SECTION 08 60 00

SKYLIGHTS

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\*\* NOTE TO SPECIFIER \*\* American Skylights, Inc.; acrylic and glass skylights.
 .
 This section is based on the products of American Skylights, Inc., which is located at:

1218 Corporate Dr. E.
 Arlington, TX 76006
 Tel: 855-772-7401
 Fax: 855-445-7282
 E-mail: sales@americanskylights.com
 Web: [www.americanskylights.com](http://www.americanskylights.com)
 [ [Click Here](http://www.arcat.com/arcatcos/cos30/arc30446.cfm) ] for additional information.

American Skylights manufactures the highest quality standard, special and custom skylights and non-structural roof systems for new or replacement opening without the extended lead times or prohibitive costs. American also manufactures skylights specifically designed to meet the tough standards of Miami Dade County, Texas Department of Insurance, and a skylight designed to meet OSHA Fall Protection standards without a screen! Fall guard protection screens and security grills for all brands of skylights are also available. Please browse our website [www.americanskylights.com](http://www.americanskylights.com) to learn more about the entire product offering from American Skylights.

See our SpecWizard: [Click Here](http://www.arcat.com/specwizard/08600as/index.htm)

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Domed plastic unit skylights.
		2. Glass skylights.
		3. Roof system skylights.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 07 50 00 - Membrane Roofing: Coordination and installation of flashing.
		2. Section 07 60 00 - Flashing and Sheet Metal: Coordination and installation of counter flashing.
		3. Section 07 91 23 - Backer Rods: Products and installation provisions for perimeter sealant.
		4. Section 08 80 00 - Glazing: Products and installation provisions for glass.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. Aluminum Association (AA):
			1. AA M12C22A41 - Anodized Plus Finish.
			2. AA M12C22A32/A34 - Color anodized: Class II, Color Anodic Finish.
		2. American Architectural Manufacturer's Association (AAMA):
			1. AAMA 501.2 - Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems.
			2. AAMA 605.2 - Voluntary Specification for High Performance Organic Coatings.
			3. AAMA 607.1 - Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
			4. AAMA 612 - Voluntary Specifications and Performance Requirements and Test Procedures for Combined Coatings of Anodic Oxide and Transparent Coatings on Architectural Aluminum, for Finishes such as Anodized Plus.
		3. ASTM International (ASTM):
			1. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
			2. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass Kind HS, Kind FT Coated and Uncoated Glass.
			3. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
			4. ASTM E773 - Standard Test Method for Accelerated Weathering of Sealed Insulating Glass Units.
			5. ASTM E774 - Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units.
		4. American Welding Society (AWS): AWS Structural Welding Code.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00.
		2. [Product Data](http://www.arcat.com/arcatcos/cos30/arc30446.cfm): Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Indicate materials, finishes and installation procedures recommended by manufacturer.
			4. Indicate compliance with specified design criteria.
			5. Indicate compliance with performance requirements.
			6. Include product specific glazing details.
		3. Shop Drawings:
			1. Indicate material types, gauges and finishes, fabrication details and installation details.
			2. Show glazing types, methods of attachment and thermal movement provisions.
		4. Indicate compliance with specified structural design criteria.
			1. Submitted design calculations shall bear seal of a professional engineer licensed in the State in which the skylight is to be installed.
			2. Certify that engineer has reviewed shop drawings.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications:
			1. Skylight manufacturer shall have a minimum of ten years experience in design, fabrication and installation of custom aluminum skylight systems and shall have a certified quality assurance program.
		2. Installer Qualifications:
			1. Installer shall be trained and approved by manufacturer.
			2. Installer shall have five years experience with skylight type, size and complexity.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			3. Refinish mock-up area as required to produce acceptable work.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer's unopened packaging until ready for installation.
		2. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
	2. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
	3. WARRANTY
		1. Performance Warranty: Provide manufacturer's written warranty covering skylight work. Warranty shall cover defective materials, workmanship and performance. Warranty shall be limited to repair or replacement of work described in this section and shall not provide for repair or replacement of work by others.
			1. 5 years.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: American Skylights, Inc., which is located at:1218 Corporate Dr. E.Arlington, TX 76006Toll Free Tel: 855-772-7401Fax: 855-445-7282Email:  sales@americanskylights.com;Web: <http://www.americanskylights.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
	1. SKYLIGHT PERFORMANCE
		1. Load:
			1. Deflection of framing members shall not exceed L/180 or 1 inch (25 mm) whichever is less.
			2. Acrylic and/or polycarbonate unit skylights shall meet the requirements of uniform load test ASTM E330 that requires glazing to withstand a positive and negative test pressure of 30 psf.
			3. Insulating glass unit skylights shall meet the requirements of uniform load test ASTM E330 that requires glazing to withstand a positive and negative test pressure of 100 psf.
			4. Impact Protection: Units rated for Fall Protection shall have been tested and meet the intent of OSHA Fall Protection Criteria.

