

Frederick Building Supply Co, Inc.

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www.windowsscaffold.com

RPM WINDOW JACK

ASSEMBLY INSTRUCTIONS

**18" Model (designed for windows with
an opening width of 20" and larger)**

**24" Model (designed for windows with
an opening width of 26" and larger)**

Use option sill plate anchor bracket for use on concrete deck in lieu of angle
anchor

RPM WINDOW JACK LIMITED WARRANTY

AND

DISCLAIMER

LIMITED WARRANTY

Subject to the foregoing conditions and limitations, Frederick Building Supply Co., Inc. (“FBS”) warrants this RPM Window Jack (“Unit”) to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase.

If the Unit should malfunction, it must be returned to the manufacturer for evaluation. FBS’ Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request by the original purchaser, with proof of purchase. Upon examination by FBS, if the Unit is found to be defective it will be repaired or replaced at no charge. FBS’ Limited Warranty does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, unauthorized modification, or abnormal wear and tear. This LIMITED WARRANTY IS VOID if the Unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of FBS’s supplied guidelines of use.

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RPM WINDOW JACK

Parts List.

1. Lock Pins (4 each)
2. Platform
3. Vertical Upper Bracket
4. Vertical Lower Bracket
5. Safety Rail Assembly Set
6. Alternate sill plate anchor
7. Safety Instructions



1. Lock pins x4



2. Platform



3. Upper support



4. Main lower support bracket
with flanged anchor attached



5. Rail assembly set



6. Alternate sill anchor

RPM WINDOW JACK ASSEMBLY

Check our website for a video on assembly
www.windowsscaffolding.com

Window Jack Steps For Assembly.



Step 1.

Lay main support Bracket and Platform flat on the floor in line as shown. Install platform by sliding platform onto lower bracket. Making sure securing angle is facing down illustration #1. Platform rail supports should be away from bottom of main.



Step 2.

lower Bracket and set elevation of platform to height of window sill using lock pins. Keep platform off window sill of window a minimum of 3/8" when adjusting platform height

Slide Platform over



Step 3.

Slide upper support bracket over lower bracket and adjust height to anchor onto wall above. Make sure pads are in the same direction as the platform. Adjust height until 4 x 4 pads are on a sound surface

Slide upper support bracket over lower bracket

Step 4A.
height.



Install lock pins in upper bracket at desired

Step 4B.
platform if necessary.



Check lock pins in lower bracket and adjust height of



Step 5.

Assembly is ready to be installed thru opening with bottom sash of window open. Note: for time efficient we recommend at least 5 windows installed prior to setting up window jack for one man operation to complete task of setting windows



Step 6.

Once the window jack has been inserted through the window attach to the floor via the holes in the angle anchor or alt. sill anchor bracket with the proper fasteners. 12d or equivalent. We recommend duplex nail for easy removal or screws



Step 7.

Once the window jack has been inserted through the window attach to the header via the holes in the upper bracket with the proper fasteners. Minimum of (1) nails in each 4 x 4 pad.



Step 8.

required to have the proper PFA's in use. Install rail either clockwise or counter clockwise make sure cable is inside of rails facing platform.

While installing rails it is



Step 9 .
are installed you may exit onto the window jack wearing the proper PFA's.

