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APPROVAL REPORT

Project No: 3057950
Class: 4431
Product Name: Model A-FS-CM-SP
Product Type: Skylight
Name of Listing Company: Skyco Skylights
Address of Listing Company: 2995 Airway Ave, Ste B
Costa Mesa, CA 92626
United States
Customer ID: 155953-1
Customer website: www.skycoskylights.com

Prepared by

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12/9/2016

Date of Approval

1 INTRODUCTION

1.1 Skyco Skylights requested Approval of their Model A-FS-CM-SP Skylights listed in Section 1.4 to determine if they meet the Approval requirements of the standard listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

1.3 Standards

Title	Number	Issue Date
Approval Standard for Skylights	4431	September, 2006

1.4 Listing

The product will appear in the Approval Guide, an on-line resource of FM Approvals, as follows:

Skylights for Roofs

Model A-FS-CM-SP

Skyco Skylights Model A-FS-CM-SP Skylights are provided in sizes 2 x 8 ft (0.6 x 2.4 m), 4 x 4 ft (1.2 x 1.2 m) and 4 x 8 ft (1.2 x 2.4 m), and are available in both single dome and double dome glazing options. The single dome models (Model A-FS-CM-SP) are equipped with Skypro Polycarbonate domes and the double dome model configurations include Skypro Polycarbonate outer and inner dome (Model A-FS-CM-SP/SP), and Skypro Polycarbonate outer dome and acrylic inner dome (Model A-FS-CM-SP/AC), both are available in smooth or prismatic inner dome options.

Skyco Skylights Model A-FS-CM-SP Skylights meet the FM Approvals requirements for a 1-195 psf (9.3 kPa) Wind Rating when secured to minimum 1.5 in. (38 mm) nominal wood curb framing with #10 self-tapping screws. Fasteners are secured through pre-drilled holes on all four sides of the aluminum frame and spaced maximum 12 in. o.c. (304 mm). See manufacturers Installation Instructions for details.

Skyco Skylights Model A-FS-CM-SP Skylights meet the FM Approvals requirements for a Severe Hail (SH) rating as tested with 2.0 in. (51 mm) diameter frozen ice balls.

Fire tests indicate that if a sprinkler is installed directly under a Skyco Skylights Model A-FS-CM-SP skylight, steps shall be taken to prevent the skylight from interfering with the sprinkler's operation.

Model No.	Glazing Type
A-FS-CM-SP	Single Dome Polycarbonate
A-FS-CM-SP/SP	Double Dome Polycarbonate
A-FS-CM-SP/AC	Double Dome Outer Polycarbonate, Inner Dome Acrylic

All other products are Approved as described in the Approval Guide. Drawings, and specifications are on file at FM Approvals.

2 DESCRIPTION

The Skyco Skylights Model A-FS-CM-SP Skylights are described as follows:

FM Approved Skyco Skylights Model A-FS-CM-SP are provided in sizes up to 4 ft (1.2 m) and in lengths up to 8 ft (2.4 m) and are fabricated in single dome glazing or double dome glazing options. The single dome models (Model A-FS-CM-SP) are formed out of minimum 0.118 in. (3.0 mm) thick Skypro Polycarbonate and the double dome model configurations include Skypro Polycarbonate outer and inner dome (Model A-FS-CM-SP/SP) and Skypro Polycarbonate outer dome and acrylic inner dome (Model A-FS-CM-SP/AC), both available in smooth or prismatic inner dome options. The skylights are curb mounted on the rooftop.

3 EXAMINATIONS AND TESTS

3.1 Samples were submitted for examination and testing. Samples of the plastic sheets used to form the skylight domes were witnessed by an FM Approvals representative on May 16, 2016. Skyco Skylights Model A-FS-CM-SP Skylight test samples were witnessed by an FM Approvals representative on July 27, 2016. The samples were considered to be representative of standard production and were examined and tested as indicated below. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standards defined in Section 1.3.

Table 1

Standard Number	Section	Test Name	Justification/Comments
4431	4.1	Spread of Flame Test for Skylights from an Exterior Ignition Source	Included/Passed Class A at 3 in 12 Slope
4431	4.2	Simulated Hail Resistance Test Using Freezer Ice Balls	Included/Passed SH Rating Using 2.0 in. (51 mm) Diameter Freezer Ice Balls
4431	4.3	Simulated Impact Test for Skylights	Included/Passed *NR
4431	4.4	Simulated Wind Uplift Resistance Test for Skylights	Included/Passed 1-195 PSF Wind Rating
4431	4.5	Windborne Debris Rating (Approval Standard 4350)	Optional/Not Included
*NR = No Rating			

4 MARKING

4.1 The manufacturer shall mark each skylight with the manufacturer's name and trade name. In addition, each skylight must be marked with the Approval Mark of FM Approvals.

- 4.2 Markings denoting Approval by FM Approvals shall be applied by the manufacturer only within and on the premises of manufacturing locations under the FM Approvals Surveillance program.
- 4.3 The manufacturer agrees that use of the FM Approvals name or Approval Mark is subject to the conditions and limitations of the Approval by FM Approvals. Such conditions and limitations must be included in all references to Approval by FM Approvals.
- 4.4 Product intended for use in Canada shall be provided with caution and warning labels in both English and French.

5 REMARKS

- 5.1 Continued Approval is based upon fabrication and construction of Skyco Skylights Model A-FS-CM-SP in accordance with this Approval Report, satisfactory field experience and continued use of acceptable quality control procedures as determined by Surveillance Audits.
- 5.2 Additional guidance for the use of Skyco Skylights Model A-FS-CM-SP Skylight is outlined in FM Global Property Loss Prevention Data Sheets 1-10.

6 SURVEILLANCE AUDIT

The manufacturing facility at the following location shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that tested and Approved. An FM Approved Products/Specification Tested Revision Request Form (F 619) shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

Audit Location:

Skyco Skylights
2995 Airway Ave, Ste B
Costa Mesa, CA 92626
United States

7 MANUFACTURER'S RESPONSIBILITIES

- 7.1 Documentation that is applicable to this approval is on file at FM Approvals and listed in the Documentation File, Section 8, of this report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Products/Specification Tested Revision Request Form (F 619) shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 When a Skyco Skylights Model A-FS-CM-SP skylight is to be installed for an FM Global insured, the manufacturer shall forward all submittals required by this Approval Report to the appropriate FM Global Operations Center for review and acceptance.

- 7.3** The manufacturer shall supply all instructions, materials, equipment, and assistance necessary for the complete, proper and satisfactory installed of the skylight.
- 7.4** In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.

8 DOCUMENTATION

The following document describes the Skyco Skylights Model A-FS-CM-SP Skylight and is on file at FM Approvals.

Document Title	Issue Date
Surveillance Audit Manual for Skyco Skylights, Costa Mesa, CA	November 2016

9 CONCLUSION

The Skyco Skylights Model A-FS-CM-SP Skylights described in section 1.4 meets FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this report.

PROJECT DATA RECORD: 3057950