



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.

TOTAL WEIGHT ON FRONT AXLE	= 16,750 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 22,320 LBS.
FRONT AXLE WT. PERCENTAGE	= 43 %
TANDEM AXLE WT. PERCENTAGE	= 57 %
GROSS VEHICLE WEIGHT	= 39,070 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.

TOTAL WEIGHT ON FRONT AXLE	= 18,960 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
TANDEM AXLE WT. PERCENTAGE	= 55 %
LIFT AXLE WT. PERCENTAGE	= 14 %
GROSS VEHICLE WEIGHT	= 61,460 LBS.
PAYLOAD EVENLY DISTRIBUTED	= 22,390 LBS.

TRUCK SPECIFICATIONS

TRUCK MODEL	= VOLVO VHDF
WHEELBASE	= 291"
CAB TO TANDEM	= 206 1/2"
AXLE-TO-FRAME	= 137"
FRONT CURB WEIGHT	= 9,168 LBS.
TANDEM CURB WEIGHT	= 9,314 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 32.01 in. ³
MINIMUM RBM/RAIL OF 3,841,749 IN-LBS	

NOTES:

FRAME RAIL MUST MEET OR EXCEED THE MIN. RBM REQUIRED.
FULL LENGTH SUB-FRAME REQUIRED:
6" x 4" x 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)
5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
FLATBED WEIGHT IS 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 AXLE.
42,500 LBS. ALLOWED ON TRIDEM. (9')
62,500 LBS. ALLOWED FOR GROSS WEIGHT. (31')
LEGAL OVERALL LENGTH IS 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, Inc.

Hiab, Inc.
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Tolerances - unless otherwise noted.
2-PLACE ±.000... .03
3-PLACE ±.000... .015
ANGULAR ±.000... .1/16"
FRACTIONAL ±.000... .1/16"
Break all sharp corners
unless otherwise specified.

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APPROVAL IS REQUIRED FOR EXPOSURE OF THIS
DRAWING TO OTHERS FOR ANY PURPOSE.

Next Assy.

Dwg/Cad file no.

352 / SALES

Drawing Title:

HIAB 352E-5 JIB 100X2 HIPRO

Project Name:

SALES LAYOUT

Drawn by: Date:

J W

Approval:

6-4-19

Date Approved:

Size:

Scale:

Part No.

unit wt.

Eng. Job no.: