

TAYLON SKYLIGHTS TEST REPORT

SCOPE OF WORK

OSHA FALL PROTECTION TESTING ON 4896FPBA AND 4896FPBS

REPORT NUMBER

P8684.01-303-44 R0

TEST DATE

03/16/23

ISSUE DATE

03/28/23

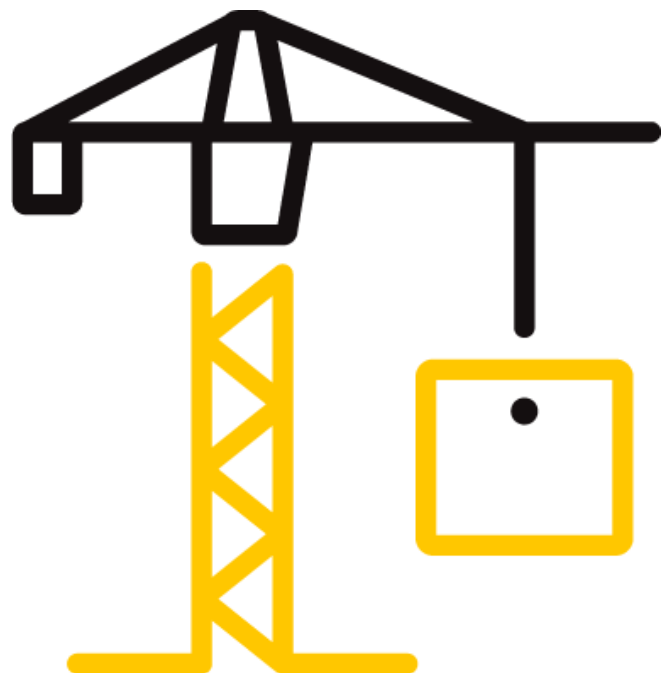
RECORD RETENTION END DATE

03/16/28

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TEST REPORT FOR TAYLON SKYLIGHTS

Report No.: P8684.01-303-44 R0

Date: 03/28/23

REPORT ISSUED TO

TAYLON SKYLIGHTS

2700 Newport Blvd. Suite 184
Newport Beach, California 92663

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Taylon Skylights to perform fall protection testing in accordance with Occupational Safety and Health Administration (OSHA)/U.S. Department of Labor Regulations Standard 29 CFR §1910.23(e)(8) and California Occupations Safety and Health Administration (CalOSHA) Title 8 Article 2 §3212.23(e)(5) on their A-S-CM skylight. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Lake Forest, California. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

Product Type: Skylight Protection Bars

Series/Model: 4896 FPBA and 4896FPBS

The specimens tested successfully met the Safety Test and Safety Drop Test performance requirements of OSHA Standard 29 CFR §1910.23(e)(8) and CalOSHA Title 8 Article 2 §3212(e)(5).

For INTERTEK B&C:

COMPLETED BY:	Luis Sotelo Hernandez
TITLE:	Lab Manager
SIGNATURE:	
DATE:	03/28/23

LSH:MS

REVIEWED BY:	Tyler Westerling, P.E.
TITLE:	Operations Manager
SIGNATURE:	
DATE:	03/28/23

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

29 CFR Ch. XVII §1910.23(e)(8), *Guarding floor and wall openings and holes*. Occupational Safety and Health Administration/U.S. Department of Labor Regulations, 2012.

Title 8 Article 2 §3212(e)(5), *Floor Openings, Floor Holes, Skylights and Roofs*.

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimens were provided by the client. Samples were returned to the customer at the conclusion of testing.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Through curb flashing	#10 x 2" hex head fastener with steel washer bonded with neoprene washer gasket.	12" on center spacing along long edge and 9-5/8" spacing along short edge

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Ryan Marshall	Taylon Skylights
Luis Sotelo Hernandez	Intertek B&C

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SECTION 6

TEST PROCEDURE

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. The bag was removed, and the test unit was inspected for any signs of damage or failure.

A 400 lbf weight, fabricated from a bag filled with sand, was placed on the center of the dome for a minimum of 60 seconds. The bag was removed, and the test unit was inspected for any signs of damage or failure.

A 800 lbf weight, fabricated from a bag filled with sand, was placed on the center of the dome for a minimum of 60 seconds. The bag was removed, and the test unit was inspected for any signs of damage or failure.

A 200 lbf weight, fabricated from a bag filled with sand, was dropped from varying heights above the skylight starting at 2' until permanent visible damage was noted. The highest impact load sustained was recorded.