\*\* NOTE TO SPECIFIER \*\* Impact protection skylights manufactured with sealed double Lexan polycarbonate domes, these skylights are available with the same extensive options as our standard line. Contact manufacturer for application requirements. Models CMD-100 and SFD-100. Delete provision not required.

* + - 1. Impact Protection: Unit skylights shall meet Miami-Dade County Notice of Acceptance certificate required.
			2. Hurricane Resistant Unit skylights shall meet the requirements of Miami-Dade County. A current, valid Notice of Acceptance certificate is required.
			3. Impact Protection: Unit skylights shall meet Texas Department of Insurance Section 120; Wind load, and Section 103: Windstorm Resistant Construction Guidelines.
		1. Air Infiltration:
			1. Acrylic and/or polycarbonate unit skylights shall meet the requirements of ASTM E283 that allows a maximum air infiltration of 0.06 cfm (.0017 cu. m/m) of the total glazed surface area.
			2. Insulated glass unit skylights shall meet the requirements of ASTM E283 that allows a maximum air infiltration of 0.06 cfm (.0017 cu. m/m) of the total glazed surface area.
		2. Water Infiltration:
			1. Acrylic and/or polycarbonate unit skylights shall meet the requirements of ASTM E547/E331 that allows for no water infiltration at a test pressure of 12 psf (571 Pa).
			2. Insulated glass unit skylights shall meet the requirements of ASTM E547/E331 that allows for no water infiltration at a test pressure of 12 psf (571 Pa)

\*\* NOTE TO SPECIFIER \*\* The following paragraph applies only on Models APCM, TCM-FG and TSF-FG. The paragraph also applies to CCM-FG if double polycarbonate glazing is used. Delete if not required.

* + 1. Fall Protection Safety: Uniform design load capacity shall meet or exceed the following:
			1. No glazing breakage or total disengagement of glazing from the frame shall occur upon impact of minimum 775 ft lb.
			2. Units are designed to comply with the intent of OSHA fall protection guidelines.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. PLASTIC SKYLIGHT

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Dade County Thermally Broken Curb Mount: Double domed polycarbonate thermally broken curb mount skylight unit. Sizes as shown on drawings.
			1. Model DTCM-60 Dade County Thermal Break Curb Mount as manufactured by American Skylights.
			2. Performance Test: Report No. 65541.01-801-18. Architectural Testing, Inc., 130 Derry Court, York, PA 17402.
			3. NOA: Product Control Notice of Acceptance (NOA) 09-0316.02. Miami-Dade County Building Code Compliance Office.
			4. Performance Requirement:
				1. Impact Resistance: Unit skylights shall meet the requirements of Protocol PA-201-94.
				2. Static Air Pressure: Unit skylights shall meet the requirements of Protocol PA-202-94.
				3. Water Infiltration: Unit skylights shall meet the requirements of Protocol PA-202-94.
				4. Structural Loads: Unit skylights shall meet the requirements of Protocol PA-202-94; Design Load = 60.0 psf (2.9 kPa).
				5. Cyclic Wind Pressure Loading: Unit skylights shall meet the requirements of Protocol PA-203-94; Design Load = 60.0 psf (2.9 kPa).

\*\* NOTE TO SPECIFIER \*\* Delete tint not required.

* + - 1. Dome Tint: Sealed polycarbonate domes shall be clear/clear.
			2. Dome Tint: Sealed polycarbonate domes shall be clear/white.
			3. Dome Tint: Sealed polycarbonate domes shall be bronze/clear.

