

REPORT OF

PRODUCT EVALUATION

CONDUCTED ON A

SKYLIGHT DOME

FOR

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

REPORT PREPARED BY

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CANADA

REPORT NUMBER: 3075015-1

DATE: MAY 18, 2005



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## PREFACE

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## INTRODUCTION

Intertek Testing Services NA Ltd. (Intertek) has performed a Load Test on an Acrylic 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**           • SS-CM-HS1-MF
- Designation**   • Dome Skylight
- Frame**           • Frame: 20 gauge galvanized steel (0.039" thick)  
• 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" (305 mm)
- Overall Size**   • Width: 51-1/2" (1308 mm)  
• Length: 99-1/2" (2527 mm)
- Dome**            • Material – "TriTuff" Trans-White Solarex SV  
• Dimensions before forming - .188" x 49.50" x 98"  
• Dome was secured about its perimeter to the galvanized steel frame using 0.1865" diameter x 3/4" SS Tek screws spaced at 11" apart along the long sides of the skylight and 14" apart along the short sides of the skylight
- 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. All loads were placed at the center top of the dome.

## TEST RESULTS

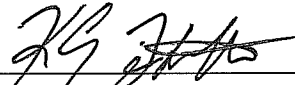
Load (lbs)	Pass / Fail	Comments
400	Pass	Held for 1 minute.
790	Pass	Dome pushed below 2 x 6 frame
2500	Fail	Acrylic failed and plate punched through

**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:

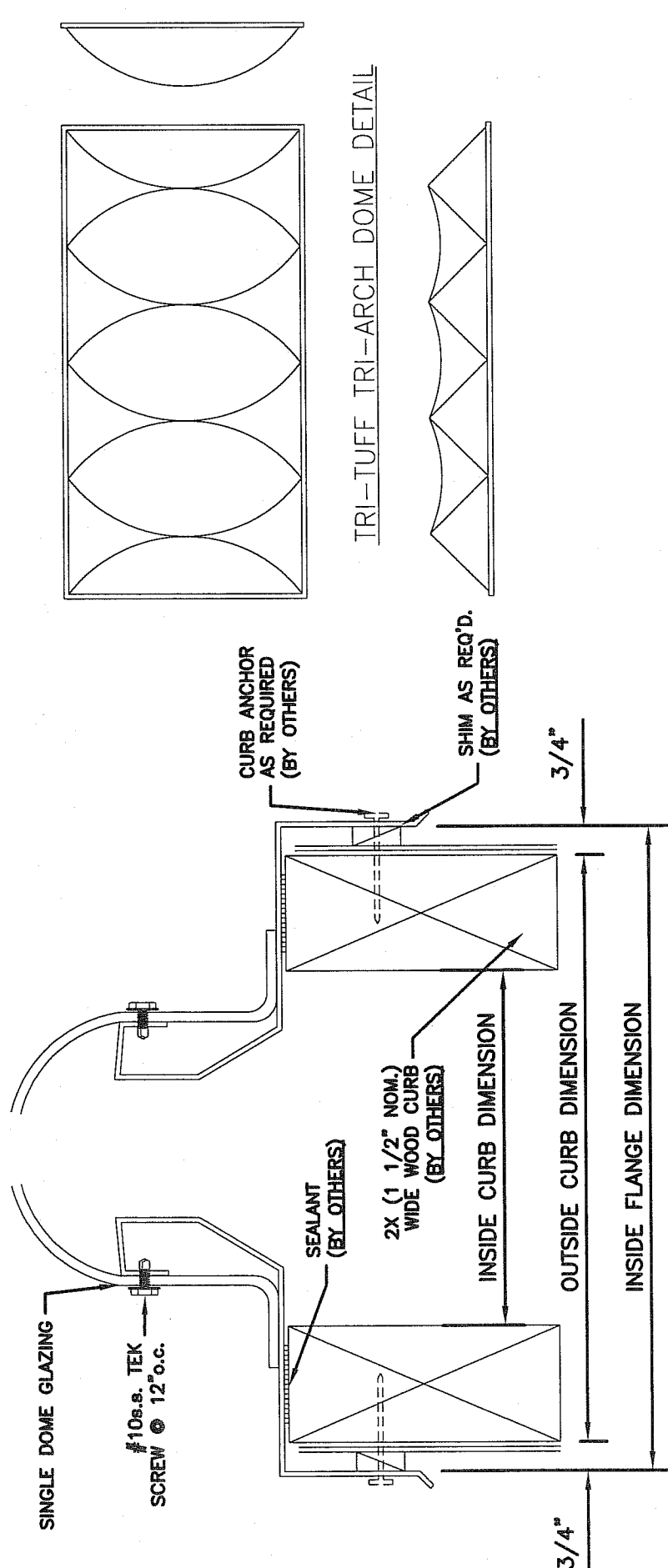
  
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**Technologist, Fenestration Products**

Reviewed by:

  
\_\_\_\_\_  
Heiko Neugebauer ASCT  
**Team Leader, Fenestration Products**

HN/jm

**APPENDIX A**  
**(Drawing -1 Page)**



TRI-TUFF TRI-ARCH DOME DETAIL

### CURB MOUNTED SKYLIGHT

MODEL : SS-CM-HS1-MF  
 N.T.S.  
 SS - GALVANIZED STEEL FRAME  
 CM - CURB MOUNTED  
 HS1 - TRI-TUFF TRI-ARCH DOME  
 MF - MILL FINISH

MODEL NUMBER	INSIDE CURB DIMENSIONS	QTY
4848-SS-CM	48" x 48"	
4896-SS-CM	48" x 96"	

RECTANGULAR

DOMES MATERIAL TESTED IN CONFORMANCE WITH:  
 HIGH WIND RESISTANT-DOME OF THIS UNIT HAS EXCEEDED 90MPH UP-LIFT IN TESTING  
 BURN RATE-CLASSIFIED AS CC1 MATERIAL

CUSTOMER :  
 PROJECT :

PREPARED BY :  
 SUBMITTAL DATE :

JOB NO :  
 ARCHITECT :

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