



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 10,830 LBS.
TOTAL WEIGHT ON REAR AXLE	= 25,230 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
REAR AXLE WT. PERCENTAGE	= 70 %
GROSS VEHICLE WEIGHT	= 36,060 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 12,570 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 27 %
REAR AXLE WT. PERCENTAGE	= 73 %
GROSS VEHICLE WEIGHT	= 46,570 LBS.
WATER LEVEL PAYLOAD	= 10,510 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SBA
WHEELBASE	= 254"
CAB TO TANDEM	= 188 1/2"
AXLE-TO-FRAME	= 174
FRONT AXLE CURB WEIGHT	= 10,857 LBS.
REAR AXLE CURB WEIGHT	= 7,270 LBS.
FRONT G.A.W.R.	= 18,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.
YIELD STRENGTH OF EACH CHASSIS FRAME	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 23.80 in. <sup>^3</sup>
MINIMUM RBM/RAIL OF 2,816,033 IN-LBS	

**NOTES:**  
 DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.  
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:  
 8"X4"X3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 6"X4"X3/8" RECT. TUBING (CROSS MEMBERS)  
 AN ESTIMATED BODY WEIGHT WAS PROVIDED BY CAHABA.  
 CURB WEIGHTS WERE PROVIDED.

TRUCK RUNS IN US (RULES FOR MOST STATES).  
 20,000 LBS. ALLOWED ON FRONT AXLE.  
 34,000 LBS. ALLOWED ON TANDEM.  
 53,000 LBS. ALLOWED GROSS WEIGHT (23').  
 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.

<b>Cargotec USA</b> 12233 Williams Road Perrysburg, Ohio 43051 Tel (419) 482-6000 Fax (419) 482-6001 <small>Tolerances - unless otherwise noted.                  Tolerances are in inches.                  2-PLACE ±.00..... .03                  3-PLACE ±.000..... .015                  ANGULAR ± .....1'                  FRACTIONAL ± .....1/16"                  Break all sharp corners unless otherwise specified.</small>	THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF CARGOTEC USA, 12233 WILLIAMS RD, PERRYSBURG, OHIO 43051 AND IS CONFIDENTIAL. IF 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. Next Assy:	Drawing Title: <b>235LL-1 HI-PRO</b>			
		Project Name: <b>SALES LAYOUT</b>			
		Dwg/Cad file no.	Drawing by: Date: <b>SMG 4-7-20</b>	Size:	Part No.
		Approval:	Date Approved:	Scale: unit wt.	Eng. job no.: