



TEST REPORT

Report No.: E7778.01-301-16

Rendered to:

SOLATUBE INTERNATIONAL, INC.
VISTA, CALIFORNIA

PRODUCT TYPE: Tubular Daylight Device – Self Flashing
SERIES/MODEL: 330DS/750DS

SPECIFICATION: Occupational Safety and Health Administration/U.S. Department of Labor Regulations (Standards - 29 CFR) - 1910.23(e)(8), California State OSHA Fall Protection Code of Regulations, Title 8, Section 3212 (e)(1).

Test Date: 05/08/15
Report Date: 06/25/15
Test Record Retention Date: 05/08/19

1.0 Report Issued To: Solatube International, Inc.
2210 Oak Ridge Way
Vista, California 92081

2.0 Test Laboratory: Architectural Testing, Inc.
an Intertek Company ("Intertek-ATI")
4 Rancho Circle
Lake Forest, California 92630
949-460-9600

3.0 Project Summary:

3.1 Product Type: Tubular Daylight Device – Self Flashing

3.2 Series/Model: 330DS/750DS

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s).

3.4 Test Date: 05/08/15

3.5 Test Record Retention End Date: All test records for this report will be retained until May 8, 2019.

3.6 Test Location: Intertek-ATI test facility in Lake Forest, California.

3.7 Test Specimen Source: The test specimens were provided by the client. Representative samples of the test specimens will be retained by Intertek-ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimens reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Todd Anderson	Solatube International, Inc.
Jarod S. Hardman	Intertek-ATI

4.0 Test Specifications:

Each of the units tested met or exceeded the loading requirements for the following standards.

Occupational Safety and Health Administration/U.S. Department of Labor Regulations (Standards- 29 CFR) - 1910.23(e)(8).

California State OSHA Fall Protection Code of Regulations, Title 8, Section 3212 (e)(1)

A 700 lbf weight, fabricated from a bag filled with sand, was placed on the center of each dome for a minimum of 60 seconds. The bag was removed and the test unit was inspected for any signs of damage or failure.

5.0 Test Specimen Description:

5.1 Product Sizes:

330 DS TDD:

Overall Area: 2.40 ft ²	Diameter Width (inches)	Height (inches)
Flashing overall size	33-1/2	8
Dome size	22-3/4	9-5/16

750 DS TDD:

Overall Area: 2.40 ft ²	Diameter Width (inches)	Height (inches)
Flashing overall size	33-1/2	8
Dome size	24	13-1/2

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	Material	Description
Flashing	Steel	Part #200870 (see attached Drawings)

5.0 Test Specimen Description: (Continued)

5.3 Weatherstripping:

Description	Quantity	Location
1/4" x 1/2" peel and stick pile, Part # 600280	1 row	Peel and stick applied around exterior side of the flashing collar under the dome edge <i>(See attached Drawing #600280)</i> .

5.4 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

330 DS Dome Material	Glazing	Glazing Method
Monolithic	Acrylic, Part #509100	Press fit over the flashing with dome spacer, Part #700870, and secured with three #8 x 1-5/8" Phillips truss head screws, Part #700860, spaced evenly around the circumference of the dome.

750 DS Dome Material	Glazing	Glazing Method
Monolithic	Acrylic, Part #401930	Press fit over the flashing with dome spacer, Part #700870, and secured with three #8 x 1-5/8" Phillips truss head screws, Part #700860, spaced evenly around the circumference of the dome.

Location	Quantity	Daylight Opening (inches)	Glass Bite
330	1	Diameter - 21-3/8	1-5/8
750	1	Diameter - 21-3/8	1-3/4

6.0 Installation:

The specimen was installed into a 5/8" plywood buck. The perimeter of the TDD was sealed with 3/4" bead of sealant.

Location	Anchor Description	Anchor Location
Around perimeter of flashing	#10 x 2" Phillips truss head screw, Part #700740	16 fasteners spaced evenly around the circumference of the flashing

7.0 Test Results: The results are tabulated as follows:**7.1 OSHA Safety Test****330 DS TDD:**

Test	Load Location	Results
700 lbf	Center of dome	No visible damage

750 DS TDD:

Test	Results	Maximum Allowed
700 lbf	Center of dome	No visible damage

Note: The 700 lbf weight was gently applied perpendicular to the center of each dome. After 60 seconds of rest time, there was no visible damage to either skylight.

Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For Intertek-ATI


Digitally Signed by: Jarod Hardman

Jarod S. Hardman
Laboratory Manager


Digitally Signed by: Leaton Kirk

Leaton Kirk
Director – Regional Operations

JSH:ss/ms

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Photographs (3)

Appendix-B: Drawings (4)

Appendix-C: Installation Instructions (22)

This report produced from controlled document template ATI 00514, revised 06/26/14.

Appendix A

Photographs



Photo No. 1
750 DS TDD during static loading



Photo No. 2
750 DS TDD after static loading



Photo No. 3
750 DS TDD after static loading



Photo No. 4
330 DS TDD after static loading



Photo No. 5
330 DS TDD after static loading