Once rails

General Guide Lines & Safety Procedures For Use of the RPM Window Jack

- General Guidelines
- This device provides a temporary working platform which is totally assembled by one user from inside the window being installed.
- This device is to be used for install, removal, and or maintenance of said window.
- Step #1 Worker will temporarily install window securing window with at least 4 nails.
- Step #2 Worker will then install the fully assembled Window Jack from inside the building.
- Once the Window Jack is installed and properly secured with a minimum of 4 three inch nails at the bottom of and a minimum of 2 three inch nails at the top, the said worker will then install the safety rail system on the exterior of the work platform from inside the building. Note: when using atl.sill anchor secure to sill plate filling all holes with 3” nails or equivalent screw.
- Once assembled lower and upper support brackets should be the same distance off the wall, insuring platform is level.
- Once the rail system is installed then and only then is the said worker allowed to exit onto the work platform, while wearing the proper PFA system 100% of the time.
- Capacity is 300 lbs. (140 kg) including weight of the user plus clothing, tools and other user-borne objects.
- Window jack shall be installed and used in accordance with manufacturer’s recommendations.
- **DO NOT ERECT WINDOW JACK NEAR ELECTRIAL POWER LINES UNLESS PROPER PRECAUTIONS ARE TAKEN.** Consult power company for advice.
- **DO NOT USE** ladders or makeshift devices on top of WINDOW JACK to increase the height.
- Rail brackets for platform shall be installed and used in accordance with manufacturer’s recommendations.
- Rail brackets for platform shall be seated correctly resting on stop on top of sleeve. Brackets shall not be bent or twisted from normal position.
- Prior to use, inspect scaffold to insure it has not been altered and is in safe working condition.
- Erected scaffolds and platforms should be inspected continuously by those using them.
- Exercise caution when entering or leaving a work platform.

- Do not overload. Follow manufacturer's safe working load recommendations.
- Do not jump onto platform.
- Do not use ladders or makeshift devices on top of working platforms to increase height or provide access from above.
- Climb in access areas only and **USE BOTH HANDS.**
- **DO NOT ATTEMPT** to install planking from window jack to another platform.
- **WINDOW JACK** shall not act as a supporting element for other forms of scaffolding.

RPM WINDOW JACK

MAINTENANCE SAFETY & SERVICE CHECK LIST

DAILY

- Check all tubing to make sure there are no dents, cracks or bends.
- Check that all pins are installed properly
- Check that safety rail cables are in place, clamps are tight and not worn
- Replace cables as necessary with a minimum 1/4" cable rated to 3,000lb breaking strength

WEEKLY

- Tighten cable clamps

MONTHLY

- Touch up paint with enamel paint only, do not cover stickers
- Replace worn or torn warning stickers

YEARLY

- Replace cables and clamps
- Replace all lock pins
- Replace wheels if necessary

Aluminum Rope Strength



Wrong Way
Eyes Strapped



Right Way
Eyes Strapped





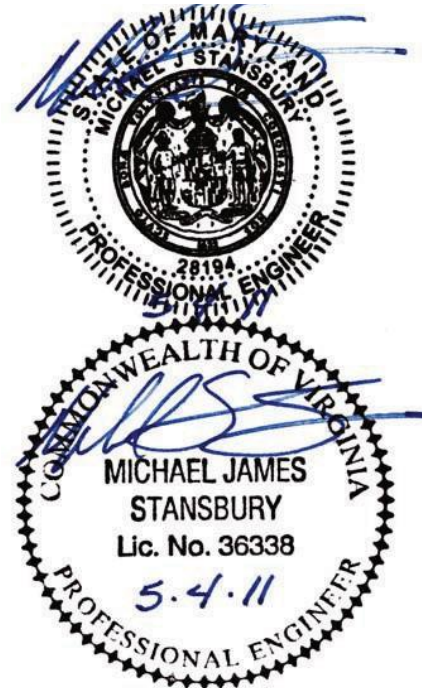
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Window Jack OSHA Testing Report

Testing Conducted January 4, 2011

For R.P.M. Construction Corporation
22300 Dickerson Road
Dickerson, MD 20842-9504

By Cates Engineering
Conducted by: Michael Stansbury, PE





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Executive Summary:

The Occupational Safety and Health Administration (OSHA) regulations 1926.451 and 1926.502 provide for the requirements on scaffold and guardrail systems. This report outlines the testing procedure used to verify the designed window jack system for use on trim installation on wood framed projects and presents the results of the tests. The testing determined that the design met and exceeded OSHA regulations specified.

Window Jack System Design:

The tested window jack system consists of two main components: the vertical adjustable support posts and the projected platform with rails. For this system, ASTM A500, Grade B tube steel, A53 pipe, and A36 angles and plates were utilized throughout. See the attached guardrail details in Appendix A for additional design information.

