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Legacy report on the 1997 Uniform Building Code™

DIVISION: 08—DOORS AND WINDOWS
Section: 08620—Unit Skylights

DUR-RED PRODUCTS PLASTIC DOME SKYLIGHTS

DUR-RED PRODUCTS—MANUFACTURED
BY RED PLASTIC CO., INC.
4900 CECELIA STREET
CUDAHY, CALIFORNIA 90201

1.0 SUBJECT

Dur-Red Products Plastic Dome Skylights.

2.0 DESCRIPTION

2.1 General:

Dur-Red plastic skylights are formed into domes from 0.125-, 0.150- and 0.187-inch-thick (3.2, 3.8 and 4.8 mm) flat sheets of Class CC2 acrylic plastic produced by Aristech Chemical Corp., covered under the ICBO ES evaluation report ER-2576. The formed plastic sheets are factory installed to a base frame of 0.062-inch-thick (1.57 mm), 6063-T5 aluminum alloy complying with Section 2006 of the 1997 Uniform Building Code™. The 0.062-inch-thick (1.57 mm), 6063-T5 aluminum retainer secures the plastic domes to the aluminum base frame with No. 12 by 1 1/4-inch (32 mm) wood screws. See Table 1 for additional details.

2.2 Installation:

The curb-mounted skylights are installed on minimum 2-inch-by-6-inch (51 mm by 152 mm) nominal Group II species wood curbs having sufficient depth to mount the plastic at least 4 inches (102 mm) above the roof. The wood curb and its attachment to the roof structure must be designed to resist the wind uplift and gravity loads. A maximum 1/8-inch (3.2 mm)

gap between the curb and vertical mounting leg of the frame is required. Prior to skylight mounting, a 1/4-inch (6.4 mm) bead of silicone rubber sealant is applied continuously around the curb and top. The skylight is then secured to the curb with No. 12 by 1 1/4-inch (32 mm) wood screws located approximately 4 inches (102 mm) from each corner and then evenly spaced along all sides of the frame. For number of fasteners required, refer to Table 1. The required minimum penetration of screws into the curb is 1 inch (25 mm). For additional details, refer to Figure 1.

2.3 Identification:

Each skylight is identified by a label bearing the manufacturer's name and address, plastic dome thickness, CC2 plastic classification, and evaluation report number. In addition, a safety label warning of risk of fall is applied to each unit.

3.0 EVIDENCE SUBMITTED

Data in accordance with the ICBO ES Acceptance Criteria for Plastic Skylights (AC16), dated April 1997.

4.0 FINDINGS

That Dur-Red Products Plastic Dome Skylights described in this report comply with the 1997 Uniform Building Code™ (UBC), subject to the following conditions:

- 4.1 Installation complies with Sections 2409.4 and 2603.7 of the UBC, manufacturer's instructions, and this report.
4.2 Design loads do not exceed allowable loads of 20 pounds per square foot (958 Pa).

This report is subject to re-examination in two years.

