



REV. PART NO. **M2427**

TOTAL = (6) BUNDLES @ 2,600 = 15,600 LBS.

MOFFETT
FORK-LIFT
M55 BS
12' MAST

TRUCK, MOFFETT & ACCESORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 8,940 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 23,080 LBS.
FRONT AXLE WT. PERCENTAGE	= 28 %
TANDEM AXLE WT. PERCENTAGE	= 72 %
GROSS VEHICLE WEIGHT	= 32,020 LBS.

TRUCK, MOFFETT & ACCESORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 10,470 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 5,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,650 LBS.
FRONT AXLE WT. PERCENTAGE	= 22 %
LIFT AXLE WT. PERCENTAGE	= 12 %
TANDEM AXLE WT. PERCENTAGE	= 66 %
GROSS VEHICLE WEIGHT	= 47,620 LBS.
SPECIFIED PAYLOAD	= 15,650 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD
WHEELBASE	= 277"
CAB TO TANDEM	= 211 1/2"
AXLE TO FRAME	= 91"
FRONT AXLE TARE WEIGHT	= 9,700 LBS.
TANDEM AXLE TARE WEIGHT	= 8,600 LBS.
FRONT G.A.W.R.	= 18,000 LBS.
TANDEM G.A.W.R.	= 40,000 LBS.

YIELD STRENGTH OF EACH FRAME RAIL		MINIMUM SECTION MODULUS REQUIRED	
110,000 PSI YIELD	= 17.05 in. ³	110,000 PSI YIELD	= 17.05 in. ³
120,000 PSI YIELD	= 15.63 in. ³	120,000 PSI YIELD	= 15.63 in. ³
MINIMUM RBM/RAIL = 1,875,938 IN-LBS.			

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL WITH THE MINIMUM RBM REQUIRED.
 FLATBED & LIFT AXLE WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS ARE ESTIMATED.

* WATER LEVEL PAYLOAD = 18,570 LBS.
 TRUCK RUNS IN TEXAS.
 18,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 42,500 LBS. ALLOWED ON 3 AXLE GROUP. (9')
 59,650 LBS. ALLOWED FOR 4 AXLES. (25')
 MAXIMUM LEGAL OVERALL LENGTH IS 45'.

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	± 0.00..... .03
3-PLACE	± 0.00..... .015
ANGLES	± 1'
FRACTIONAL	± 1/16"

Break all sharp corners unless otherwise specified.

Next Assy.
 Dwg/Cad file no. **MOFFETT / SALES**

Drawing Title: **MOFFETT FORK-LIFT M55 12' MAST**

Project Name: **SALES LAYOUT**

Drawn by: CSV	Date: 2-23-17	Size:	Part No.:
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.: