



Engineers Report

Materials:

1. Steel Shapes:	ASTM A572 (Fy = 50 ksi)
2. Steel Tube:	ASTM A500 (Fy = 46 ksi)
3. Steel Pipe:	ASTM A53 (Fy = 35 ksi)
4. Steel Channel:	ASTM A36 (Fy = 36 ksi)
5. Steel Plate:	ASTM A36 (Fy = 36 ksi)
6. Stainless Steel:	Type 304 (Fy = 31 ksi)
7. Bolts:	ASTM A307 or SS 304

Objective:

The Foremost Objective of this test was to determine roof anchors' compliance with OSHA and ANSI 1.14.1 Window Cleaning Safety Standards. These standards require anchorages to be "Capable of sustaining a 5,000 pound minimum load, in any direction that the load may be applied."

Welds:

All of Skyline Fall protections Anchors welds are performed by professional certified welders, and were inspected by the engineer as compatible and compliant for these tests.

Test Procedure:

The Anchors were mounted on a steel beam wide flange I beam with 5/8"-11 grade 5 threaded rod with standard hex nuts. Force was applied using a EnerPac P391 hydraulic porta power pump with 10,000 psi gauge calibrated by Grand Rapids Scale Company Inc.(see attached results sheet). The load was applied to the stainless steel hoops, simulating the location and force of where a window cleaner would tie off.

Results and Conclusion:

All Anchors were tested incrementally sustaining a 2,500 and 5,000 lb. load with no permanent deformation, and minimal deflection measured. All Anchors were tested to at least 7,500 lbs. No anchors showed any sign of fracture or pullout. Therefore, these anchors comply with OSHA regulations and the ANSI 1.14.1 window cleaning safety standards. These tested anchors are adequate and suitable for window cleaning and building maintenance operations for Fall Arrest and Restraint.

Sincerely,
Lynn Siebers P.E.

A handwritten signature in cursive script that reads "Lynn Siebers".

