R&S MANUFACTURING AND SALES CO., INC.

TEST REPORT

SCOPE OF WORK
OSHA FALL PROTECTION TESTING ON THEIR LTP FALL PROTECTION SCREEN

REPORT NUMBER
H0953.01-301-44 R0

TEST DATE
6/14/2017

ISSUE DATE
10/17/17

RECORD RETENTION END DATE
6/14/2022

PAGES
7

DOCUMENT CONTROL NUMBER
ATI 00514 (08/24/17)
RT-R-AMER-TEST-2959
© 2017 INTERTEK
TEST REPORT FOR R&S MANUFACTURING AND SALES CO., INC.
Report No.: H0953.01-301-44 R0
Date: 10/17/17

REPORT ISSUED TO
R&S MANUFACTURING AND SALES CO., INC.
3575 Old Conejo Road
Newbury Park, CA  91320

SECTION 1
SCOPE
Intertek Building & Construction (B&C) was contracted by R&S Manufacturing and Sales Co., Inc. to perform fall protection testing in accordance with the referenced standards on their LTP Fall Protection Skylight Screen. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek test facility in Fresno, CA. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2
SUMMARY OF TEST RESULTS
Product Type: Skylight Screen
Series/Model: LTP Fall Protection Screen

The specimens tested successfully met the requirements of OSHA 1926.502(i).

SECTION 3
TEST METHODS
The specimens were evaluated in accordance with the following:

Occupational Safety and Health Administration [OSHA] (2014), 29 CFR §1926.502(i)(2), Covers for holes in floors, roofs, and other walking/working surfaces
OSHA (2014), 29 CFR §1910.23(e)(8), Guarding floor and wall openings and holes
California Code of Regulations [Cal-OSHA], Title 8, §3212 Floor Openings, Floor Holes, Skylights and Roofs

For INTERTEK B&C:

**COMPLETED BY:** Jay Ratliff  
**TITLE:** Technician

**SIGNATURE:** [Signature]
**DATE:** 10/17/17

**REVIEWED BY:** Tyler Westerling, P.E.  
**TITLE:** Senior Project Engineer

**SIGNATURE:** [Signature]
**DATE:** 10/17/17

This report is for the exclusive use of Intertek’s Client and is provided pursuant to the agreement between Intertek and its Client. Intertek’s responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
TEST REPORT FOR R&S MANUFACTURING AND SALES CO., INC.
Report No.: H0953.01-301-44 R0
Date: 10/17/17

SECTION 4
MATERIAL SOURCE/INSTALLATION

The test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of four years from the test completion date. The test specimen was installed into a Douglas fir test curb.

<table>
<thead>
<tr>
<th>ANCHOR DESCRIPTION</th>
<th>LOCATION</th>
<th>SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>#14 x 4&quot; hex washer head</td>
<td>Through Long Channel into Purlin</td>
<td>Joints, mid-span and corners</td>
</tr>
</tbody>
</table>

SECTION 5
EQUIPMENT

Load Cell 005135; Calibration Due: 10/25/2017
M.U.L.E. (Computerized Data Acquisition) 005722; Calibration Due: 5/27/2017

SECTION 6
LIST OF OFFICIAL OBSERVERS

<table>
<thead>
<tr>
<th>NAME</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jay Ratliff</td>
<td>Intertek B&amp;C</td>
</tr>
</tbody>
</table>

SECTION 7
TEST PROCEDURE

Test weights fabricated using bags filled with sand were applied to the top of the test specimen using a contact plate measuring 1-foot square. Each test load was maintained for a minimum of 60 seconds. After removing the test weight, the test specimen was inspected for any signs of damage or failure.

SECTION 8
TEST SPECIMEN DESCRIPTION

Product Type: Skylight Screen
Series/Model: LTP Fall Protection Screen

Product Sizes:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>METRIC</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Area</td>
<td>3.21 m²</td>
<td>34.6 ft²</td>
</tr>
<tr>
<td>Overall Frame Size</td>
<td>1003 x 3200 mm</td>
<td>39-1/2&quot; x 126&quot;</td>
</tr>
<tr>
<td>Overall Mesh Size</td>
<td>864 x 3048 mm</td>
<td>34&quot; x 120&quot;</td>
</tr>
<tr>
<td>Mesh Grid Size (field)</td>
<td>102 x 102 mm</td>
<td>4&quot; x 4&quot;</td>
</tr>
<tr>
<td>Mesh Grid Size (long sides)</td>
<td>70 x 102 mm</td>
<td>2-3/4&quot; x 4&quot;</td>
</tr>
</tbody>
</table>
Construction:

<table>
<thead>
<tr>
<th>MEMBER</th>
<th>MATERIAL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Channel, Bottom C-Channel</td>
<td>Steel</td>
<td>14-gauge galvanized, roll-formed</td>
</tr>
<tr>
<td>Screen</td>
<td>Steel</td>
<td>Welded 3/16&quot; Ø galvanized wire</td>
</tr>
<tr>
<td>Top C-Channel</td>
<td>Steel</td>
<td>18-gauge galvanized, roll-formed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JOINT LOCATION</th>
<th>TYPE</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom C-Channel ends</td>
<td>Fastened</td>
<td>#14 x 4(^n) hex washer head screw through Bottom C-Channel and Long Channel into purlin</td>
</tr>
<tr>
<td>Screen</td>
<td>Captured</td>
<td>Screen sandwiched between slotted C-Channel Top and Bottom halves</td>
</tr>
<tr>
<td>Top C-Channel</td>
<td>Fastened</td>
<td>Attached to Bottom C-Channel with three #12 x 1-1/4(^n) hex washer head screws</td>
</tr>
</tbody>
</table>

SECTION 9
TEST RESULTS

The temperature during testing was 32°C (89°F). The results are tabulated as follows:

**OSHA Safety Test**

<table>
<thead>
<tr>
<th>TEST METHOD</th>
<th>LOAD LOCATION</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 lbf, 1 minute</td>
<td>Center of unsupported mesh area, 1ft(^2)</td>
<td>No Visible Damage</td>
</tr>
<tr>
<td>400 lbf, 1 minute</td>
<td>Center of unsupported mesh area, 1ft(^2)</td>
<td>No Visible Damage</td>
</tr>
<tr>
<td>400 lbf, 1 minute</td>
<td>Center of unsupported mesh area, 1ft(^2)</td>
<td>No Visible Damage</td>
</tr>
</tbody>
</table>

Observations: After removal of the test weight, no visible damage was observed after each test. All tests were performed on the same specimen.

SECTION 10
CONCLUSION

The specimens tested successfully met the performance requirements of OSHA (2014), 29 CFR §1926.502(l)(2) and §1910.23(e)(8); and Cal-OSHA, Title 8, §3212.
SECTION 11
DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.
#12x1-1/4" Self Drilling Fastener
QTY (6)
(Secures Top Channel to Bottom Channel)

SAFETY SCREEN DETAIL

#14x4" Self Drilling Fastener to Purlin
QTY (6)

14 GA Galvanized Long Channel
QTY (2)

Safety Screen
Max 4" Opening
QTY (1)

18/14 GA Galvanized Steel
Short End C-Channels
QTY (2)

18/14 GA Galvanized Steel
Short Center C-Channel
Position Over Purlin (typ)
QTY (1)

VIEW A - CORNER DETAIL*

#12 x 1-1/4"
Secures Top/Bottom
C-Channels (x6)

#14 x 4"
Secures Bottom
C-Channel to Purlin (x6)

* Safety Screen Not Shown

VIEW B - SECTIONAL DETAIL

14 GA Galvanized Long Channel

#14x4" Self Drilling Fastener to Purlin

14/18 GA Galvanized Steel
Short End C-Channel*

PURLIN

* C-Channel Assembly: 18 GA Top, 14 GA Bottom
TEST REPORT FOR R&S MANUFACTURING AND SALES CO., INC.
Report No.: H0953.01-301-44 R0
Date: 10/17/17

SECTION 12
REVISION LOG

<table>
<thead>
<tr>
<th>REVISION #</th>
<th>DATE</th>
<th>PAGES</th>
<th>REVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10/17/17</td>
<td>N/A</td>
<td>Original Report Issue</td>
</tr>
</tbody>
</table>