



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

40-TON SLIDING AXLE, ALUMINUM FLAT DECK TRAILER

SERIES NO. 510-000

REV. 3/17/2025

EQUIPMENT SPECIFICATION 510-000F

GENERAL

This specification sets forth the minimum requirements for an aluminum 40-ton flat deck, semi-trailer with a rear sliding axle.

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 Dorsey 53 x 102 Aluminum Flat Bed, with appropriate options and standard features, was 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:

1. Notarized Bill of Sale
2. Certificate of Origin (MSO)
3. Dealer's Service Policy
4. Owner's/Operator's Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: CD, DVD, Flash Drive, or E-mail
5. Service Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: CD, DVD, Flash Drive, or E-mail
6. Build Sheet(s) – as applicable
 - a. One (1) Hardcopy
 - b. Build sheets should be writing 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.

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 of aluminum construction, heavy-duty flat deck with sliding rear axle, designed for heavy hauling
- 1.1.2. Complete with all standard features and accessories normally provided by the manufacturer plus all additional options and accessories specified hereinafter
- 1.1.3. Must meet all applicable OSHA requirements
- 1.1.4. Must meet all applicable FMVSS, DOT, and ICC Requirement

Comply: ____Yes ____No

1.2. Capacity and Dimensions

- 1.2.1. 80,000 GVWR
- 1.2.2. 53' Overall Length
- 1.2.3. 8'6" Overall Width

Comply: ____Yes ____No

1.3. Coupler

- 1.3.1. 30" King Pin Setting – Tapered Front
- 1.3.2. ½" Aluminum Upper Coupler Plate
- 1.3.3. 48" Upper Coupler Height

Comply: ____Yes ____No

1.4. Construction

- 1.4.1. Frame: 25" Fab. -PreCambered Aluminum I-Beams
- 1.4.2. Coil Package
- 1.4.3. Side Rails: Extruded Aluminum – "J" Track Integrated
 - 1.4.3.1. Stake Pockets: 24" O.C., Three (3) across the back
 - 1.4.3.2. Double Sized Aluminum Pipe Spools

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- 1.4.3.3. 3/8" x 3" aluminum rub band – recessed for DOT conspicuity tape
- 1.4.4. Winch Track: Double L Aluminum
 - 1.4.4.1. Bolt on both sides & Tie Bar both sides
- 1.4.5. Floor Sills: 5" C-Channel, 22" O.C.
- 1.4.6. Floor Decking: 1-1/2" Extruded Aluminum w/ 2 Hardwood Nailer Strips
- 1.4.7. Aluminum Rear Skirt
- 1.4.8. Rubber Dock Bumpers

Comply: ____Yes ____No

1.5. Axles & Suspension

- 1.5.1. Two (2) axles, 22,500 lb. capacity each
 - 1.5.1.1. Rear Axle Slider – 3 Position
 - 1.5.1.1.1. Suspension Location: 40' in Closed Position (Center of King Pin to Center of Axle)
 - 1.5.1.2. full width through
 - 1.5.1.3. oil bath bearings
- 1.5.2. Air ride suspension, SAF-Holland/Neway RLU288, Hendrickson Intraax or equal
- 1.5.3. Electric dump valve wired at the front of the trailer

Comply: ____Yes ____No

1.6. Brakes

- 1.6.1. Full air-operated brake equipment for all wheels
 - 1.6.1.1. Type 30 chambers
 - 1.6.1.2. Automatic slack adjusters
 - 1.6.1.3. Automatic spring brake application on axles upon accidental breakaway
- 1.6.2. 2S/1M ABS anti-lock brake system, Wabco or equal
- 1.6.3. Must comply with all State and Federal ICC regulations

Comply: ____Yes ____No

1.7. Wheels & Tires

- 1.7.1. Polished Aluminum Wheels – all 8 wheels
 - 1.7.1.1. Hub-piloted disc type
- 1.7.2. First line, first quality tires (Continental, Michelin or equal)
 - 1.7.2.1. Size 295/75R-22.5 regular tread, radial
 - 1.7.2.2. Load range J min. (load range must be compatible with axle rating)
- 1.7.3. Two (2) spare tires & wheels
- 1.7.4. Air inflation system, Meritor or equal

Comply: ____Yes ____No

1.8. Lights & Markings

- 1.8.1. Trailer shall be equipped with clear lens LED lights plus conspicuity tape and reflectors in accordance with all applicable requirements

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1.8.2. 7 Micros lights per side

1.8.3. Standard 7-way receptacle, SAE J-560a type provided.

1.8.4. 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.

1.8.5. 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. Additional Options & Accessories

1.9.1. Anti-Sail Mud flaps and brackets behind all axles

1.9.2. Two-speed Aluminum Landing Gear – 19" Travel

1.9.3. Twelve (12) Double L winches

1.9.4. Twelve (12) – "J" Handles w Driver side Holder

1.9.5. Storage

1.9.5.1. One (1) toolbox on each side, mounted under the deck

1.9.5.2. Interior lighting

1.9.5.3. Approx. 24"x24"x60"

1.9.5.4. Lockable side-opening doors

1.9.6. Galvanized steel components

Comply: ____Yes ____No

BIDDER'S EXCEPTIONS

Instructions: Bidder should note all exceptions in space provided below. List the detail number from the aforementioned specification in the column to the left and the exception in the column to the right. Responses may be typed or hand-written. Handwritten responses must be legible. If additional space is needed, please print a duplicate copy of this sheet. "Bidder's Exceptions" page(s) should be returned with the bid submittal.

Examples:

1.6	Engine has 325 horsepower
1.18.3	Batteries have 2000 CCA combined.
2.2.8	Crossmembers are 4" channel on 12" centers.

**Spec./Detail
Reference**

Exception
