



AEROSMITH FASTENING SYSTEMS – May, 2018
TECHNICAL BULLETIN #114

Aerosmith Fastener Ultimate Withdrawal Values in 1/4” (nominal) Thick Aluminum
Tested: July, 2015

Tests Performed by Progressive Engineering, Inc. Goshen, Indiana (www.p-e-i.com)

Test Method:

Per ASTM D1761 – Fastener Withdrawal Test

A 0.254” thick aluminum framing member was clamped to a rigid platform on a Tinius-Olsen Machine. A slotted loading device was set under the fastener head and attached to the upper platen of the Tinius loading machine. Load was applied at a constant rate until the fastener was completely withdrawn and the maximum force was recorded.

Aerosmith® Brand Pin Item # 5574; nominal 0.145”X 2-1/4”	Ultimate Load (pounds/foot)
Sample #	
1	2,442
2	2,447
3	1,752
4	2,203
5	2,743
6	2,114
7	2,465
8	2,492
9	2,535
10	2,473
Average Ultimate	2,367 lbf

Aerosmith® Brand Pin Item# 3388HD; nominal 0.137”X 1-1/2”	Ultimate Load (pounds/foot)
Sample #	
1	1,505
2	1,577
3	1,749
4	1,174
5	1,649
6	1,592
7	1,165
8	1,293
9	1,418
10	1,683
Average Ultimate	1,481 lbf

Aerosmith Fastening Systems
 5621 Dividend Road
 Indianapolis, IN 46241
 Toll-Free: 800.528.8183
 Tel: 317.243.5959
 Fax: 317.390.6980