

**OSHA FALL PROTECTION TEST REPORT**

**Rendered to:**

**VELUX AMERICA INC.**

**SERIES/MODEL: CM**

**PRODUCT TYPE: Fixed Acrylic Glazed Curb Mount Skylight**

**Report No: 88220.01-109-44**

**Revision 1: 01/23/09**

**Test Date: 12/23/08**

**Report Date: 01/19/09**

**Record Retention Date: 12/23/12**

## OSHA FALL PROTECTION TEST REPORT

Rendered to:

VELUX AMERICA INC.  
P.O. Box 5001  
(1418 Evans Pond Road)  
Greenwood, South Carolina 29648-5001

Report No.: 88220.01-109-44  
Revision 1: 01/23/09  
Test Date: 12/23/08  
Report Date: 01/19/09  
Record Retention Date: 12/23/12

**Project Summary:** Architectural Testing, Inc. was contracted by VELUX America Inc. to perform tests on two Series/Model CM, fixed acrylic glazed curb mount skylights. The test specimens description and results are reported herein. The test specimens were supplied by the client.

**Test Specification:** The test specimens were tested to assess compliance with Occupational Safety and Health Administration/U.S. Department of Labor Regulations (Standards- 29 CFR)- 1910.23(e)(8). A 200 lbf weight, fabricated from a bag filled with sand, was placed on the center of the dome for a minimum of 60 seconds.

### **Test Specimen Description:**

**Series/Model:** CM

**Product Type:** Fixed Acrylic Glazed Curb Mount Skylight

#### **Test Specimen #1**

**Overall Size:** 1219 mm (48") wide by 2438 mm (96") high

**Curb Size:** 1181 mm (46-1/2") wide by 2400 mm (94-1/2") high

**Overall Area:** 2.97 m<sup>2</sup> (36.0 ft<sup>2</sup>)

#### **Test Specimen #2**

**Overall Size:** 1829 mm (72") wide by 1829 mm (72") high

**Curb Size:** 1788 mm (70-3/8") wide by 1788 mm (70-3/8") high

**Overall Area:** 3.34 m<sup>2</sup> (32.0 ft<sup>2</sup>)

**Test Specimen Description:** (Continued)

*The following descriptions apply to all specimens.*

**Finish:** All aluminum was anodized.

**Weatherstripping:** No weatherstripping was utilized.

**Glazing Detail:** The skylight dome was constructed of two sheets free blown acrylic, an interior sheet measuring 0.110" thick and an exterior sheet measuring 0.140" thick at the center of the dome. The edges of the acrylic sheets were secured to each other with a layer of double-sided adhesive foam tape. The acrylic dome was set against the aluminum main frame, resting on double-sided adhesive foam tape and secured with an "L" shaped aluminum cover frame. Double-sided adhesive foam tape was utilized between the cover frame and the dome. The cover frame was secured to the main frame with #12 x 1/4" hex head screws, located 5" from each corner and spaced 16" on center.

**Frame Construction:** The frames were constructed of extruded aluminum with mitered and welded corners, with silicone on each corner.

**Installation:** The skylight was installed onto a Spruce-Pine-Fir wood curb with #8 x 1-1/2" long pan head screws, located 5" from the corners and spaced 16" on center through predrilled holes. The test frame was placed on the floor and leveled prior to testing.

**Test Results:** The results are tabulated as follows:

**Test Specimen #1**

<u>Test Method</u>	<u>Load Location</u>	<u>Results</u>
OSHA Safety Test		
200 lbf	Center of dome	No visible damage

**Test Specimen #2**

OSHA Safety Test		
200 lbf	Center of dome	No visible damage

*Note: The 200 lbs weight was gently applied to the center of each dome. After 60 seconds of rest time, there was no visible damage to either skylight.*

Data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice.

Results obtained are tested values and were secured by using the designated test methods. No conclusions of any kind regarding the adequacy or inadequacy of the glazing in the test specimen can be made. 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 specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

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Aaron M. Shultz  
Technician

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Michael D. Stremmel, P.E.  
Senior Project Engineer

AMS:vlm

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

Appendix-A: Photographs (1)

Appendix-B: Drawing (1)

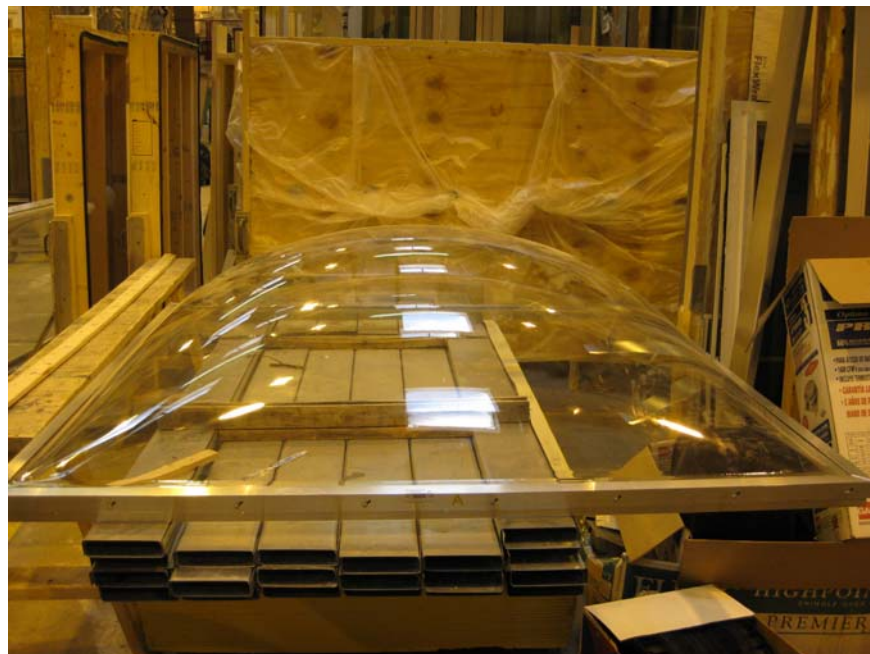
### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	01/23/09	N/A	Original report issue
1	01/23/09	Page 2	Deleted Drop from OSHA Safety Drop Test

**Appendix A**  
**Photographs**



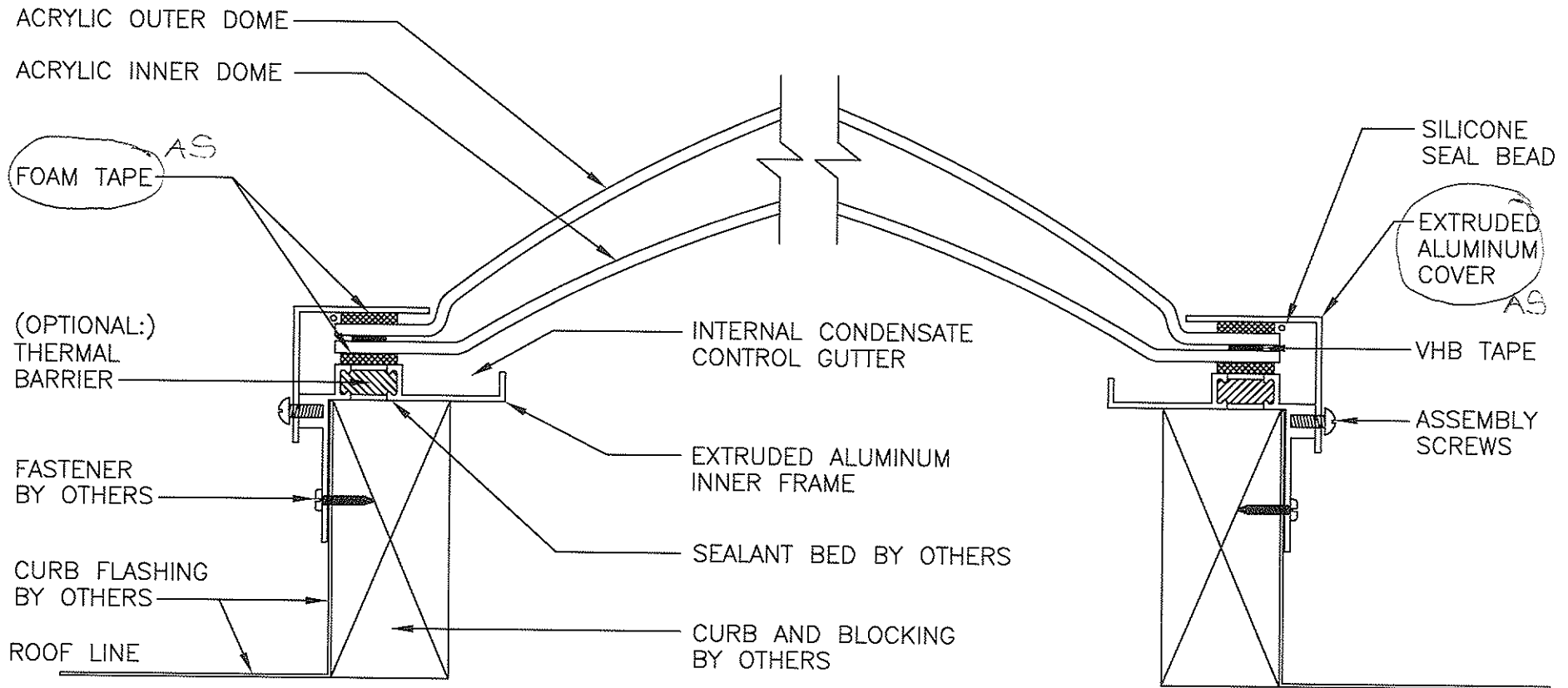
**Photo No. 1**  
**48 x 96 Acrylic Glazed Skylight Before Testing**



**Photo No. 2**  
**72 x 72 Acrylic Glazed Skylight Before Testing**

## **Appendix B**

### **Drawing**



Test sample complies with these details.  
Deviations are noted.

Report# 08220-01-109-44  
Date 1/19/09 Tech AS

<b>VELUX</b> Sky-Product Management	VELUX 1418 Evans Pond Road Greenwood, SC 29648 1-800-58-VELUX www.VELUXUSA.com		Name	Date
	Drawn by Checked by Drawing No.	JDH WQ	Mar. 05 Mar. 05	
Commercial Curb Mounted Acrylic Skylight Double Dome Model CM - 1			CM-1_01-0305	