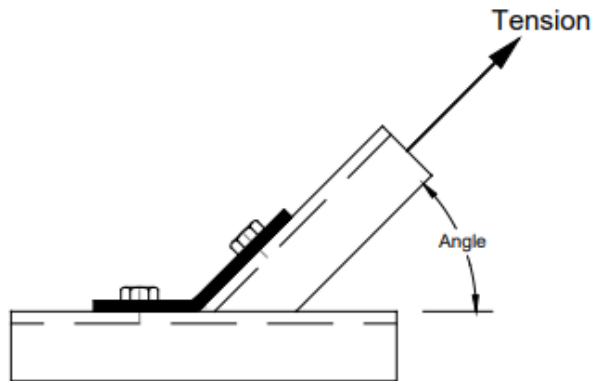


DESIGN LOAD REPORT

Part Description: P1546 & P2094-P2100 (37.5°-82.5° Outside Angle Fittings)

Report Date: August 8, 2022



Part Number	Angle	Avg. Ultimate Tension (lbs)	Design Tension Load (lbs)	Avg. Deflection at Design Tension Load
P2094	82 ½°	7,000	1,500	0.046"
P2095	75°	7,200	1,500	0.081"
P2096	67 ½°	6,900	1,500	0.046"
P2097	60°	6,500	1,500	0.079"
P2098	52 ½°	6,300	1,500	0.059"
P1546	45°	6,200	1,500	0.081"
P2099	37 ½°	6,800	1,500	0.171"
P2100	37 ½°	5,700	1,500	0.169"

NOTES

1. Average Ultimate Loads from Test T-068
2. Testing Based on 1/2"-13 Channel Nut & Cap Screw Torqued to 50 ft-lbs
3. Average Safety Factor = 4
4. Design Loads Limited to 1,500 lbs Slip Load of 1/2"-13 Channel Nuts, SF = 3
5. Deflection is the Average of Straight Line Interpolations of the Deflection Readings at 1,000 lbs and 2,000 lbs Tension Load.
6. Deflection is Measured In the Direction of the Tension Load

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