



**TRUCK, MOFFETT & ACCESORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.**

TOTAL WEIGHT ON FRONT AXLE = 9,720 LBS.  
 TOTAL WEIGHT ON TANDEM AXLE = 25,470 LBS.  
 FRONT AXLE WT. PERCENTAGE = 28 %  
 TANDEM AXLE WT. PERCENTAGE = 72 %  
 GROSS VEHICLE WEIGHT = 35,190 LBS.

**TRUCK, MOFFETT & ACCESORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.**

TOTAL WEIGHT ON FRONT AXLE = 11,160 LBS.  
 TOTAL WEIGHT ON LIFT AXLE = 5,000 LBS.  
 TOTAL WEIGHT ON TANDEM AXLE = 34,000 LBS.  
 FRONT AXLE WT. PERCENTAGE = 22 %  
 LIFT AXLE WT. PERCENTAGE = 10 %  
 TANDEM AXLE WT. PERCENTAGE = 68 %  
 GROSS VEHICLE WEIGHT = 50,160 LBS.  
 WATER LEVEL PAYLOAD = 14,970 LBS.

**TRUCK SPECIFICATIONS**

TRUCK MODEL = WESTERN STAR 4700SB  
 WHEELBASE = 267"  
 CAB TO TANDEM = 203 1/2"  
 AXLE TO FRAME = 90 1/2"

FRONT AXLE TARE WEIGHT = 10,910 LBS.  
 TANDEM AXLE TARE WEIGHT = 9,139 LBS.  
 FRONT G.A.W.R. = 20,000 LBS.  
 TANDEM G.A.W.R. = 46,000 LBS.

YIELD STRENGTH OF EACH FRAME RAIL = 120,000 PSI  
 MINIMUM SECTION MODULUS REQUIRED = 20.19 in.<sup>3</sup>

MINIMUM RBM/RAIL = 2,423,050 IN-LBS.

**NOTES:**

DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL WITH THE MINIMUM RBM REQUIRED.  
 FLATBED WEIGHT IS ESTIMATED.  
 CURB WEIGHTS WERE PROVIDED.

**TRUCK RUNS IN CT, NY, & PA.**

18,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
 34,000 LBS. ALLOWED ON TANDEM AXLE.  
 42,500 LBS. ALLOWED ON TRIDEM (9').  
 58,000 LBS. ALLOWED FOR GROSS WEIGHT.  
 MAXIMUM 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.**

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

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**Next Assy.**

Dwg/Cad file no.

**MOFFETT / SALES**

**Drawing Title:**

**M55P 12'-0" MAST**

**Project Name:**

**SALES LAYOUT**

**Drawn by/Date:**

CSV 12-12-17

Approval: Date Approved:

**Size: Part No.**

Scale: unit wt.

Eng. Job no.: