PERFORMANCE TESTING OF
FIBERGRATE COMPOSITE STRUCTURES
12 FT. DYNARAIL LADDER (PN 444512) MADE WITH FLUTED HEAVY RUNGS
(162910) LADDER W/ RAIL RUNNER SYSTEM

MODEL NUMBER(S): LADDER- PN 444512
RUNG- 162910
RAIL/RUNNER MODEL- GLIDE LOCK
SOLL COMFORT

PRODUCT TYPE: LADDER/RAIL/RUNNER

RENDERED TO:
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Abstract

The Miller GlideLock Soll Comfort runners and Fibergrate ladders model 12 Ft. Dynarail (PN 444512) with Fluted Heavy Rungs (PN 162810) were received in pristine condition on October 10th 2017, and were evaluated in accordance with the client specified sections of the following standards:

*ANSI/ASSE A14.3-08, “American National Standard for Ladders-Fixed”

6 Rail ladder sections were supplied by Fibergrate to attach the Rail Runner GlideLock Soll Comfort2 too. The ladder sections were attached to FRP Brackets on 3”x3”x1/2” angle iron vertical rails with 3/8-inch Grade 8 bolts in 3 locations. The ladder, rail and Glidelock are to be used as a “system”.

Details of the instrument calibration are maintained in laboratory records.

Introduction

This report describes the results of the performance tests conducted in accordance with the client specified sections of the standards listed above and performed on specimens submitted by Fibergrate. Testing of the above mentioned Rail and GlideLock Fall Arrest Device began only upon Intertek’s receipt of the signed quotation number Qu-00810683. Intertek, located in Cortland NY, conducted the test evaluations.

Product Description

Intertek received the following new, unused production samples:

1. Ladders- 12 Ft. Dynarail (PN 444512) with Fluted Heavy Rungs (PN 162810)
2. Rails with Runners- GlideLock Soll Comfort2
3. FRP Brackets (Ladder Mounting Assembly)

Authorization

The test was authorized by a signed quotation number Qu-00810683 dated August 4th, 2017.
**Test Results:**

Results of the tests conducted on specimens of the Glide Lock Rail Runner Model Soll Comfort2 attached to a Fiber Grate Fiberglass Rung Ladder model, 12 Ft. Dynarail (PN 444512) with Fluted Heavy Rungs (PN 162810).

**Test Results, Table 1:**

<table>
<thead>
<tr>
<th>Test Section, Title</th>
<th>Test Description</th>
<th>Requirements &amp; Comments</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.5.2, Dynamic Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Install LSS. Position safety sleeve above ground, connect one end of test lanyard at point that connects to harness, and connect the second point of lanyard to 500 lb. test weight. Raise weight 18-inches and release. Sample shall arrest and suspend the test weight without failure and the test weight shall not strike the ground</td>
<td></td>
<td>PASS</td>
</tr>
<tr>
<td></td>
<td>Sample # 1</td>
<td>Arrest and suspend the test weight without failure</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The test weight shall not strike the ground</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Sample # 2</td>
<td>Arrest and suspend the test weight without failure</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The test weight shall not strike the ground</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Sample # 3</td>
<td>Arrest and suspend the test weight without failure</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The test weight shall not strike the ground</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>7.5.3, Static Strength</td>
<td></td>
<td>PASS</td>
</tr>
<tr>
<td></td>
<td>Install LSS. Position safety sleeve above ground, apply a static load of 1,000 lbs in the downward direction for a period of 5-minutes. Sample shall sustain a minimum static load of 1,000 lbs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sample # 1</td>
<td>sustain a minimum static load of 1,000 lbs.</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Sample # 2</td>
<td>sustain a minimum static load of 1,000 lbs.</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Sample # 3</td>
<td>sustain a minimum static load of 1,000 lbs.</td>
<td>YES</td>
</tr>
</tbody>
</table>
Testing Photo’s
Conclusion

The evaluation of the Fibergrate 12 Ft. Dynarail (PN 444512) with Fluted Heavy Rungs (PN 162810) with Slotted Rigid Rail Runner model Glide Lock Soll Comfort2, has been tested as per the client specified sections of ANSI/ASSE A14.3-08, “American National Standard for Ladders-Fixed”. We have found FiberGrate samples to meet or exceed the requirements of these following standards.

Evaluation Performed by: Matthew Stevens
Technician
Performance Group

Report Reviewed by: Andrew Rulison
Team Leader
Performance Group