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - 1. Aluminum Finish: Exposed aluminum shall be mill finish.
			2. Aluminum Finish: Exposed aluminum shall be clear anodized.
			3. Aluminum Finish: Exposed aluminum shall be bronze anodized.
			4. Aluminum Finish: Exposed aluminum shall be custom color, as selected by architect.
			5. Assembly: Skylights shall be factory assembled and factory glazed.
				1. Polycarbonate Domes: As manufactured by Sheffield Hyzod.
				2. Curb Mount Frame: Frame shall be fabricated from .060 inch by 1.5 inches by 1.75 inches (1.5 mm by 38 mm by 44 mm) T6063-T5/T6 aluminum extrusion. Frame shall have an integral condensation gutter. Corners shall be welded using the heliarc process.
				3. Domes shall be secured to frame with a fully welded retainer cap, thickness of .060 inch (1.5 mm).
				4. Dow Corning 795 structural silicone sealant shall be applied continuously around perimeter of skylight between extruded aluminum retaining angle and top dome.
				5. Schnee-Morehead 5127 Sealant Tape shall be applied continuously between polycarbonate bottom dome and .080 inch (2.0 mm) T6063 extruded aluminum frame.
				6. Fasteners: Fasteners used in the factory assembly process shall be stainless steel. Fasteners and screws used for securing skylight to structure shall be stainless steel and shall be provided by the Contractor.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Dade County Single Wall Self Flashing: Double domed polycarbonate non-thermally broken self flashing skylight unit with curb and integral counter flashing. Sizes as shown on drawings.
			1. Model DSF-100 Dade County Thermal Break Curb Mount as manufactured by American Skylights.
			2. Performance Test: Report No. 01-39321.02. Architectural Testing, Inc., 130 Derry Court, York, PA 17402.
			3. NOA: Product Control Notice of Acceptance (NOA) 09-0316.02. Miami-Dade County Building Code Compliance Office.
			4. Performance Requirement:
				1. Impact Resistance: Unit skylights shall meet the requirements of Protocol PA-201-94.
				2. Static Air Pressure: Unit skylights shall meet the requirements of Protocol PA-202-94.
				3. Water Infiltration: Unit skylights shall meet the requirements of Protocol PA-202-94.
				4. Structural Loads: Unit skylights shall meet the requirements of Protocol PA-202-94; Design Load = 100.0 psf (4.8 kPa).
				5. Cyclic Wind Pressure Loading: Unit skylights shall meet the requirements of Protocol PA-203-94; Design Load = 100.0 psf (4.8 kPa).
			5. Frame Type: High profile frame height.

\*\* NOTE TO SPECIFIER \*\* Delete tint not required.

* + - 1. Dome Tint: Sealed polycarbonate domes shall be clear/clear.
			2. Dome Tint: Sealed polycarbonate domes shall be clear/white.
			3. Dome Tint: Sealed polycarbonate domes shall be bronze/clear.

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - 1. Aluminum Finish: Exposed aluminum shall be mill finish.
			2. Aluminum Finish: Exposed aluminum shall be clear anodized.
			3. Aluminum Finish: Exposed aluminum shall be bronze anodized.
			4. Aluminum Finish: Exposed aluminum shall be custom color, as selected by architect.
			5. Assembly: Skylights shall be factory assembled and factory glazed.
				1. Polycarbonate Domes: As manufactured by Sheffield Hyzod.
				2. Self Flashing Frame: Frame shall be fabricated from .080 inch by 1.5 inches by 1.75 inches (2.0 mm by 38 mm by 44 mm) T6063-T5/T6 aluminum extrusion. Frame shall have an integral condensation gutter. Corners shall be welded using the heliarc process.
				3. Domes shall be secured to frame with a fully welded retainer cap, thickness of .060 inch (1.5 mm).
				4. Dow Corning 795 structural silicone sealant shall be applied continuously around perimeter of skylight between extruded aluminum retaining angle and top dome.
				5. Schnee-Morehead 5127 Sealant Tape shall be applied continuously between polycarbonate bottom dome and .080 inch (2.0 mm) T6063 extruded aluminum frame.
				6. Fasteners: Fasteners used in the factory assembly process shall be stainless steel. Fasteners and screws used for securing skylight to structure shall be stainless steel and shall be provided by the Contractor.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Curb Mount: Single or double domed acrylic and/or polycarbonate non-thermally broken curb mount skylight unit. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model CM (standard dome) as manufactured by American Skylights.
			2. Model CM-PYR (pyramid dome) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single domed acrylic.
			2. Single dome polycarbonate.
			3. Double domed acrylic/acrylic.
			4. Double domed acrylic with outer layer of polycarbonate.
			5. Double domed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* This skylight is fall protection rated when glazed with double polycarbonate domes. Delete if not required.

