



TRIANGLE FASTENER CORPORATION

Fastening Systems Design and Engineering Center
Cleveland, OH 44109

P: (216) 351-9933 / F: (216) 351-5008 / www.trianglefastener.com

SUBMITTAL DATA SHEET

Form # PD030105JS

Product Report

Date: 8.30.12

DATA: Screw pullout in aluminum

FASTENER

#12-14 Diameter | 304 Stainless Steel Bi-metal screws by EJOT

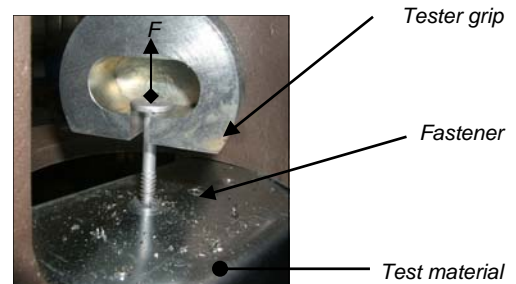
MATERIAL: Aluminum | 6063-T6

RESULTS: *Ultimate average pullout load*



Pullout strengths from aluminum substructure			
T_N [mm] (inches)	195 N/mm ² (28.2824 ksi)	225 N/mm ² (32.6336 ksi)	245 N/mm ² (35.5343 ksi)
0.80mm (0.031496")	0.59 kN (132.63 pound-force lb)	0.67 kN (150.62 pound-force lb)	0.72 kN (161.86 pound-force lb)
0.90mm (0.035433")	0.69 kN (155.11 pound-force lb)	0.78 kN (175.35 pound-force lb)	0.84 kN (188.83 pound-force lb)
1.00mm (0.03937")	0.80 kN (179.84 pound-force lb)	0.90 kN (202.32 pound-force lb)	0.98 kN (220.31 pound-force lb)
1.10mm (0.043307")	0.90 kN (202.32 pound-force lb)	1.03 kN (231.55 pound-force lb)	1.11 kN (249.53 pound-force lb)
1.20mm (0.047244")	1.02 kN (229.30 pound-force lb)	1.17 kN (263.02 pound-force lb)	1.26 kN (283.25 pound-force lb)
1.30mm (0.051181")	1.13 kN (254.03 pound-force lb)	1.29 kN (290.00 pound-force lb)	1.40 kN (314.73 pound-force lb)
1.40mm (0.055118")	1.26 kN (283.25 pound-force lb)	1.44 kN (323.72 pound-force lb)	1.56 kN (350.70 pound-force lb)
1.50mm (0.059055")	1.40 kN (314.73 pound-force lb)	1.60 kN (359.69 pound-force lb)	1.73 kN (388.91 pound-force lb)
2.00mm (0.078740")	2.12 kN (476.59 pound-force lb)	2.43 kN (546.28 pound-force lb)	2.64 kN (593.49 pound-force lb)

TYPICAL SETUP



Approved By

Joe Stager
VICE PRESIDENT
Product Development and Marketing

DISCLAIMER: PULLOUT LOADS WERE A RESULTS OF LABORATORY TESTS. APPROPRIATE FACTORS OF SAFETY SHOULD BE USED BY THE USER OR SPECIFIER. CONSULT ENGINEERING PROFESSIONAL WHEN SPECIFY FASTENERS TO DETERMINE ANY LOADS AND CONDITIONS THAT COULD EFFECT THE FASTENER'S PERFORMANCE. BECAUSE APPLICATION CONDITIONS VARY AND ARE UNCONTROLLABLE BY TFC, WE ASSUME NO LIABILITY FOR THE USE OF THIS INFORMATION EITHER EXPRESSED OR IMPLIED.