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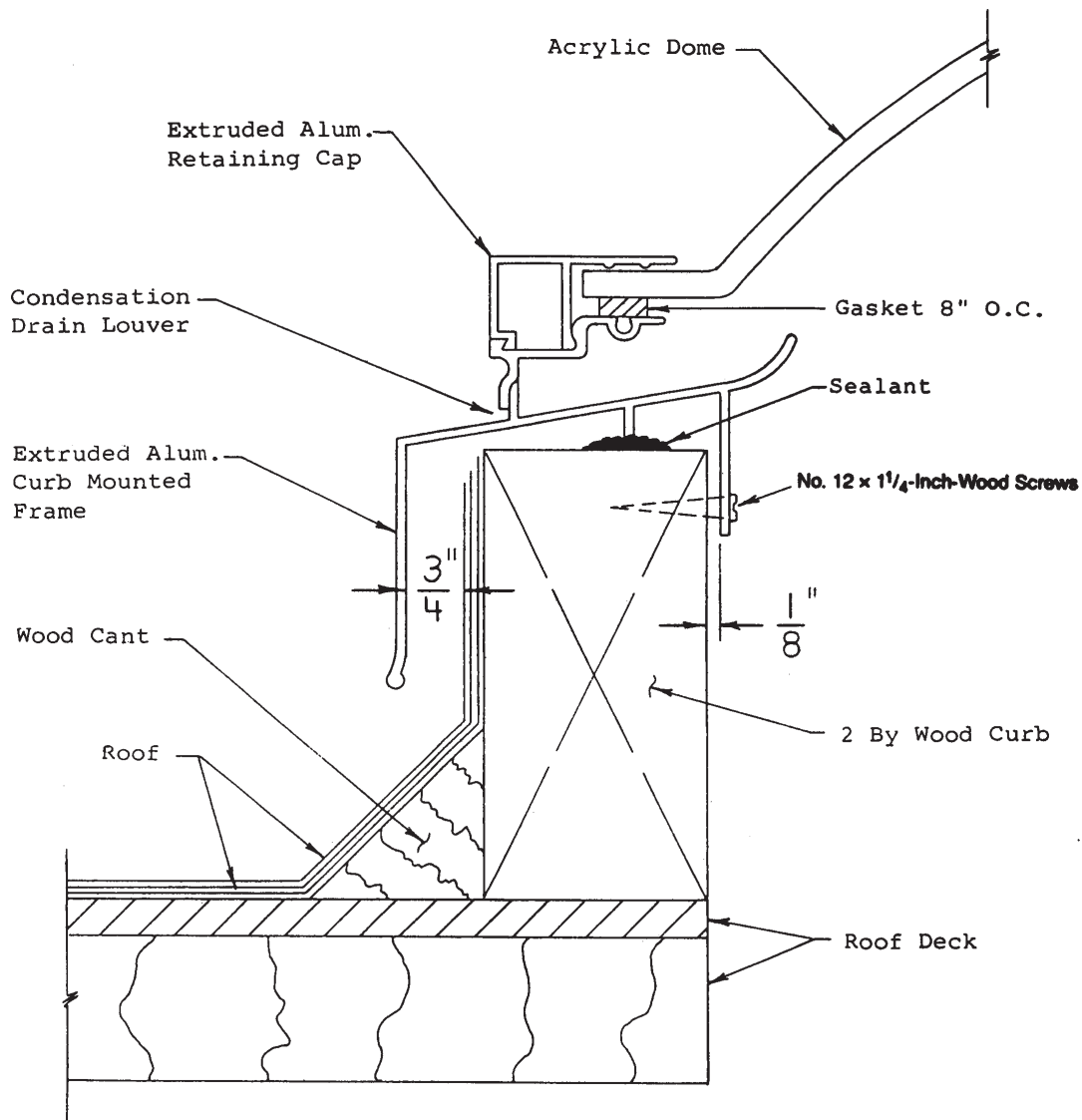
TABLE 1—SKYLIGHT DESCRIPTIONS

MODEL NUMBER	INSIDE CURB OPENING (inches)	DOME THICKNESS (inch)	DOME RISE (inches)	NUMBER OF FRAME-TO-CURB FASTENERS
S2020	14 ¹ / ₄ × 14 ¹ / ₄	0.125	5	4
S2424	19 × 19	0.125	5	4
S2828	22 ¹ / ₄ × 22 ¹ / ₄	0.125	7	8
S3636	30 ¹ / ₄ × 30 ¹ / ₄	0.125	8	8
S4242	37 × 37	0.150	10	8
S5252	46 ¹ / ₄ × 46 ¹ / ₄	0.150	12	8
R2028	14 ¹ / ₄ × 22 ¹ / ₄	0.125	6	4
R2052	14 ¹ / ₄ × 46 ¹ / ₄	0.125	6	6
R2852	22 ¹ / ₂ × 46 ¹ / ₄	0.125	7	8
R3296	25 ¹ / ₂ × 89 ¹ / ₂	0.187	8	10
R3652	30 ¹ / ₄ × 46 ¹ / ₄	0.150	10	8
R3676	30 ¹ / ₄ × 69 ¹ / ₂	0.187	10	10
R4280	37 × 75	0.187	12	10
R4364	38 × 59	0.187	12	10
R5296	46 ¹ / ₄ × 89 ¹ / ₂	0.187	12	12
R55102	48 × 96	0.187	12	12

Key

S=SQUARE
R=RECTANGLE

For SI: 1 inch = 25.4 mm.



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FIGURE 1