* + 1. Circular Curb Mount: Acrylic and polycarbonate non-thermally broken curb mount skylight unit. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model CCM as manufactured by American Skylights.
			2. Model CCM-FG as manufactured by American Skylights. Fall Protection unit with double polycarbonate dome.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required. Double domed polycarbonate/polycarbonate is required for CCM-FG.

* + - 1. Single domed acrylic.
			2. Single dome polycarbonate.
			3. Double domed acrylic/acrylic.
			4. Double domed acrylic with outer layer of polycarbonate.
			5. Double domed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Thermally Broken Curb Mount: Double domed acrylic and/or polycarbonate thermally broken curb mount skylight unit. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model TCM (standard dome) as manufactured by American Skylights.
			2. Model TVCM (venting dome) as manufactured by American Skylights.
			3. Model TCM-PYR (pyramid dome) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Retain the final paragraph for 'Fall Protection Safety' in Article 2.2 when specifying Model TCM-FG. Delete if not required.

* + - 1. Model TCM-FG (fall protection dome) as manufactured by American Skylights.
			2. Model CMD-100 (impact protection dome) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Double domed polycarbonate/polycarbonate is required and only option if Model CMD-100 is selected. Model TCM-FG is only available as polycarbonate or triple domed acrylic/polycarbonate/polycarbonate units. Delete glazing not required.

* + - 1. Double domed acrylic/acrylic.
			2. Double domed ASF-35 acrylic/acrylic.
			3. Double domed acrylic with outer layer of polycarbonate.
			4. Double domed polycarbonate/polycarbonate
			5. Double domed ASF-35 acrylic/polycarbonate.
			6. Triple domed ASF-35 acrylic/acrylic/acrylic.
			7. Triple domed ASF-35 acrylic/polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Thermally Broken Insulated Venting Curb Mount
				1. Venting units shall have factory installed, single point gear mechanism (maximum 12 inch (305 mm) opening) with operator handle. Venting sash shall close onto continuous Santoprene compression gasket.
				2. Insect Screen: Venting units shall have aluminum frame screen with (gray or black) fiberglass screen material.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Self Flashing: Single or double domed acrylic and/or polycarbonate non-thermally broken self flashing skylight unit with curb and integral counter flashing. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model SF (standard dome) as manufactured by American Skylights.
			2. Model SF-PYR (pyramid dome) as manufactured by American Skylights.
			3. Model SF-PYR (impact protection dome) as manufactured by American Skylights.
			4. Model DSF-HP (impact protection dome) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Impact protection domes available in double dome only. Double domed polycarbonate/polycarbonate is required and only option if Model DSF-HP is selected. Delete glazing not required.

* + - 1. Single domed acrylic.
			2. Single dome polycarbonate.
			3. Double domed acrylic/acrylic.
			4. Double domed acrylic with outer layer of polycarbonate.
			5. Double domed polycarbonate/polycarbonate.
			6. Curb Height:

\*\* NOTE TO SPECIFIER \*\* Delete curb height not required.

* + - * 1. 3.25 inches (82.5 mm) Standard Self Flashing.
				2. 3.25 inches (82.5 mm) Standard Self Flashing Pyramid.
				3. 9 inches (229 mm) EZ Self Flashing.
				4. 9 inches (228 mm) Standard Self Flashing.
				5. 9 inches (228 mm) Standard Self Flashing Pyramid.
				6. 12 inches (305 mm) EZ Self Flashing.
				7. 12 inches (305 mm) Standard Self Flashing.
				8. 12 inches (305 mm) Standard Self Flashing Pyramid.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Insulated Self Flashing: Double domed acrylic and/or polycarbonate unit skylights complete with 1 inch (25 mm) fiberglass insulated curb with integral counter flashing. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model ISF (standard dome) as manufactured by American Skylights.
			2. Model ISF-PYR (pyramid dome) as manufactured by American Skylights.
			3. Model CISF (circular dome) as manufactured by American Skylights

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Double domed acrylic/acrylic.
			2. Double domed acrylic with outer layer of polycarbonate.
			3. Double domed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete curb height not required.