Prior to initiating the test, the window jack system was installed as shown in the photos in Appendix B. The horizontal and vertical elements of the assembly were checked for levelness and the plates were anchored into place. This anchorage included four (4), 12d nails into the subfloor sheathing and a single 12d nail into each of the top plates of the assembly.

To provide for a means to test the window jack system, the system was installed in two separate locations. First, for the downward force to be placed upon the standing surface, the system was installed as it would be during practice in the field, projected out the window. Then an anchor point was installed in the concrete slab directly below the platform so that the load could be properly applied. Second, the system was installed on an interior doorway in the same fashion so that loads could safely be applied in various directions to the rail above the platform.

Testing Procedure and Results:

The window jack system was tested for the following four loading conditions by applying the load at varying locations and in variable directions on the system:

1. Platform vertical load
2. Platform horizontal load
3. Rail Post horizontal load
4. Rail Chain horizontal load

The platform, when projected out the window, was subject to a maximum 685 pound load located 27" from the vertical system supports. Each of the horizontal tests was completed utilizing a 200 pound loading at the various locations. The tests on the rail were placed horizontal to a point that was 39" above the surface of the platform. The following sections describe the results of each of the loading conditions.



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Test #1 – Platform Vertical Load

Vertical load was applied to the platform. With the apparatus utilized loading was applied in as small of increments as possible. Ultimately we ended up with 685 pounds of vertical load on the platform. The maximum vertical deflection of the outside edge of the platform was 0.75 inches when this maximum loading was applied. The vertical members, inside the window, deflected 1.50 inches from vertical. The load was in place for several minutes while the data was collected without any additional deflection. Both the horizontal platform and the vertical posts returned to their original position upon removal of the loading. We estimated that there is about 3/16” of movement that simply comes from the sleeve action that is necessary for the adjustable portion of the vertical posts.

With a 200 pound vertical load, the deflection was measured to only be 0.25 inches and based upon a section modulus from a 16 gauge steel tube thickness. With that same load on the platform support tubes there was found to be less than half of the allowable design stress in bending and a quarter of the allowable design stress in shear. From this analysis, we find that the base frame can support the design stresses and transfer them to the supporting frame.

Test #2 – Platform Horizontal Load

A horizontal load of 200 pounds was applied to the platform. This load was located on the very outside edge of the platform as can be seen in the photos. This loading resulted in the outside edge of the platform rotating 4.5 inches out of square. This is a rotation of approximately 6.8 degrees. Once the load was removed the system returned to square.

Test #3 – Rail Post Horizontal Load

A horizontal load of 200 pounds was applied to the to the chain anchor point on the corner post of the platform. This load was placed at the very top of the post. This loading resulted in the top of the post deflecting 4” from vertical. The platform showed no measurable vertical or horizontal movement.

Test #4 - Rail Chain Horizontal Load

A horizontal load of 200 pounds was applied to the center of the chain connected between the tops of the outer posts. This loading resulted in the top of the post deflecting 2” from vertical both towards the center and outward towards the load point. The platform showed no measurable vertical or horizontal movement.

Conclusions:

The window jack system was constructed based on the details in Appendix A and was tested in the field as shown in Appendix B to determine if the system meets OSHA 1926.451 and 1926.502 requirements. The testing determined that each of the window jack members and connections met and exceeded the OSHA requirements. The testing showed that the system was able to support a vertical load of as much as 685 pounds and horizontal loads of 200 pounds placed in several directions for a sustained period of several minutes.

RPM WINDOW JACK® PRODUCT REGISTRATION FORM

Fax to: 301-874-4638

Contact Information	
Name	
Company Name	
Email	
Phone	
Fax	
Address	
Product Information	
Model Type	<input type="checkbox"/> 18" Model <input type="checkbox"/> 24" Model
Serial Number	
Purchase Date	
Purchased From	

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