



STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
TECHNICAL SPECIFICATIONS FOR  
**QUARTER FRAME END DUMP TRAILER**

**SERIES NO. 510-000**

**REV. 4/11/2024**

**EQUIPMENT SPECIFICATION 510-000D**

**GENERAL**

This specification sets forth the minimum requirements for a Quarter Frame End Dump Trailer.

Equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety and emission standards in effect at time of order.

**REPRESENTATIVE SPECIFICATIONS**

A Clement Pavestar 2 Lightweight Quarter Frame End Dump model HS3026-3, with appropriate options and standard features, were used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidders proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined not to be equivalent to the established criteria will be rejected.

**LOUISIANA AUTHORIZED DEALER(S)**

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer within the State of Louisiana where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), should be supplied with the bid submittal and may be required prior to award.

**DELIVERY & ACCEPTANCE**

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc. A Louisiana safety inspection shall be performed on each vehicle prior to delivery and a Louisiana safety inspection sticker properly affixed.

Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may

be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

Unit(s) shall be delivered “**on the ground;**” DOTD will not unload nor provide any unloading equipment to the vendor/delivery driver in order to offload the unit(s).

**NOTE:** The Department will have space available for equipment to be unloaded.

**EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION AT TIME OF DELIVERY:**

1. Notarized Bill of Sale
2. Original Certificate of Origin (MSO), (no photocopy)
3. Dealer's Service Policy
4. Owner's/Operator's Manual(s)
  - a. One (1) Hardcopy
  - b. One (1) Digital Copy
    - i. Acceptable Formats: PDF delivered via USB “Flash Drive”, or E-mail
5. Service Manual(s)
  - a. One (1) Hardcopy
  - b. One (1) Digital Copy
    - i. Acceptable Formats: PDF delivered via USB “Flash Drive”, or E-mail
6. Build Sheet(s) – as applicable
  - a. One (1) Hardcopy
  - b. Build sheets should be written in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

**NOTE:** Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

**BID SUBMITTALS**

Any additions, deletions, or variations from the specifications should be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications should be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder should note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

**THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.**

## EQUIPMENT SPECIFICATIONS

### NOTICE TO BIDDERS

Bidder should review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

**IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHOULD RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.**

**Note: All values listed below are minimums unless noted otherwise.**

### 1. Trailer Design & Construction

#### 1.1. General Description

- 1.1.1. The trailer shall be a heavy-duty, quarter frame end dump type, designed for supplying hot mix asphalt to a road paver.
- 1.1.2. Complete with all standard features and accessories provided by the manufacturer plus all additional options and accessories specified
- 1.1.3. Must meet all applicable FMVSS, DOT, and ICC Requirement
- 1.1.4. Dump bed and quarter frame shall be steel.

Comply: \_\_\_ Yes \_\_\_ No

#### 1.2. Construction

- 1.2.1. Dump bed body to be elliptical shape
- 1.2.2. Dump bed capacity 26 cubic Yards
- 1.2.3. Dump bed Front Body panels and Side panels to be constructed of 1/8" AR450 Steel
- 1.2.4. Dump Bed Rear Body panels to be constructed of 3/16" AR450 Steel
- 1.2.5. Front wall of dump bed not to exceed 18 " above side wall height
- 1.2.6. Side walls to be 42" in height above floor of dump bed
- 1.2.7. Overall length of entire dump trailer not to exceed 32'
- 1.2.8. Highest point of trailer not to exceed 11' 5" with trailer parallel to the ground
- 1.2.9. Kingpin plate to ground when trailer is level to be 46" – 50"
- 1.2.10. Dump bed top rail to be constructed with 4" x 4" X 3/16" Hi-Tensile Tubing
- 1.2.11. Dual Longitudinal steel beams full length of dump bed
- 1.2.12. One(1) Steel Side Brace per side
- 1.2.13. Center of Kingpin to center of rear axle not to exceed 29'
- 1.2.14. Steel Ladder at front with 2 steps Inside
- 1.2.15. ICC Removable Bumper
- 1.2.16. Roll-Rite Electric Side Roll Vinyl Tarp

