REPORT OF

PRODUCT EVALUATION

CONDUCTED ON A

SKYLIGHT DOME

FOR

BRISTOLITE SKYLIGHTS
401 E. GOETZ AVENUE
PO BOX 2515
SANTA ANNA, CA  92707

REPORT PREPARED BY

INTERTEK TESTING SERVICES NA LTD.
1500 BRIGANTINE DRIVE
COQUITLAM, BC V3K 7C1
CANADA

REPORT NUMBER: 3075015-3

DATE: MAY 18, 2005
TABLE OF CONTENTS

TABLE OF CONTENTS ......................................................................................... 1
PREFACE ............................................................................................................. 2
INTRODUCTION .................................................................................................. 3
PRODUCT DESCRIPTION .................................................................................. 3
TEST PROCEDURES ........................................................................................ 3
TEST RESULTS .................................................................................................. 3
CONCLUSION ..................................................................................................... 4
APPENDIX A DRAWING .................................................................................. 1 page
PREFACE

All services undertaken are subject to the following general policy:

1. This report is for the exclusive use of Intertek Testing Services NA Ltd.'s (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.

2. Only the client is authorized to copy or distribute this report and then only in its entirety. Intertek must first approve any use of the Intertek's name or one of its marks for the sale or advertisement of the tested material, product or service in writing.

3. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product or service is or has ever been under an Intertek certification.
INTRODUCTION

Intertek Testing Services NA Ltd. (Intertek) has performed a Load Test on a Fibreglass Dome Skylight. Testing was conducted on April 26 and May 6, 2005.

The tests were performed in accordance with procedure outlined in *Standard Presentation to California Occupational Safety and Health Standards Board – Proposed State Standard, Title 8, Chapter 4 section 1632.*

PRODUCT DESCRIPTION

Series
- ES-CMG-1-ESA-IR-HW-MF

Designation
- Dome Skylight

Frame
- Frame: extruded aluminum
- Corners: mitred and welded
- Installation: the system was secured to the 2 x 6 test frame through the outer flange about the entire perimeter using #12 x 1-1/2” screws spaced at approximately 12” (305mm)

Overall Size
- Width: 51-1/2” (1308 mm)
- Length: 99-1/2” (2527 mm)

Dome
- Opaque molded fibreglass and acrylic
- Thickness: 0.094”
- Dome was secured about its perimeter to the galvanized steel frame using 0.1880” diameter x 1” SS HEX head screws spaced at 20” to 23-1/2” apart

Drawings
- Set of drawings stamped "Intertek Testing Services" included in Appendix A of this report

TEST PROCEDURE

The sample was installed into a 2 x 6 SPF lumber frame. A hydraulic cylinder with a load transducer (Intertek ID# D2723) and a 12” x 12” (305 mm x 305 mm) 3/4” plywood loading plate, were used to load the dome of the skylight.

TEST RESULTS

<table>
<thead>
<tr>
<th>Load (lbs)</th>
<th>Pass / Fail</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>Pass</td>
<td>Held for 1 minute, slight surface cracking of acrylic shell material</td>
</tr>
<tr>
<td>700</td>
<td>Pass</td>
<td>Dome pushed fully inverted</td>
</tr>
<tr>
<td>2200</td>
<td>Fail</td>
<td>Fibreglass broke tearing it.</td>
</tr>
</tbody>
</table>
CONCLUSIONS

The skylight system described in this report, met the minimum requirements of being capable of safely supporting 400 lbs imposed on one square foot of area.

INTERTEK TESTING SERVICES NA LTD.

Tested by: 
Kazamir Falconbridge
Technologist, Fenestration Products

Reviewed by: 
Heiko Neugebauer AScT
Team Leader, Fenestration Products

HN/jm
APPENDIX A
(Drawing –1 Page)
'ENERGY STAR' CURB MOUNTED SKYLIGHT

MODEL: ES-CMG-1-ESA-IR-HW-MF

SCALE: 3" = 1'-0"

DOME MATERIAL TESTED IN CONFORMANCE WITH:

*OSHA FALL PROTECTION—MEETS OSHA STANDARD 29 CFR 1926.502
HIGH WIND RESISTANT—DOMES OF THIS UNIT HAS EXCEEDED 90MPH UPLIFT IN TESTING

*FALL PROTECTION TESTING HAS BEEN PERFORMED ON BRISTOLITE'S 48" x 96" DOMES

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>INSIDE CURB DIMENSIONS</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4848</td>
<td>47 1/2&quot; x 47 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>4896</td>
<td>47 1/2&quot; x 95 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>6072</td>
<td>59 1/2&quot; x 71 1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

CONDENSATE PROVISION
ALUMINUM CURB FRAME
W/FIRE GUARD
FASTENERS
(BY OTHERS)
ROOFING
(BY OTHERS)

INTEGRAL COUNTER FLASHING
SEALANT AS REQ'D
(BY OTHERS)

1 1/2" WIDE CURB
(BY OTHERS)

INSIDE CURB DIMENSIONS

BRISTOLITE® SKYLIGHTS
401 East Goetz Avenue
Santa Ana, California 92707
* 714.540.8950 / FAX 714.540.5415

CUSTOMER: PREPARED BY: JOB NO:
PROJECT: SUBMITTAL DATE: ARCHITECT:

RFI DRAWING NO: ES-CMG-1-ESA-IR-HW-MF.DWG / 10-1-2004