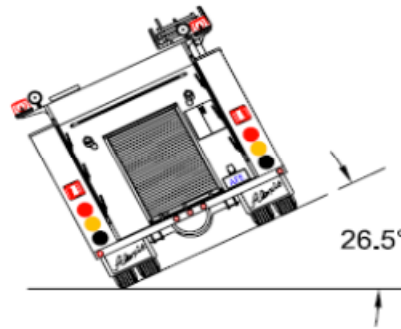
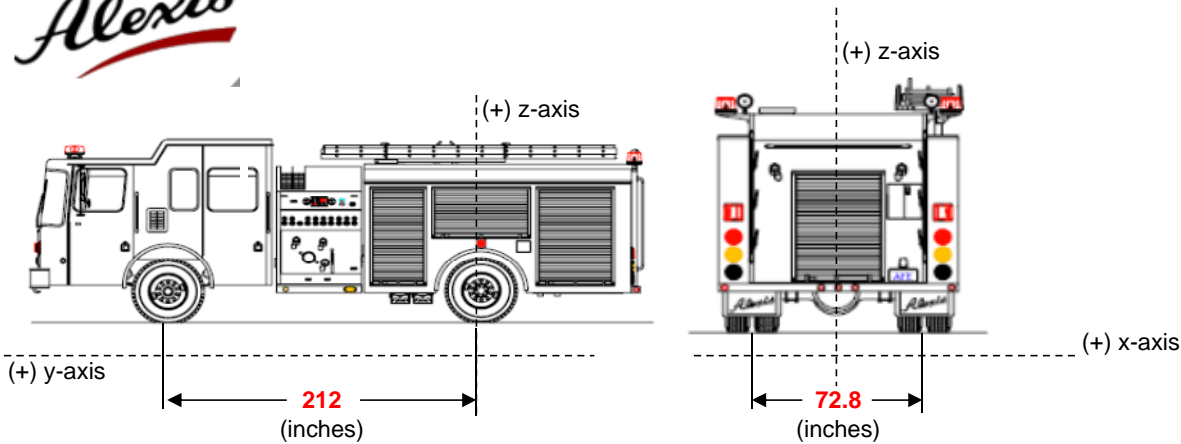


VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

6/6/2016



Contract No: **2282**  
 Proposal Name: **APE DEMO**  
 Calculated By: **Melissa Tinkham**  
 Approved By:  
 Revision: **01 MLT**  
 Type of Chassis: **Freightliner M2 106 2-dr**  
 Type of Pump: **Darley PSM1250gpm**  
 Cab to Axle: **146.45**  
 Tank Capacity: **2000**

Item	Weight (lbs)	Coordinates Local C.G. (in)			% Rear	Weight (lbs)	
		x	y	z		Front	Rear
Chassis	12562	0	128	42	39%	7607	4955
Poly Tank (w/water)	18500	-0.5	31.75	78.5	85%	2771	15729
Officer & Driver	500	0	164	61	23%	387	113
	0	0	0	0	0%	0	0
Pump Module	1200	0	116.5	54.5	45%	659	541
Pump	1400	0	116	45.5	45%	766	634
Body Module (SS)	2000	0	16	39	92%	151	1849
Hose Bed	1000	0	18	105.5	92%	85	915
Add. Equip. front	1500	0	55.5	39	74%	393	1107
Add. Equip. Rear	500	0	-42.5	39	120%	-100	600
Preconnects	600	0	133	81.5	37%	376	224
Dump	250	0	-69	49.5	133%	-81	331
	0	0	0	0	0%	0	0
Suction Hose	100	-40	20	62.5	91%	9	91
Folding Tank	200	34.5	16.5	62.5	92%	16	184
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
Total	40312	<b>Global Center of Gravity</b>				13038	27274
GAWR	44600	x	y	z		14600	30000
Load as % of Total	100%	-0.2	68.6	61.5		32%	68%

Truck Tipping Angle: **30** degrees (Full Water Tank) **OK**

Maximum vertical center of gravity "z" = **58.24** **OK** **OK**  
 ( Maximum "z" is 80% of the rear axle track width) **SC**