Comply: \_\_\_ Yes \_\_\_ No

## EQUIPMENT SPECIFICATIONS

### 1.3. Tailgate

- 1.3.1. Tailgate to be constructed of aluminum with a minimum opening of 81"
- 1.3.2. Tailgate to be mounted over hung
- 1.3.3. Tailgate to be Air-Lift operated
- 1.3.4. Tailgate to be controlled in tractor/truck cab
- 1.3.5. Mud Flaps attached to tailgate

Comply: \_\_\_ Yes \_\_\_ No

### 1.4. Hoist Box and Cylinder

- 1.4.1. Hoist cylinder to be a minimum of 8" diameter
- 1.4.2. Hoist cylinder to be mounted inverted
- 1.4.3. Hoist cylinder to be mounted external of dump bed

Comply: \_\_\_ Yes \_\_\_ No

### 1.5. Chassis

- 1.5.1. Chassis to be semi-frameless design
- 1.5.2. Longitudinals to be 4" X 8" X 3/16"
- 1.5.3. Arms to be 3/16" fabricated tubing
- 1.5.4. Stabilizer to be 3" X 4" X 1/4"
- 1.5.5. Landing gear shall be 2 speed capable of supporting trailer loaded to maximum capacity
- 1.5.6. King Pin to be 1/4" AR450 (Rocking/Breakaway)

Comply: \_\_\_ Yes \_\_\_ No

### 1.6. Axles & Brakes

- 1.6.1. Two fixed 102" axles
- 1.6.2. Each fixed axle shall have a capacity of 25,000 lb.
- 1.6.3. Fixed Axles to be 5" round utilizing common inner/outer bearings
- 1.6.4. Air Ride/Air Lift Third Axle
- 1.6.5. Hubometer
- 1.6.6. 48"-51" axle spacing
- 1.6.7. Ridewell air ride suspension
- 1.6.8. Full air-operated brake equipment for all wheels
  - 1.6.8.1. Lightweight hubs and drums
  - 1.6.8.2. Outboard drums & automatic slack adjusters
  - 1.6.8.3. 16 1/2" X 7" (min.) non-asbestos linings
  - 1.6.8.4. Automatic spring brake application on axles upon accidental breakaway
  - 1.6.8.5. 2S :1M ABS anti-lock brake system
- 1.6.9. Aluminum fenders over all 3 axles

Comply: \_\_\_ Yes \_\_\_ No

## EQUIPMENT SPECIFICATIONS

### 1.7. Wheels & Tires

- 1.7.1. First line, first quality
- 1.7.2. 11R X 24.5, 16 ply
- 1.7.3. 8.25 X 24.5 hub piloted steel disc wheels
- 1.7.4. Air inflation system on all wheels, Meritor or equal

Comply: \_\_\_ Yes \_\_\_ No

### 1.8. Lights, Markings & Safety

- 1.8.1. Trailer shall be equipped with clear lens LED lights plus conspicuity tape and reflectors in accordance with all applicable requirements, including turn signals, dual tail lights, mid-ship turn signals, brake lights, and license plate light.
- 1.8.2. Standard 7-way receptacle, SAE J-560a type provided.
- 1.8.3. All wiring shall be of adequate capacity and properly installed for maximum protection from damage and weather, and all lights shall be recessed or guarded to prevent accidental damage.
- 1.8.4. Wiring harness shall be Grote "Xtreme" or approved equal, with neoprene compression seals, grommets for protection when running through metal, and support clamps at intervals of no more than 24."

Comply: \_\_\_ Yes \_\_\_ No

### 1.9. Paint/Finish

- 1.9.1. Manufacturer's standard black urethane enamel

Comply: \_\_\_ Yes \_\_\_ No

