

# TYPE III TEST DATA



## Type III Testing

A tension/pull out load was applied to samples using a loading fixture positioned in a calibrated testing machine. ( The triangular tie was positioned in a slot position as indicated.) a proof load of 100 lbs. was applied and held for 30 seconds with a final deflection reading in inches taken prior to continuing to failure.

### TEST RESULTS

Piece #	Proof Load (lbs)	Deflection (ins)	Ultimate Load (lbf)	Comments
9-13-94-1	100	0.057	1,392	Center pull, tie failure
9-13-94-2	100	0.049	1,200	Center pull, tie failure
9-13-94-3	100	0.058	1,160	Center pull, tie failure
9-13-94-4	100	0.016	964	End pull, tie failure
9-13-94-5	100	0.014	1,040	End pull, tie failure
9-13-94-6	100	0.015	1,040	End pull, tie failure
9-13-94-7	100	0.022	1,048	Center pull, tie failure
9-13-94-8	100	0.027	1,272	Center pull, tie failure
9-13-94-9	100	0.034	1,192	Center pull, tie failure
9-13-94-10	100	0.009	1,184	End pull, tie failure
9-13-94-11	100	0.009	1,104	End pull, tie failure
9-13-94-12	100	0.007	1,136	End pull, tie failure

Type III plates with 3/16" triangles.

Test samples 1 through 6 are 14ga., and test samples 7 through 12 are 12ga.

### COMPRESSION TEST RESULTS

Piece #	Proof Load (lbs)	Deflection (ins)	Ultimate Load (lbf)	Comments
2-5-97-1	100	0.020	516	Bent Wire
2-5-97-2	100	0.024	432	Bent Wire
2-5-97-3	100	0.013	454	Bent Wire
2-5-97-4	100	0.012	421	Bent Wire
2-5-97-5	100	0.027	525	Bent Wire
2-5-97-6	100	0.012	415	Bent Wire

14 gauge Type III plate with 3/16" x 5" triangle.

Carbon Steel Yield Strength: 30 - 40 ksi

Stainless Steel Yield Strength: 45 - 55 ksi

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