



TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 9,510 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 12,200 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 19,400 LBS.
GROSS COMBINATION WEIGHT	= 41,110 LBS.

TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 9,510 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 21,780 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 34,000 LBS.
WATER LEVEL PAYLOAD	= 24,180 LBS.
GROSS COMBINATION WEIGHT	= 65,290 LBS.

TRACTOR SPECIFICATIONS	
TRACTOR MODEL	= FREIGHTLINER M2-112
WHEELBASE	= 148"
CAB TO TANDEM	= 84"
AXLE-TO-FRAME	= 56"
FRONT AXLE CURB WEIGHT	= 9,000 LBS.
REAR AXLE CURB WEIGHT	= 8,000 LBS.
FRONT G.A.W.R.	= 14,000 LBS.
REAR G.A.W.R.	= 44,000 LBS.

NOTES:  
TRACTOR AND TRAILER CURB WEIGHTS ARE ESTIMATED.  
TOTAL TRAILER WEIGHT AND TRAILER TANDEM WEIGHT  
REQUIRED FOR AN ACCURATED CALCULATION.

TRACTOR TRAILER RUNS IN US (RULES FOR MOST STATES).  
14,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
34,000 LBS. ALLOWED ON TANDEMS.  
47,000 LBS. ALLOWED FOR 15' BRIDGE.  
63,500 LBS. ALLOWED FOR 32' BRIDGE.  
74,000 LBS. MAX. GROSS COMBINATION WEIGHT.  
MAXIMUM TRAILER LENGTH = 53'  
MAXIMUM OVERALL LENGTH = 65'

TRAILER SPECIFICATIONS	
YIELD STRENGTH OF EACH STEEL I-BEAM	MINIMUM SECTION MODULUS REQUIRED
80,000 P.S.I. YIELD	= 31.10 in. <sup>3</sup>
100,000 P.S.I. YIELD	= 24.88 in. <sup>3</sup>
120,000 P.S.I. YIELD	= 20.74 in. <sup>3</sup>
MINIMUM RBM/I-BEAM OF 2,488,800 IN-LBS	

**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>Hiab, Inc.</b> Hiab, Inc. 12233 Williams Road Perrysburg, Ohio 43551 Tel (419) 482-6000 Fax (419) 482-6001 <small>Tolerances - unless otherwise noted.                  Tolerances are in inches                  2-PLACE ±.000..... .05                  3-PLACE ±.000..... .015                  ANGULAR ± ..... /16"                  FRACTIONAL ± ..... /16"                  Break all sharp corners                  unless otherwise specified.</small>		THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF HIAB, INC., 12233 WILLIAMS RD, PERRYSBURG, OHIO 43551 AND IS CONFIDENTIAL. IT 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.		Drawing Title: <b>MOFFETT M80, 10' MAST</b>	
Next Assy.		Project Name: <b>SALES LAYOUT</b>		Drawing by: Date: CSV 2-8-16	
Dwg/Cad file no. <b>MOFFETT / SALES</b>		Approval: Date Approved:		Size: Part No. Scale: unit wt. Eng. Job no.:	