

SUNOPTICS PRISMATIC SKYLIGHTS TEST REPORT

SCOPE OF WORK

FALL PROTECTION TESTING ON BURGLAR BAR

REPORT NUMBER

J1866.02-301-44

TEST DATE(S)

02/26/19

ISSUE DATE

07/23/19

RECORD RETENTION END DATE

02/26/24

PAGES

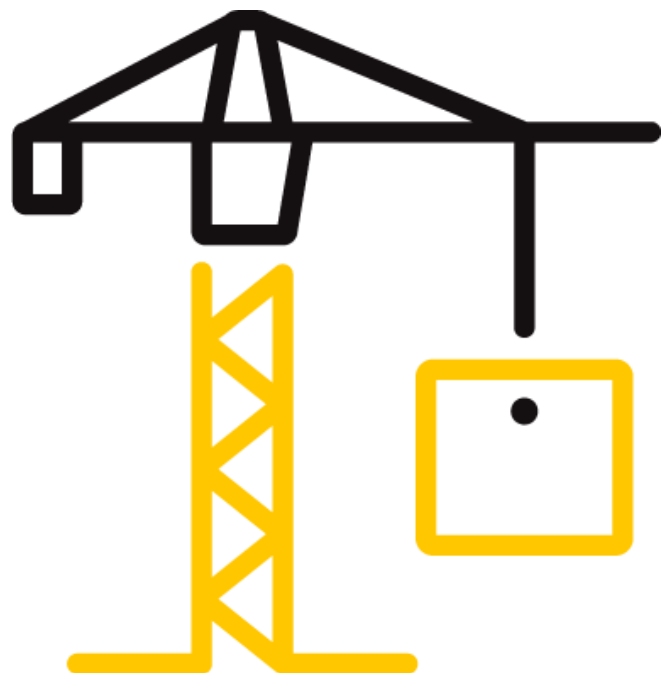
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TEST REPORT FOR SUNOPTICS PRISMATIC SKYLIGHTS

Report No.: J1866.02-301-44

Date: 07/23/19

REPORT ISSUED TO

SUNOPTICS PRISMATIC SKYLIGHTS

6201 27th Street

Sacramento, California 95822

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Sunoptics Prismatic Skylights to perform testing in accordance with OSHA 1926.502(c) *Safety Net Systems* on their BURGB10 Burglar Bar Internal Skylight Guard. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Fresno, California. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

TITLE	RESULTS
Impact Load 1,400 lb-ft	Pass

Product Type: Internal Skylight Guard

Series/Model: BURGB10 Burglar Bar

Size Tested: 1207 mm wide x 2426 mm high (47-1/2" x 95-1/2")

For INTERTEK B&C:

COMPLETED BY:	David Douglass	REVIEWED BY:	Tyler Westerling, P.E.
TITLE:	Project Manager	TITLE:	Senior Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	07/23/19	DATE:	07/23/19

DD:ms

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SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

OSHA 1926 Subpart M, Fall Protection

Section 1926.502(c), Safety Net Systems

"... shall be capable of absorbing an impact force equal to that produced by the drop test..."
"... The drop-test shall consist of a 400 pound (180 kg) bag of sand 30 ±2 inches (76 ±5 cm) in diameter dropped into the net from [at least] 42 inches (1.1 m)..."

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of five years from the test completion date.

The specimen was installed by the client onto test curb fabricated from Douglas fir nominal 2x8 lumber and steel corner braces nailed in place.

ANCHOR DESCRIPTION	LOCATION	SPACING
#12 x 1-1/2" hex washer head screws into top of curb	Long sides	20" on center

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
David Douglass	Intertek B&C
Tyler Westerling	Intertek B&C

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SECTION 6

TEST SPECIMEN DESCRIPTION

Product Type: Internal Skylight Guard

Series/Model: BURGB10 Burglar Bar

Product Size(s):

SIZE	Metric	U.S.
Test Curb (I/D)	1219 x 2438 mm	48" x 96"
Guard size	1207 x 2426 mm	47-1/2" x 95-1/2"

Product Construction:

MEMBER	MATERIAL	DESCRIPTION
Frame	11ga x 1.5" x 1.5" steel angle; painted	One each long side
Grid bars	1/2" dia. steel; painted	Short bars (9) at 10" apart; long bars (2) at 15-3/4" apart

JOINT	TYPE	DETAIL
Short bars	Butted to frame	Welded
Long bars	Laid across short bars	Welded

SECTION 7

TEST RESULTS

The temperature during testing was 17°C (63°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Impact Load			
400 lbm, 42" drop height	Pass	Impact fully absorbed	
5 minutes after impact	Pass	Load maintained	1, 2, 3

General Note: All testing was performed in accordance with the referenced standard(s).

Note 1: The 400 lbm sandbag impacted the designated target area at the center of the guard.

Note 2: After impact, the following observations were made:

- Center anchor screw on each side partially pulled out.
- Wood joints of the test curb were damaged, partially pulling some nails.

