

UNSPSC: 25101601		GROUP 2: FLAT BED DUMP TRUCK BODY SPECIFICATIONS (FLAT-14) FOURTEEN (14) FOOT FLAT BED HEAVY-DUTY DUMP BODY	
STATE OF FLORIDA BASE VEHICLE SPECIFICATION			
REPRESENTATIVE MODEL(S):	GALION PLD, GAR-P 14 FLAT, GODWIN 300-U, HEIL CONTRACTORS BODY, JHE 14D4B-14, OX BODIES 14FT FLAT DUMP, TRANSTAT 14 FOOT, T&T FD 14, WARREN C450-14 OR APPROVED EQUIVALENT		
SCOPE:	<p>The requirements specified herein apply to all bodies supplied with trucks purchased under the terms and conditions of this contract.</p> <p>The intent of this specification is to provide minimum requirements for a dump body and hoist combination to be used by the State and various political subdivisions. Due to the nature of government work, all body/hoist combination delivered under this specification may be subject to use under adverse conditions such as dumping on road shoulders at a slight angle and spot dumping of loads. Vendor will be held responsible for supplying equipment that will withstand this intended use for the life of the chassis (approximately ten (10) years). Parts and service must be readily available throughout the Purchasing District(s) bid.</p>		
SAFETY:	Flat Bed heavy-duty dump body, hoist and electric roll-up dump body tarp systems shall conform to all applicable Federal Motor Vehicle Safety Standards ("FMVSS") and State of Florida vehicle safety laws, regulations, specifications, standards, and requirements in effect as of the date of manufacture.		
REQUIREMENTS:	<p>In the priority listed herein, each State of Florida Base Vehicle Flat Bed Heavy-Duty Dump Body, Hoist and Electric Roll-Up Dump Body Tarp System shall comply with the following:</p> <ul style="list-style-type: none">• Section 3, Description of Scope;• the individual Base Vehicle Specification contained in the applicable Base Vehicle Tab in the Price Sheet Workbooks; and• the following Requirements:		
BODY REQUIREMENTS			
A. Capacity:			
	1.	Minimum three and a half (3.5) cubic yard capacity, water level, without sideboards.	
	2.	<p>Dimensions (minimum):</p> <ul style="list-style-type: none">• Inside Length: fourteen (14) feet, zero (0) inches• Inside Width: seven (7) feet, zero (0) inches• Side Height: one (1) foot, zero (0) inches• End Heights: one (1) foot, zero (0) inches	
	3.	All capacity derived load ratings must be based on four and a half (4.5) cubic yards capacity.	
B. Under structure Construction:			
	1.	Under structure to consist of two (2), six (6) inch C-channel structural steel longitudinal beams and four (4) inch C-channel structural steel transverse members.	
	2.	Transverse members are to be evenly spaced along the longitudinal beams; however, in no case shall there be spacing greater than twelve (12) inches off-center between transverse members.	
	3.	Transverse member fabrication and installation must meet the following requirements: extend the entire width of the body, welded on the web side to the longitudinal beams, gusseted to each longitudinal with 1/4 inch steel plate, and welded to the rub rail on each end.	
C. Body Construction:			
	1.	Entire body (including sides, front, rear apron, cab protector, floor, and tailgate) is to be constructed with minimum eight (8) gauge hi-tensile (minimum 45,000 PSI yield strength) steel plate.	
	2.	All horizontal braces and rub rails are to be sloped to allow debris and dirt to fall off.	

3.	Front bulkhead to be forty-two (42) inches high, minimum, with a 12 inch Height x 24 inch Width window, covered with seven (7) gauge expanded metal. Bulkhead to have four (4), three (3) inch C-channel vertical braces, two (2) of which must be welded to the longitudinal beams and two (2) welded to outside rub rails.
4.	Top rails to be reinforced box-type construction with stake pockets.
5.	Minimum of five (5) vertical side braces on each side of body in addition to full depth rear corner posts. Tailgate must be reinforced with two (2) vertical braces.
6.	Body to be equipped with heavy-duty hardware, fabricated steel tailgate hinges, and double thickness spreader chain key slots.
7.	Full-depth rear apron and a quarter cab protector.
8.	Tailgate is to be double-acting with upper and lower hinges.
9.	Continuous weld construction is required throughout. A suitable chain weld is acceptable for the top rail only, if that is part of the manufacturer's standard construction practice. All seams or overlapped joints shall have a full penetration weld or to be welded on both sides.
10.	This body shall be structurally sound at a loading of 15,300 lbs. payload.
HOIST REQUIREMENTS:	
A. Capacity:	
1.	Hoist provided is to be an N.T.E.A. Range E, minimum. Hoist is to be a Galion CD44250, Godwin G4250T, Heil 2T52-56, Ox Bodies 5390T, Warren CFT-4243 or Approved Equivalent.
2.	Hoist must be rated by the vendor for a payload of 15,300 lbs. (7.6 tons) plus the weight of the body supplied, minimum. Vendor should consider anticipated rear overhang when rating hoist capacity.
B. Type	
1.	Hoist is to be a direct lift (scissors type are not acceptable) with twin multistage telescopic cylinders.
2.	Hoist cylinders shall be mounted on the inside of the truck frame.
3.	Hoist is to be a packaged unit to include lift mechanism, direct mount hydraulic pump, and all necessary controls required for operation.
4.	An OSHA approved hinged body props must be installed on each side of the body.
5.	Hoist provided must raise the body to a dump angle of 45 degrees, minimum.
6.	Hydraulic pump must be a direct mount, pump/valve design with an SAE "B" mounting flange to the transmission PTO. The pump shall include an air shift control valve for vehicles equipped with air brakes and a cable controlled valve for vehicles equipped with hydraulic brakes. Vendor must supply hydraulic pump and reservoir, all adapters, couplings, hoses, fittings, etc. sized and required for proper operation.
7.	Transmission mounted PTO shall be a Chelsea 271 or Muncie CS Series, electric-over-hydraulic shift, with over speed control when specified or Approved Equivalent for vehicles equipped with an automatic transmission; or a Chelsea 440 or Muncie TG Series, electric-over-air shift or Approved Equivalent, for vehicles equipped with a manual transmission and air brakes; or a Chelsea 440 or Muncie TG Series, electric shift or Approved Equivalent, for vehicles equipped with a manual transmission and hydraulic brakes. All transmission PTO's shall have an SAE "B" direct mount flange for mating with pump. System must include a light to indicate when the PTO is engaged.
8.	The PTO switch, indicator light and hydraulic pump air shift control valve (vehicles equipped with air brakes) shall be installed in a dash mounted control panel readily accessible to the driver. The shift controls shall include a mechanical safety interlock to prevent accidental PTO engagement, automatic PTO disengagement when in the "lower" position (to prevent the PTO from being accidentally left in gear); spring return valve (dead man control) in the "raise" position, and controlled lowering (feathering) for smooth dump body decent. Controls to be Chelsea 329144X "PTO/dump pump

	combo valve” or Muncie K90D “PTO/pump valve” or Approved Equivalent. Vehicles equipped with hydraulic brakes shall have a dash mounted PTO switch and a stainless steel wire, vinyl covered cable to operate the hydraulic pump valve. The cable must be located accessibly, on the floor between the driver’s door and the left front corner of the seat.
9.	A raised body indicator with a minimum 1-1/2 inch diameter blinking amber light on driver side of dash must be installed. The indicator shall function when the body is lifted off the frame, when the ignition key is on.
10.	Note: In the event that the above combinations present problems, it is the bidder’s responsibility to offer solutions based on the newest product available to meet the using agency’s needs.
OTHER REQUIREMENTS:	
A.	Electric roll-up dump body cover installed and ready for use. Tarp to be heavy-duty vinyl mesh, dark color only. Tarp system must include a direct drive gear motor assembly, underbody or side mount spring assembly and a control switch mounted inside the cab readily accessible to the driver. Arm assembly shall be constructed from steel tubing. All metal parts to be painted as necessary to match body. Aero Industries, Inc. Model 50, Donovan Enterprises, Inc. Model 5000 EL-D; Pioneer Model EDD 1500D; Roll-Rite Corp. Model RR503; or Approved Equivalent.
B.	All lights and reflectors shall be installed in shock-mounted recessed fixtures, in accordance with SAE/ICC Regulations
C.	Body is to be painted with two (2) coats of rust-inhibiting primer and one (1) coat of finish paint. Finish paint is to be DuPont Centari or Approved Equivalent only. Body color is to match the lower portion of the truck cab. Vendor must consider optional paint schemes in the detailed truck specifications. Vendor is not required to finish paint the inside of the body, but a minimum of one (1) coat of primer must cover the entire inside of the body.
D.	Hoist is to be painted to match truck frame.
NOTES:	
A.	The body specified herein is not intended to be a standard production body, however if the materials or workmanship used in a standard production body exceed these specifications in any way, and then said features of the standard production body shall apply.
B.	An electric backup alarm and mud flaps are included with all “base” units. Do not include price for backup alarm or mud flaps in body price.
C.	In order for a body to receive an Approved Equivalent rating, the manufacturer must have constructed a minimum of 200 units of the same size and type, as well as meeting all requirements of the detailed specifications.
D.	THE STATE OF FLORIDA BASE VEHICLE SPECIFICATION IS NOT COMPLETE UNLESS IT IS USED IN CONJUNCTION WITH THE COMPLETE REQUIREMENTS, SPECIFICATIONS, TERMS, AND CONDITIONS.

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