

Maximum Load Test Results - Windstreamer Rack
independent lab tests performed by Anamet, Inc. (www.anametinc.com)

U.S. Rack, Inc., 1.888.877.2257 (1.888.usracks)

Tests prove our Truck Racks beat the standard!

TEST APPARATUS AT
ANAMET
LABORATORIES IN
HAYWARD, CA
TESTING THE
WINDSTREAMER
TRUCK RACK

The Windstreamer Truck
Rack shown here in the load
testing apparatus vastly
exceeded standard
requirements



**The WINDSTREAMER
TRUCK RACK,
manufactured
by U.S. Rack:**

Load Rating for one section
of this rack is **250 lbs.**

Actual tested material
failure point was about
1,890 lbs., about a 7.5 to 1
safety margin

Read details below

Truck racks are usually tested through static load testing. A commonly accepted industry standard is that any pickup rack should be able to withstand a static load that is at least 3 times the rated load they are assigned.

This provides a 3 to 1 safety margin.

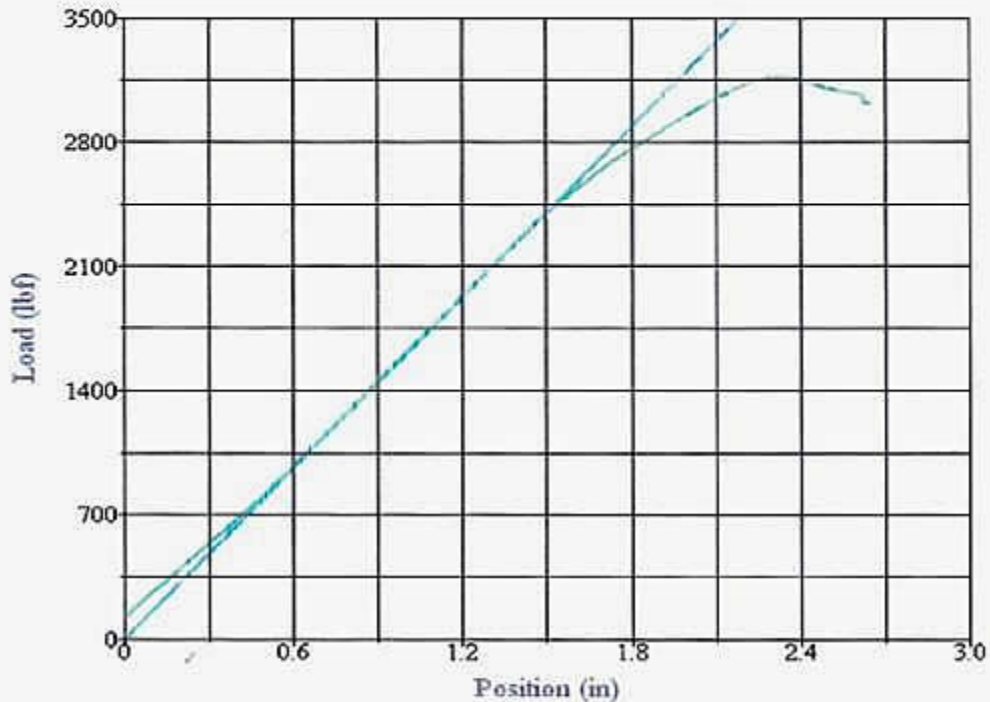
U.S. Rack pickup truck racks all exceed this standard and are tested at the Hayward, California facilities of Anamet, Inc. a respected independent materials testing laboratory. Each pickup rack is tested in a

machine that simultaneously measures vertical load applied to the rack as well as material deflection (bending). Since all materials bend a tiny amount when even the slightest load is applied, it is possible to measure the maximum strength of materials by measuring load and deflection.

In the graph below, the curved line represents the actual deflection of the rack as the load is increased. The straight line represents the theoretical deflection of the material. The upper point where the straight line and curved lines diverge is called the “limit of elastic deflection”. Beyond this point the material will fail and the rack will be permanently bent. Anamet labs provided the below data.

MECH8888

4:47:45 PM 4/20/2011



Test Summary

Counter: 8888
 Elapsed Time: 00:05:17
 Anamet Job Number: 5004.5799
 Specimen Identification: 22B
 Operator: eaf/bek
 Comments: 24" Windstremer
 Procedure Name: Compression Load
 Start Date: 4/20/2011
 Start Time: 10:41:47 AM
 End Date: 4/20/2011
 End Time: 10:47:04 AM
 Workstation: MECH
 Tested By: Brian
 Customer: U.S. Rack

Test Results

Load at Peak Load: 3170.9470 lbf
 Position at Peak Load: 2.3065 in
 Halt of Force Yield: 2482.288 lbf
 Young's Modulus: 1605.5780 lbf / in
 Load at Offset: 1889.7760 lbf

WARNING: This data is provided for information only. **DO NOT** ASSUME BECAUSE LABORATORY TEST RESULTS INDICATE THIS PRODUCT WILL CARRY MORE THAN THE LOAD LIMIT THAT YOU CAN SAFELY EXCEED THIS LIMIT IN ACTUAL USE. STATIC LOADS ARE NOT THE SAME AS THE DYNAMIC LOADS OCCURING DURING USE. OTHER FACTORS, INCLUDING ADDITIONAL LOADING CAUSED BY BRAKING, ACCELERATING, TURNING AND TRAVELING ON SLOPED OR BUMPY SURFACES AMPLIFY FORCES IN ALL DIRECTIONS AND CAN LEAD TO MATERIAL FATIGUE OR FAILURE OF THE RACK OR THE TRUCK BED IF PUBLISHED LOAD LIMITS ARE EXCEEDED. **DO NOT EXCEED LOAD RATING**



BENT WINDSTREAMER RACK SHOWN AFTER THE TEST AT OVER 1,890 lbs.