

# Bracket Analysis Report for Test Arm Bracket Analysis

Bid Number: 19-015677

Customer: Sabre

Structure: Model

Model: Test Arm Bracket Analysis

Engineer: mrogers

Date: DateSaved



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**For Office Use Only**

Arm ~ CAI										
Label	Sides	Orientation	Tip OD (in)	Butt OD (in)	Thickness (in)	Length (ft)	Weight (lbs)	Yield (ksi)	Attach Label	Azimuth (deg)
CAI	8	Flat-Flat	9.00	9.00	0.1875	10.00	190.3	65	CAI	180

(4) 1" Dia x 3" Long - A325 Bolts					Bracket ~ YK12-LG						Stiffeners		
Diameter (in)	Total Qty	Center Space	Grade	Usage	Thickness (in)	Opening (in)	Height (in)	Usage	Shear Rupture	Bearing	Qty	Thickness (in)	Width (in)
1	4	4.5	A325	30.85%	0.75	12.125	18	57.55%	25.83%	11.47%	0	0	0.00

Controlling Load Case (absolute value of reactions at pole face)									
Description	Joint Label	Axial, Ft (kips)	Shear, Fv (kips)	Shear, FL (kips)	Moment, Mv (ft-kips)	Torsion, Mt (ft-kips)	Moment, ML (ft-kips)	Governing Element	
DISTRICT : HEAVY (STRENGTH LOAD)	CAI:O	6.59	1.55	7.65	11.19	0.10	42.11	Bolt & Bracket	