** The subject item is identified to be a two axle two tractor (Bobtail). Approximate dimensions are 224" L x 91" W x 86" H. Gross weight is 8,920 lbs with a gross vehicle weight rating (GVWR) of 11,500 lbs. Front axle has a rating of 5,200 lbs. Rear axle has a rating of 6,780 lbs. Individual axle weights were not provided.

**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: Flight Line Tow Tractor**

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

**Conditions of Certification:**

**1. Maximum Weight for Air Transport:**

| Model | GVW | Front Axle | Rear Axle | |
|---|---|---|---|---|
| | | Sleeper Shoring Required | NO Sleeper Shoring | Sleeper Shoring Required |
| 4x2 | 11,100 lbs | 4,550 lbs | 5,424 lbs | 6,780 lbs |
| 4x4 | 11,500 lbs | 5,200 lbs | | |

**2. Item Preparation:**

a. The rear middle pintle should be removed for air transportation.

b. Shipper is responsible for providing all shoring materials. See paragraph 5 for specifications.

c. 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 Item can be loaded using general loading procedures as listed in the respective aircraft cargo loading manual.

b. Sleeper shoring is required under the front axle; and may be required under the rear axle per paragraph 1b.

c. Approach shoring is required when loading on C-17 or C-130 Aircraft.

**4. Restraint Requirements:** The Flight Line Tow Tractor and all accompanying cargo must be restrained to meet air transport 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. There are two provisions on the front end and two on the aft end, each provision is rated at 10,000 lbs. The pintle hooks are rated at 15,000 lbs.

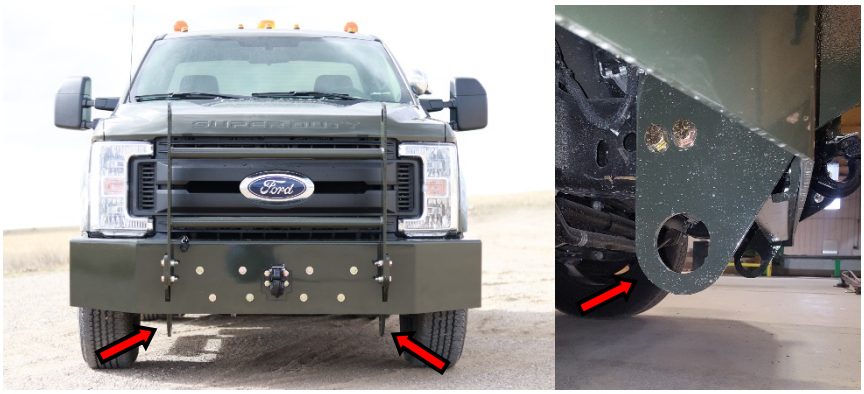
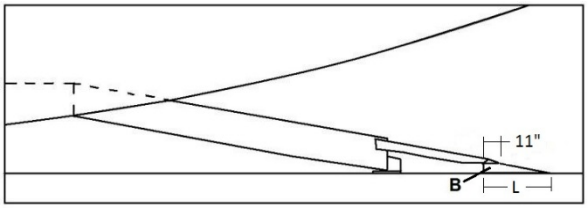


**Figure 2: Front Provisions**

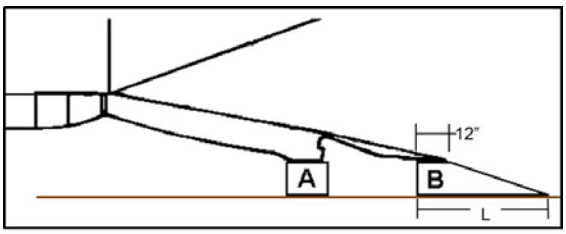
**Figure 3: Rear Provisions**

**5. Shoring Dimensions & Diagrams:**

a. Approach shoring: minimum recommended dimensions for 9° approach angle, requirements for other configurations are in the applicable aircraft loading manual.




**C-17 Shoring**
Ramp Pedestal Shoring
"A" NONE
Approach Shoring
"B" 65" L x 24" W x 8" H (2 required)
(Length (L) includes 11" to support the ramp toe)




**C-130 Shoring**
Pedestal Shoring
"A" 18" L x 18" W x 5" H
Approach Shoring
"B" 65" L x 24" W x 8" 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 24 inches wide.

b. Sleeper Shoring: The sleeper shoring must be stacked to within ½" of chassis/frame area and secured with cargo straps.

(1) Front Axle: 2 Stacks 8" L x 8" W.

(2) Rear Axle (When Required)**:** Two Stacks 10" L x 10" W.

**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

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