



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 13,270 LBS.
TOTAL WEIGHT ON REAR AXLE	= 14,940 LBS.
FRONT AXLE WT. PERCENTAGE	= 47 %
REAR AXLE WT. PERCENTAGE	= 53 %
GROSS VEHICLE WEIGHT	= 28,210 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 14,190 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 29 %
REAR AXLE WT. PERCENTAGE	= 71 %
GROSS VEHICLE WEIGHT	= 48,190 LBS.
WATER LEVEL PAYLOAD	= 19,980 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER M2-106
WHEELBASE	= 262"
CAB TO TANDEM	= 196"
AXLE-TO-FRAME	= 120"
FRONT AXLE TARE WEIGHT	= 8,500 LBS.
REAR AXLE TARE WEIGHT	= 7,600 LBS.
FRONT G.A.W.R.	= 16,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.

YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
*120,000 P.S.I. YIELD	= 16.41 in. ³
MINIMUM RBM/RAIL OF 1,968,040 IN-LBS	

*RBM REQUIREMENT DETERMINED BY CRANE

NOTES:
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:
 4"x4"x3/8" SQ. TUBING (ON TOP OF FRAME RAIL)
 3"x3"x 3/8" SQ. TUBING (CROSSMEMBERS)
 BODY AND LIFT GATE WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS ARE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 16,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 50,000 LBS. ALLOWED FOR GROSS WEIGHT.
 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.

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Tolerances - unless otherwise noted.
 Tolerances are in inches
 2-PLACE ±.00..... .05
 3-PLACE ±.000..... .015
 ANGULAR ± ±
 FRACTIONAL ± 1/16"
 Break all sharp corners unless otherwise specified.

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Drawing Title:
 HIAB 188E-4 HIDUO

Project Name:
 SALES LAYOUT

Drawn by: CSV	Date: 7-28-17	Size: C	Part No.:
Approval:	Date Approved:	Scale: N/A	Eng. job no.:

Next Assy.
 Dwg/Cad file no. 188 / SALES