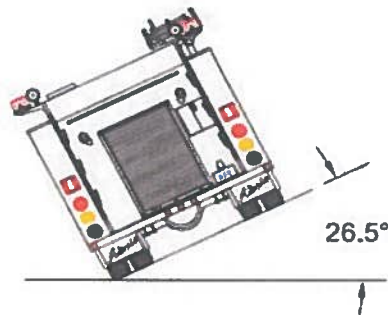
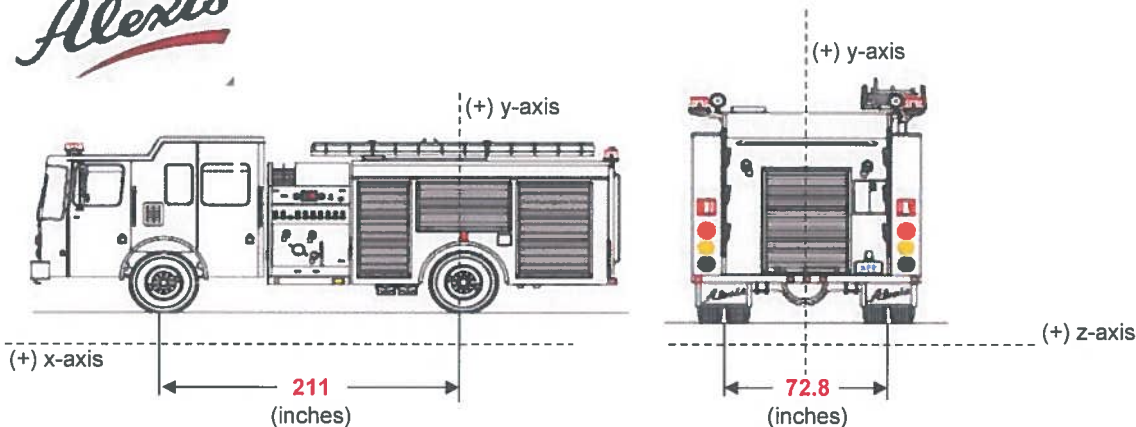


VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

5/11/2016



Contract No:
 Proposal Name: **AFE DEMO**
 Calculated By: **Melissa Tinkham**
 Approved By:
 Revision:
 Type of Chassis: **Freightliner M2 106 2-dr**
 Type of Pump: **Darley PSP 1250gpm**
 Cab to Axle: **145.45**
 Tank Capacity: **1000**

Item	Weight (lbs)	Coordinates Local C.G. (in)			% Rear	Weight (lbs)	
		z	x	y		Front	Rear
Chassis	11865	0	130	42	38%	7311	4554
Poly Tank (w/water)	9250	-0.5	3.5	76	98%	153	9097
Officer & Driver	500	0	161.4	63	24%	382	118
	0	0	0	0	0%	0	0
Pump Module	750	0	84	58	60%	299	451
Pump	1200	-4	87	38	59%	495	705
Body Module	4850	0	11.5	58	95%	264	4586
Hose Bed	1000	0	-16.5	107.5	108%	-78	1078
Add. Equip. front	1250	0	49	56.5	77%	290	960
Add. Equip. Rear	1250	0	-54.5	56.5	126%	-323	1573
Preconnects module	1000	0	128.5	47	39%	609	391
	0	0	0	0	0%	0	0
Ladders & Suction Hose	300	2.5	-2	66.5	101%	-3	303
	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
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
Total	33215	Global Center of Gravity				9400	23815
GAWR	39000	x	y	z		12000	27000
Load as % of Total	100%	-0.3	59.7	57.8		28%	72%

Truck Tipping Angle: 32 degrees (Full Water Tank) OK
 Maximum vertical center of gravity "z" = 58.24 OK
 (Maximum "z" is 80% of the rear axle track width)

HOSE CAPACITIES

5/11/2016

Customer AFE DEMO
 Calculated By Melissa Tinkham

Drawing No. EQ-A56 Rev. _____
 Contract No. _____

HOSE BED

Length	110	
Width	69	
Height	16	
Cu. Ft.	70.28	0.00
Total		70.28

Hose Size				
Amount				
DF	0	0	0	0
Cu. Ft.	0.00	0.00	0.00	0.00
Total		0.00		

MATTYDALES

Length	73	73	
Width	4.5	4.5	
Height	29	29	
Cu. Ft.	5.51	5.51	0.00
Total		11.03	

Hose Size	1 3/4	1 3/4	
Amount	200	200	
DF	26	26	0
Cu. Ft.	3.01	3.01	0.00
Total		6.02	

CARTRIDGE LAYS

Length			
Width			
Height			
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

Hose Size			
Amount			
DF	0	0	0
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

HOSE TRAYS

Length			
Width			
Height			
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

Hose Size			
Amount			
DF	0	0	0
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

HOSE WELLS

Length			
Width			
Height			
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

Hose Size			
Amount			
DF	0	0	0
Cu. Ft.	0.00	0.00	0.00
Total		0.00	

Standard Hose Dimensions per NFPA (2003 Edition)

1 3/4" lays 3 1/4" wide	DF=	26
2" lays 3 3/4" wide	DF=	24 (ANGUS)
2 1/2" lays 4 1/2" wide	DF=	41
3" lays 5 1/4" wide	DF=	50
4" lays 6 1/2" wide	DF=	58
5" lays 8" wide - Angus	DF=	96
5" lays 8-1/2" wide - Cotton	DF=	102

COMPARTMENT SPACE

Department Name:	AFE DEMO	Calc. By:	Melissa Tinkham
Drawing Number:	EQ-A56	Rev. Number:	
Contract Number:		5/11/2016	

[illegible]

TOTAL

226.99 Cubic Ft.