

SECTION 08620—UNIT SKYLIGHTS

Miami-Dade County/FBC/TDI Approved Impact Glass Skylight (Model(s) DGCM & DGSF)

PART 1: General

1.01 Section Includes:

A. Scope:

This section includes everything necessary for and incidental to the execution and completion of the 6th Edition of the 2017 Florida Building Code, Miami-Dade County and Texas Department of Insurance approved Impact Glass glazed Curb Mount skylight or Self Flashing skylight as shown on all drawings and specified herein.

B. Work Included:

Work included, and is limited to, the skylight materials only and includes the following:

1. 1” Impact Glass with DuPont Sentry Glass unit skylights complete with curb mount frame for installation on flashed curb by others or pre-finished curb provided by Maxim Industries, Inc.

C. Related Work:

1. Division 7: Thermal & Moisture Protection.
2. Division 8: Windows & Doors.
3. Section_____ final cleaning.

1.02 References and Approvals:

Intertek/ ATI, Plano, Texas Testing Facility

REPORT: h0993.01-801-18-r0 TAS 201 202 203

REPORT: h0993.02-801-18-r0 AAMA A440-11

REPORT: h0993.03-801-18-r0 ASTM 1886 & 1996

Miami-Dade County Building Code Compliance Office

Product Control Notice of Acceptance (NOA): 15-1212.04

Florida Building Commission 2555 Shumard Oak Blvd., Tallahassee, FL 32399-2100

Complies with the 6th Edition of the 2017 Florida Building Code

Texas Department of Insurance 333 Guadalupe Austin, TX 78714-9104

Texas Department of Insurance Evaluation Report no. SK-18

DuPont - Kuraray SentryGlas (E.I. DuPont de Nemours & Co., Inc.) 2625 Bay Area Blvd. Houston, TX 77058

Product Control Notice of Acceptance (NOA): 17-0808.02

National Accreditation & Management Institute 4794 George Washington Memorial Hwy Hayes, VA 23072

Product, Manufacturing and Quality Assurance Certifications

Cardinal LG Company 250 Griffin Street East Amery, WI 54001

Product Control Notice of Acceptance (NOA): 17-1108.32 – Sea Storm IGU

Construction Consulting Lab 1601 Luna Road Carrollton, Texas 75006

AAMA/WDMA/CSA 101/LS.2/A440-05 including: ASTM E283, ASTM E330, ASTM E331

ASTM E547, ASTM E1886, ASTM E1996—Standard specification for windows, doors & skylights

1.03 Performance Criteria:

A. Impact Resistance:

SentryGlas laminated glass IGU skylights must meet the requirements of Protocol TAS—201-

94. Impact resistance conforming to ASTM E1886 & ASTM E1996 Missile Level D, wind zone 4.

B. Static Air Pressure:

SentryGlas laminated glass IGU skylights must meet the requirements of Protocol TAS—202-94. Test Load = +200 psf/ -200 psf, Design Load = +100.0 psf/ -100.0 psf

C. Cyclic Wind Pressure Loading:

SentryGlas laminated glass IGU unit skylights must meet the requirements of Protocol TAS—203-94. Test Load = +200 psf/ -200 psf, Design Load = +100.0 psf/ -100.0 psf

D. Structural Loads:

SentryGlas laminated glass IGU unit skylights must meet the requirements of Protocol TAS—202-94; Test Load = +200 psf/ -200 psf, Design Load = +100.0 psf/ -100.0 psf

E. Cyclic Wind Pressure Loading:

SentryGlas laminated glazed IGU unit skylights must meet the requirements of Protocol TAS—203-94; Test Load = +200 psf/ -200 psf, Design Load = +100.0 psf/ -100.0 psf

F. Forced Entry Protection:

SentryGlas laminated glass IGU unit skylights must meet the requirements of ASTM F588, including UL972 for all glazing materials.

G. Other standards met or exceeded and thusly included in this specification:

ASTM E330, ASTM E331, ASTM E283, ASTM E547, ASTM E1886, ASTM E1996

1.04 Submittals:

A. Shop Drawings:

Submit _____ copies of manufacturers standard approval sheet for architects review and approval.

1.05 Warranty:

Skylight manufacturer shall provide a written warranty against defects in materials and workmanship for a period of five (5) years from date of installation for frame and finish, twenty (20) years for glazing.

1.06 Manufacturer:

Dade Glass Curb Mount/ Dade Glass Self Flashing skylight(s) shall be Maxim Industries, Inc. model DGCM/ DGSF as manufactured by Maxim Industries, Inc., 1630 Terre Colony Court Dallas, Texas, 214-905-2021 with sizes as shown on drawings.

Part 2: Products:

2.01 Materials:

A. Frame:

Frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a thickness of .090 or typical wall per extrusion blueprint. Frame shall include a condensation gutter applied to the interior side of the glazing made from 6063-T5/T6 aluminum extrusion with a thickness of .090 or typical wall per extrusion blueprint. All corners shall be welded using the heliarc process.

B. DuPont SentryGlas® Laminated Impact Resistant Glass:

DuPont SentryGlas® Impact Glass shall be secured to frame per product approval drawings.

C. Aluminum Finish:

All exposed aluminum to be Mill Finish, Clear Anodized, Bronze Anodized, or Powder Coated Custom Color, as selected by architect.

D. Sealants:

1. Dow Corning 795 sealant:
Dow Corning 795 structural sealant applied continuously around perimeter of the skylight frame between the Glass and frame.

E. Fasteners:

No fasteners are supplied but must conform to product control approval drawings. Pre-positioned fastener holes are provided.

F. Curb:

Optional Curb provided by Maxim. SYP 2X6 minimum, with 3/8" prefinished cellular pvc interior and .105" extruded aluminum extrusion angle. Optional curb must be anchored by installer per the 2010 Florida Building Code with minimum fasteners per Maxim Industries certified fasteners calculations performed under NOA 12-1022.02.

2.02 Assembly:

All skylights shall be factory assembled and factory glazed.

Part 3 Installation:

3.01 Site Inspection:

Installer shall notify general contractor/project manager of any structural or dimensional deficiencies immediately. No work shall proceed without the correction of all deficiencies or written authorization is given to proceed.

3.02 Installation:

Skylight shall be installed in strict accordance with installation drawings and instructions provided by the manufacturer. Any deviation shall only be through written authorization from the architect.

A. Sealants:

No sealants shall be applied to aluminum if temperature is below 32 degrees F.

3.03 Protection:

Protection of skylights during construction shall be the responsibility of the general contractor/project manager.

3.04 Cleaning:

A. General Cleaning:

Installer shall remove all protective coverings from frames and/or domes and shall leave installation free from heavy debris and/or sealant markings.

B. Final Cleaning:

Final cleaning in accordance with manufacturers recommendations shall be by the general contractor/project manager. Cleaning instructions shall be located on manufacturers label.

End of Section