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Skylight Protection

Series/Model: 4896 FBPA

Test Specimen #1: Round bar 7/16"

OVERALL AREA:	WIDTH		LENGTH	
3.4 m ² (36.8 ft ²)	Millimeters	Inches	Millimeters	Inches
Overall Size	1337	52-5/8	2556	100-5/8
Curb Size	1289	50-3/4	2508	98-3/4

Product Type: Skylight Protection Bar

Series/Model: 4896 FBPS

Test Specimen #2: Round bar 1/2"

OVERALL AREA:	WIDTH		LENGTH	
3.4 m ² (36.8 ft ²)	Millimeters	Inches	Millimeters	Inches
Overall Size	1337	52-5/8	2556	100-5/8
Curb Size	1289	50-3/4	2508	98-3/4

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SECTION 8

TEST RESULTS

The temperature during testing was 15°C (59°F). The results are tabulated as follows:

OSHA Safety Test

Test Specimen #1

TEST METHOD	LOAD LOCATION	RESULTS
200 lb static	Center of specimen	No Visible Damage
400 lb static	Center of specimen	No Visible Damage
800 lb static	Center of specimen	No Visible Damage

Observations: The 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.

OSHA Safety Drop Test

Test Specimen #1

TEST METHOD	LOAD LOCATION	RESULTS
200 lbf	Center of specimen	No Visible Damage
800 lbf-ft (4' drop height)	Center of specimen	Permanent deflection observed, there is no presence of breakage, no disassembly or any additional damage

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OSHA Safety Test

Test Specimen #2

TEST METHOD	LOAD LOCATION	RESULTS
200 lb static	Center of specimen	No Visible Damage
400 lb static	Center of specimen	No Visible Damage
800 lb static	Center of specimen	No Visible Damage

Observations: The 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.

OSHA Safety Drop Test

Test Specimen #2

TEST METHOD	LOAD LOCATION	RESULTS
200 lbf	Center of specimen	No Visible Damage
800 lbf-ft (4' drop height)	Center of specimen	Permanent deflection observed, there is no presence of breakage, no disassembly or any additional damage

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PHOTOGRAPHS



Photo No. 1
Test Specimen #1 after 4' (800 lb – ft) drop height



Photo No. 2
Test Specimen #2 after 4' (800 lb – ft) drop height

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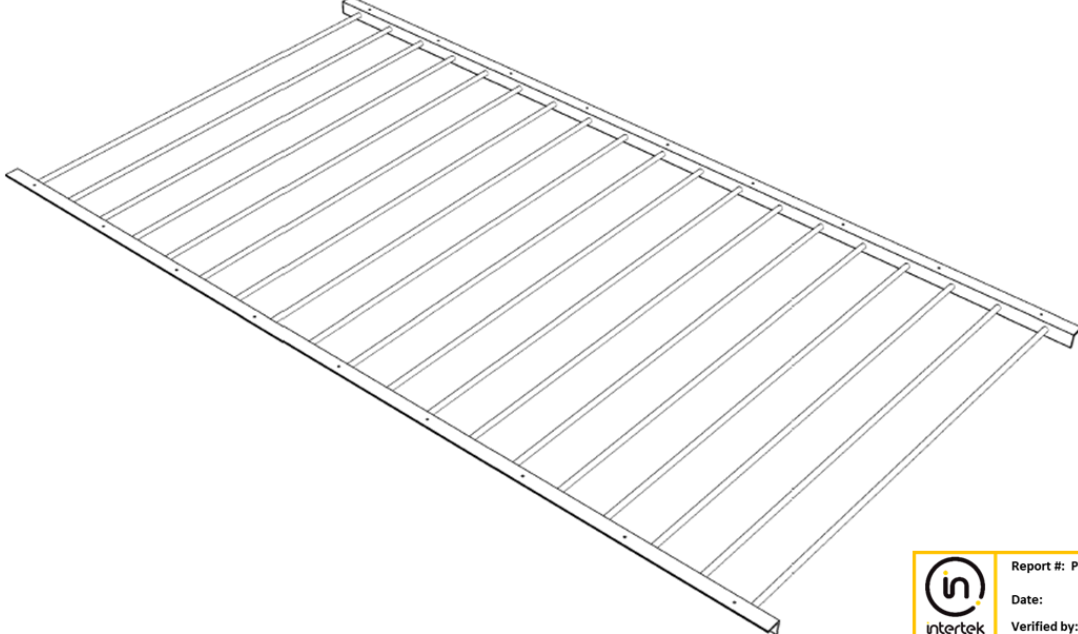
Date: 03/28/23

SECTION 10

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Any deviations are documented herein or on the drawings.

INDEX					
PAGE	DESCRIPTION				
01	INDEX / PARTS LIST / ISOMETRIC				
02	ASSEMBLY PLAN VIEW / SECTION				
03	1,500 X 1,500 X 0.125 ALUMINUM ANGLE				
04	0.438" ALUMINUM ROUND BAR				



 03.23.23

PARTS LIST

ITEM NO.	DESCRIPTION	MATERIAL	FINISH	LENGTH	QUANTITY
1.	1,500 X 1,500 X 0.125 ALUMINUM ANGLE – SHARP CORNER	6063 ALUMINUM	MILL	95,500	2
2.	0.438" ALUM. ROUND BAR	6063 ALUMINUM	MILL	47,500	19



Report #: P8684.01-303-44
Date: 03/24/23
Verified by: 

TAYLON SKYLIGHTS

MODEL: 4896 FPBA

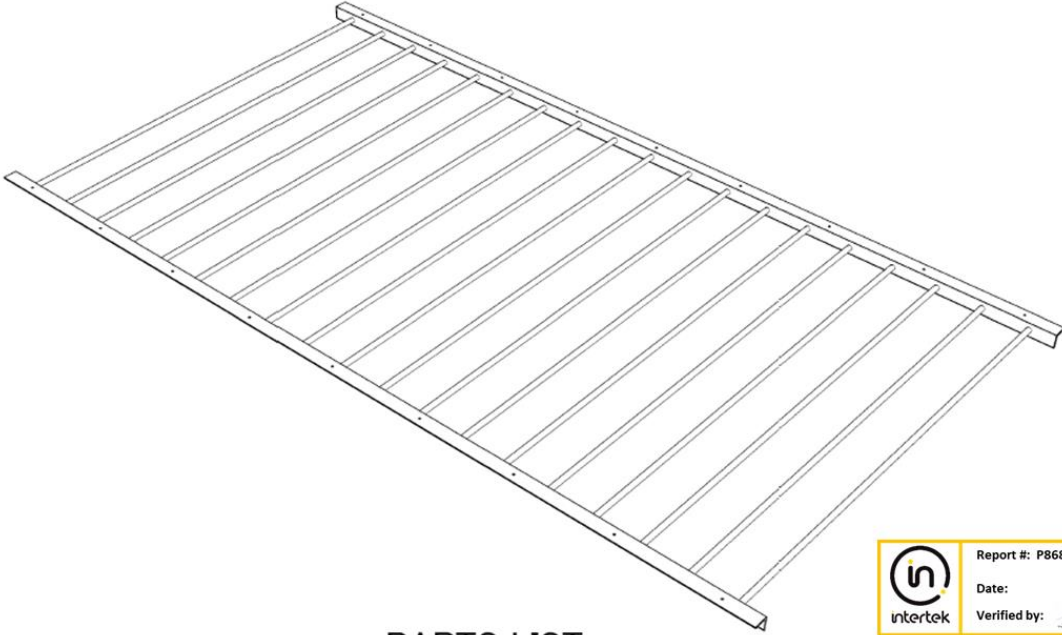
RELEASE DATE: 11/09/22
SHEET: 01 OF 04

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INDEX					
PAGE	DESCRIPTION				
01	INDEX / PARTS LIST / ISOMETRIC				
02	ASSEMBLY PLAN VIEW / SECTION				
03	1,500 X 1,500 X 0.125 STEEL ANGLE				
04	0.500" STEEL ROUND BAR				



 Report #: P8684.01-303-44
Date: 03/24/23
Verified by: 

PARTS LIST

ITEM NO.	DESCRIPTION	MATERIAL	FINISH	LENGTH	QUANTITY
1.	1,500 X 1,500 X 0.125 STEEL ANGLE	ASTM-A36 STEEL	SKY WHITE POWDER COAT	95.500	2
2.	0.500" STEEL ROUND BAR	ASTM-A36 STEEL	SKY WHITE POWDER COAT	47.500	19

TAYLON SKYLIGHTS

MODEL: 4896 FPBS

RELEASE DATE: 11/09/22
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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
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