



WALPOLE TOWER

SAE Turning Radius Calculations for Quote No. 87308				
Wheelbase:	250"	Front Bumper Size:	10"	
Body Width:	100"	Front Bumper Extension:	20"	
Front Axle Kingpin Center:	71"	Front Wheel Type:	ALUMINUM	
Front Axle Track:	84.36"	Rear Wheel Type:	ALUMINUM	
Front Axle Tire Width:	16.2"	Tire Brand:	MICHELIN	
Dimension Over Rear Tires:	98.59"			
Body Front Overhang:	92"			
Inside Cramp Angle	S. A. E. Turning Radius	Tire Curb Clearance	Bumper Swing Clearance	Minimum Inside Radius
35	41.9'	42.5'	46.6'	28.6'
36	40.9'	41.6'	45.8'	27.5'
37	40.1'	40.7'	45'	26.5'
38	39.2'	39.9'	44.2'	25.5'
39	38.4'	39.1'	43.5'	24.6'
40	37.7'	38.4'	42.8'	23.7'
41	37'	37.7'	42.2'	22.8'
42	36.3'	37'	41.6'	22'
43	35.7'	36.3'	41'	21.2'
44	35.1'	35.7'	40.4'	20.4'
45	34.5'	35.1'	39.9'	19.7'
46	33.9'	34.6'	39.4'	19'
47	33.4'	34'	39'	18.3'
48	32.9'	33.5'	38.5'	17.6'
49	32.4'	33'	38.1'	17'
50	31.9'	32.6'	37.7'	16.3'
Nominal Cramp Angles:				
Meritor FL941 & FL943 axles: up to and including 425/65R22.5 tires			45 degrees	
Meritor FL941 & FL943 axles: 445/65R22.5 tires			38 degrees	
Dana I220W axle: up to and including 445/65R22.5 tires			42 degrees	
Reyco IFS: up to and including 385/65R22.5 tires			48 degrees	
Reyco IFS: 425/65R22.5 tires			45 degrees	
Reyco IFS: 445/65R22.5 tires without front intake			42 degrees	
Meritor Front Drive Axle: up to and including 425/65R22.5 tires			37 degrees	
Marmon Herrington Front Drive Axle: up to and including 425/65R22.5 tires			42 degrees	
This Turning Radius report reflects how the quote was configured. Any succeeding changes may slightly alter the turning radius of the vehicle and the data in this report.				



TOWN OF WALPOLE
WALPOLE, MA
 S.O. 142115 / QUOTE 87308
 AERIAL BODY
 CYCLONE II X CHASSIS
 HPS100 AERIAL PLATFORM

THIS DRAWING IS FOR REFERENCE PURPOSES. ALL DIMENSIONS ARE SUBJECT TO MINOR VARIATIONS DUE TO MANUFACTURING PROCESSES.

APPROVED FOR PRODUCTION

DESIGNER: BRIAN MASON DATE: 2018-APR-03

COMP.	OPENING	INTERIOR DIMENSION	ROSE LOAD
L1/R1	29W	48H	600' OF 4.00 Lb
L2/R2	46W	60H	
L3/R3	50W	18H	
L4	52W	18H	
R4	15W	32H	
L5	67W	34H	
R5	31W	20H	
L6	15W	8H	
R6	36W	28H	

ITEM	LADDER LENGTH	MODEL NUMBER	QTY
A	35' 2-SECT.	PEL-56	2
B	28' 2-SECT.	PEL-28	1
C	24' 2-SECT.	PEL-24	1
D	20' ROOF	PRL-20	1
E	16' ROOF	PRL-16	2
F	10' FOLDING	FL-10	1

