



CRANE WILL BE DERATED IN REAR QUADRANTS AS MUCH AS 25%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

425/65R22.5 TIRES REQ'D

STEERABLE LIFT AXLE

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 17,550 LBS.
TOTAL WEIGHT ON REAR AXLE	= 22,760 LBS.
FRONT AXLE WT. PERCENTAGE	= 44 %
REAR AXLE WT. PERCENTAGE	= 56 %
GROSS VEHICLE WEIGHT	= 40,310 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 19,900 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 7,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 33 %
REAR AXLE WT. PERCENTAGE	= 55 %
LIFT AXLE WT. PERCENTAGE	= 12 %
GROSS VEHICLE WEIGHT	= 61,400 LBS.
WATER LEVEL PAYLOAD	= 21,090 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KENWORTH T880S SFA
WHEELBASE	= 294"
CAB TO AXLE	= 208"
AXLE-TO-FRAME	= 136"
FRONT AXLE CURB WEIGHT	= 10,893 LBS.
REAR AXLE CURB WEIGHT	= 8,705 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	= 32.70 in. ³
MINIMUM RBM/RAIL OF 3,924,000 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.
 FULL LENGTH SUBFRAME REQUIRED:
 6"X4"X3/8" RECT. TUBING (ON TOP OF FRAME RAIL).
 5"X3"X3/8" RECT. TUBING (CROSS MEMBERS).
 CURB WEIGHTS WERE PROVIDED.
 BODY & LIFT AXLE WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 43,500 LBS. ALLOWED ON 10' TRIDEM.
 63,500 LBS. ALLOWED FOR GROSS VEHICLE WEIGHT.
 OVERALL LENGTH MUST NOT EXCEED 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.

Hiab 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 2-PLACE ±.000... .05 3-PLACE ±.000... .015 ANGULAR ±1/16" FRACTIONAL ±1/16" 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: HIAB 358E-7 HIPRO		
	Next Assy. Dwg/Cad file no.	Project Name: SALES LAYOUT		
	J W Approval:	Date: 4-12-19 Date Approved:	Size: Scale:	Part No. unit wt. Eng. Job no.:
	358 / SALES			