Note 3: For 5 minutes following impact, the load remained stationary in place with no further evidence of sagging or other additional damage observed.

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SECTION 8 PHOTOGRAPHS



Photo No. 1
After impact load testing, 400 lbm dropped 42"



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SECTION 9 DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



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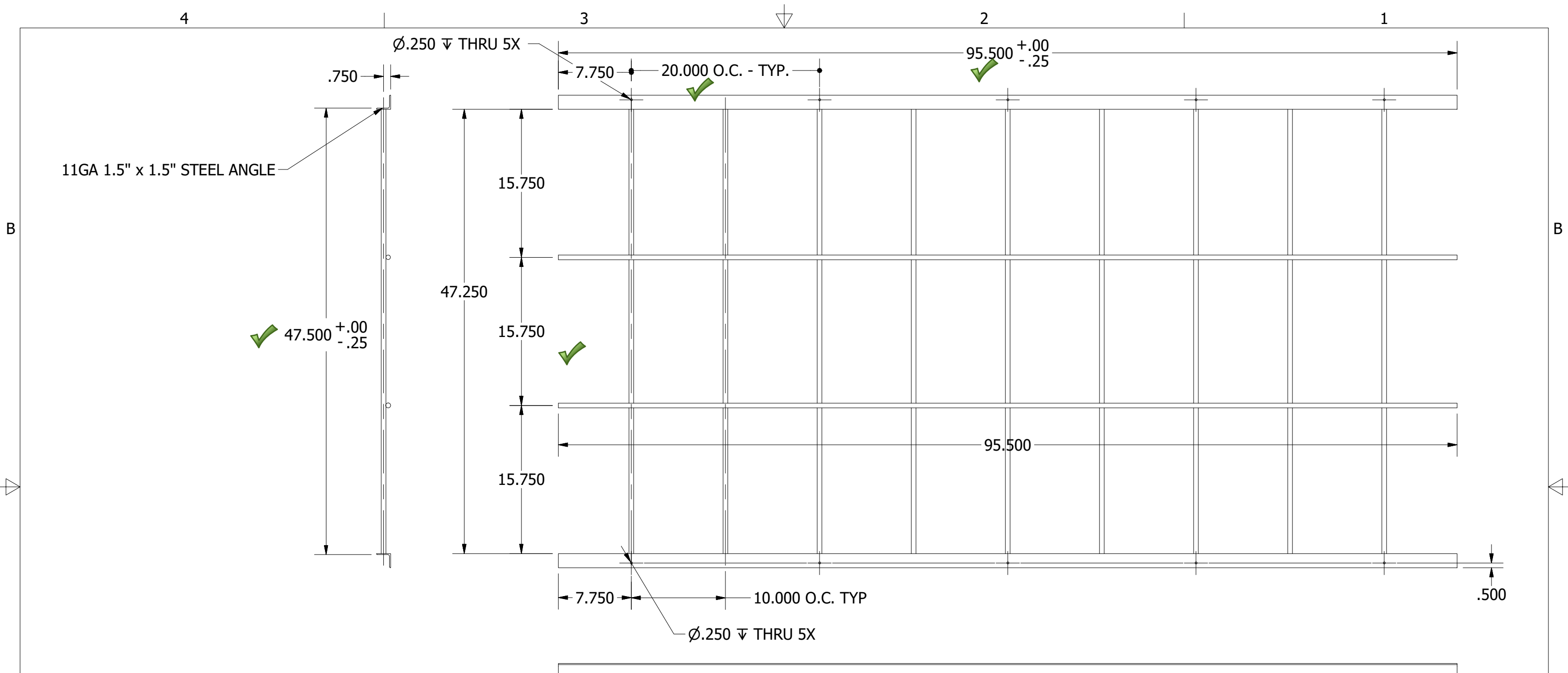
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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 DECIMAL ANGULAR
 .X ±.03 ±.25°
 .XX ±.01
 .XXX ±.005
 SURFACE ROUGHNESS 125/
 REMOVE ALL BURRS AND
 BREAK SHARP EDGES .03 MAX
 SURFACE TEXTURE IN ACCORDANCE
 WITH LATEST ANSI B46.1
 DIMS. & TOL. IN ACCORDANCE
 WITH LATEST ANSI Y14.5

MATERIAL Cold Rolled Steel	DRAWN JME	8/23/2018
FINISH Powder Coat White	CHECKED	
	QA	
	MFG	
	APPROVED	
THIRD ANGLE PROJECTION		

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 High Performance Prismatic Daylighting
 6201 27th STREET
 SACRAMENTO, CA 95822
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TITLE
GUARD 4080 W48 L96 BURGB10

SIZE B	DWG NO *252F06	REV 1
SCALE		SHEET 1 OF 1

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	9 ✓	Rolled Steel - 1/2-47.25	Round Bars
2	2 ✓	Angle 1.5 x 1.5 x .120 - 95.5	Angle Steel
3	2 ✓	Rolled Steel - 1/2-95.5	Round Bars

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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/23/19	N/A	Original Report Issue