



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 15,290 LBS.
TOTAL WEIGHT ON REAR AXLE	= 16,490 LBS.
FRONT AXLE WT. PERCENTAGE	= 48 %
REAR AXLE WT. PERCENTAGE	= 52 %
GROSS VEHICLE WEIGHT	= 31,780 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 16,070 LBS.
TOTAL WEIGHT ON REAR AXLE	= 36,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
REAR AXLE WT. PERCENTAGE	= 69 %
GROSS VEHICLE WEIGHT	= 52,070 LBS.
*WATER LEVEL PAYLOAD	= 20,290 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SBA
WHEELBASE	= 272 1/2"
CAB TO TANDEM	= 207"
AXLE-TO-FRAME	= 134"
FRONT AXLE TARE WEIGHT	= 10,633 LBS.
REAR AXLE TARE WEIGHT	= 8,840 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	= 16.40 in. <sup>3</sup>
MINIMUM RBM/RAIL OF 1,960,039 IN-LBS	

**NOTES:**  
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.  
 RISER REQUIRES FOR OUTRIGGER CLEARANCE:  
 4"x4"x3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 3"x3"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)  
 BODY WEIGHT FROM MORGAN WEBSITE.  
 CURB WEIGHTS WERE PROVIDED.

TRUCK RUNS IN NEW YORK.  
 20,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
 36,000 LBS. ALLOWED ON TANDEM AXLE GAWR.  
 54,750 LBS. ALLOWED FOR GROSS WEIGHT (25').  
 MAXIMUM LENGTH CANNOT 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.

**Cargotec USA**  
 Cargotec USA Inc, Hiab  
 12233 Williams Road  
 Perrysburg, Ohio 43551  
 Tel (419) 482-6000  
 Fax (419) 482-6001  
 Tolerances - unless otherwise noted.  
 Tolerances are in inches  
 2-PLACE ±.000..... .03  
 3-PLACE ±.000..... .015  
 ANGULAR ± .....1'  
 FRACTIONAL ± .....1/16"  
 Break all sharp corners unless otherwise specified.

THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF CARGOTEC USA INC, HIAB, 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.

Dwg/Cad file no.  
**118/ SALES**

Drawing Title:  
**HIAB 118B-3 HIDUO**

Project Name:  
**SALES LAYOUT**

Drawn by/Date:  
**PWP 5-6-21**

Size: Part No.  
 Scale: unit wt. Eng. Job no.:  
**53901**