



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 11,410 LBS.
TOTAL WEIGHT ON REAR AXLE	= 24,360 LBS.
FRONT AXLE WT. PERCENTAGE	= 32 %
REAR AXLE WT. PERCENTAGE	= 68 %
GROSS VEHICLE WEIGHT	= 35,770 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 13,690 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 29 %
REAR AXLE WT. PERCENTAGE	= 71 %
GROSS VEHICLE WEIGHT	= 47,690 LBS.
WATER LEVEL PAYLOAD	= 11,920 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SBA
WHEELBASE	= 254"
CAB TO TANDEM	= 188 1/2"
AXLE-TO-FRAME	= 156"
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. ³
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)
 CAHABA TRUCK WEIGHT WAS ESTIMATED.
 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.

Cargotec USA
 Cargotec USA
 12233 Williams Road
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 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.

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Next Assy: **235LL / SALES**
 Dwg/Cad file no.

Drawing Title:		235LL-1 HI-PRO	
Project Name:		SALES LAYOUT	
Drawn by/Date:	SMG 4-21-20	Size:	Part No.
Approval:	Date Approved:	Scale:	unit wt.
		Eng. job no.:	