



**TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLES UP.**

TOTAL WEIGHT ON FRONT AXLE	= 17,820 LBS.
TOTAL WEIGHT ON REAR AXLE	= 18,920 LBS.
FRONT AXLE WT. PERCENTAGE	= 48 %
REAR AXLE WT. PERCENTAGE	= 52 %
GROSS VEHICLE WEIGHT	= 36,740 LBS.

**TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., WITH PAYLOAD, LIFT AXLES DOWN.**

TOTAL WEIGHT ON FRONT AXLE	= 19,690 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 11,000 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 29,810 LBS.
TOTAL WEIGHT ON TAG AXLE	= 7,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 29 %
PUSHER AXLE WT. PERCENTAGE	= 16 %
TANDEM AXLE WT. PERCENTAGE	= 44 %
TAG AXLE WT. PERCENTAGE	= 11 %
GROSS VEHICLE WEIGHT	= 68,000 LBS.
WATER LEVEL PAYLOAD	= 31,260 LBS.

**TRUCK SPECIFICATIONS**

TRUCK MODEL	= KENWORTH T440
WHEELBASE	= 300"
CAB TO AXLE	= 232 1/2"
AXLE-TO-FRAME	= 112"
FRONT AXLE CURB WEIGHT	= 10,500 LBS.
REAR AXLE CURB WEIGHT	= 8,300 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
REAR G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 25.64 in. <sup>3</sup>
MINIMUM RBM/RAIL OF 3,077,037 IN-LBS	

**NOTES:**  
 DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.  
 FULL LENGTH SUBFRAME REQUIRED.  
 6" X 4" X 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 5" X 3" X 3/8" RECT. TUBING (CROSS MEMBERS EVERY 3')  
 FLATBED WEIGHT IS ESTIMATED.  
 CURB WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).  
 20,000 LBS. ALLOWED ON FRONT AXLE.  
 34,000 LBS. ALLOWED ON TANDEM.  
 42,500 LBS. ALLOWED ON TRIDEM. (9')  
 43,500 LBS. ALLOWED ON TRIDEM. (10')  
 52,000 LBS. ALLOWED ON QUAD. (15')  
 68,000 LBS. ALLOWED GROSS WEIGHT.  
 ALLOWABLE LEGAL OVERALL LENGTH IS 40'.

**NOTICE:**  
 THE DRAWING PURPOSE IS TO INTRODUCE A GENERAL CONCEPT OF A PROPOSED IDEA.

**NOTICE:**  
 THIS WEIGHT DISTRIBUTION IS BASED ON ESTIMATED WEIGHTS AND IS ONLY AS ACCURATE AS THOSE ESTIMATES. ACTUAL WEIGHTS MAY CHANGE THE RESULTS OF THIS WEIGHT DISTRIBUTION.

<b>Hiab, Inc.</b> Hiab, Inc. 12233 Williams Road Perrysburg, Ohio 43551 Tel (419) 482-6000 Fax (419) 482-6001 <small>Tolerances - unless otherwise noted. Tolerances are in inches.</small> 2-PLACE ±.000..... .03 3-PLACE ±.000..... .015 ANGULAR ± .....1' FRACTIONAL ± .....1/16" <small>Break all sharp corners unless otherwise specified.</small>		THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF Hiab, Inc., 12233 WILLIAMS RD., PERRYSBURG, OHIO 43551 AND IS CONFIDENTIAL. IT MUST NOT BE MADE PUBLIC OR COPIED. THIS DRAWING IS LOANED TO RETURN UPON DEMAND AND SHALL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS. OUR PRIOR SPECIFIC APPROVAL IS REQUIRED FOR EXPOSURE OF THIS DRAWING TO OTHERS FOR ANY PURPOSE.	
Drawing Title: <b>HIAB 302EP-3</b>		Project Name: <b>SALES LAYOUT</b>	
Dwg/Cad file no. <b>302 / SALES</b>		Drawn by: Date: <b>EJM 9-3-19</b>	
Next Assy.		Size: Part No.	
Approval:		Scale: unit wt. Eng. job no.:	