* + - 1. Curb Height:
				1. 9 inches (229 mm) EZISF Insulated Self Flashing.
				2. 9 inches (229 mm) Insulated Self Flashing.
				3. 9 inches (229 mm) Insulated Self Flashing Pyramid.
				4. 12 inches (305 mm) EZISF Insulated Self Flashing.
				5. 12 inches (305 mm) Insulated Self Flashing.
				6. 12 inches (305 mm) Insulated Self Flashing Pyramid.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Thermally Broken Self Flashing: Double domed acrylic and/or polycarbonate thermally broken self flashing skylight unit with curb and integral counter flashing. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model TSF (standard dome) as manufactured by American Skylights.
			2. Model TVSF (venting dome) as manufactured by American Skylights.
			3. Model TSF-PYR (pyramid dome) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Double domed acrylic/acrylic.
			2. Double domed ASF-35 acrylic/acrylic.
			3. Double domed acrylic with outer layer of polycarbonate.
			4. Double domed polycarbonate/polycarbonate.
			5. Double domed ASF-35 acrylic/polycarbonate.
			6. Triple domed ASF-35 acrylic/acrylic/acrylic.
			7. Triple domed ASF-35 acrylic/polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Thermally Broken Insulated Venting Self Flashing:
				1. Venting units shall have factory installed, single point gear mechanism (maximum 12 inch (305 mm) opening) with operator handle. Venting sash shall close onto continuous Santoprene compression gasket.
				2. Insect Screen: Venting units shall have aluminum frame screen with (gray or black) fiberglass screen material.
				3. Curb Height: 4 inches (102 mm) Thermally Broken Insulated Self Flashing curb.

\*\* NOTE TO SPECIFIER \*\* Delete Curb height provision below if venting skylight selected.

* + - 1. Curb Height:

\*\* NOTE TO SPECIFIER \*\* TSF-FG not available in 4 inch (102 mm) curb. Delete curb height not required.

* + - * 1. 4 inches (102 mm) Thermally Broken Insulated Self Flashing Dome.
				2. 4 inches (102 mm) Thermally Broken Insulated Self Flashing Pyramid.
				3. 9 inches (229 mm) Thermally Broken Insulated Self Flashing Dome.
				4. 9 inches (229 mm) Thermally Broken Insulated Self Flashing Fall Protection.
				5. 9 inches (229 mm) Thermally Broken Insulated Self Flashing Pyramid.
				6. 12 inches (305 mm) Thermally Broken Insulated Self Flashing Dome.
				7. 12 inches (305 mm) Thermally Broken Insulated Self Flashing Fall Protection.
				8. 12 inches (305 mm) Thermally Broken Insulated Self Flashing Pyramid.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Thermally Broken Self Flashing: Polycarbonate thermally broken self flashing skylight unit with curb and integral counter flashing. Sizes as shown on drawings and to be verified in field.

\*\* NOTE TO SPECIFIER \*\* Retain the final paragraph for 'Fall Protection Safety' in Article 2.2 when specifying Model TSF-FG. Delete if not required.

* + - 1. Model TSF-FG (fall protection) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete dome type not required.

* + - 1. Double domed polycarbonate/polycarbonate.
			2. Triple domed polycarbonate/polycarbonate/polycarbonate.
			3. Curb Height:
				1. 9 inches (229 mm) Thermally Broken Insulated Self Flashing Dome.
				2. 9 inches (229 mm) Thermally Broken Insulated Self Flashing Pyramid.
				3. 12 inches (305 mm) Thermally Broken Insulated Self Flashing Dome.
				4. 12 inches (305 mm) Thermally Broken Insulated Self Flashing Pyramid.
				5. Insulation: Manufacturer's semi-rigid type; minimum R-4.

1 inch (25 mm) thickness.

Exposed Insulation: Not allowed.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. ROOF SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Not available with curbs.

* + 1. Barrel Vault Skylight System: Double glazed acrylic and/or polycarbonate unit skylight system with thermally broken curb mount frame for installation on flashed curb. Sizes as shown on drawings.
			1. Model BVCM as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single glazed acrylic.
			2. Single glazed polycarbonate.
			3. Double glazed acrylic/acrylic.
			4. Double glazed acrylic with outer layer of polycarbonate.
			5. Double glazed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Not available with curbs.

* + 1. Half Round Skylight System: Double glazed acrylic and/or polycarbonate unit skylight system with thermally broken curb mount frame for installation on flashed curb. Sizes as shown on drawings.
			1. Model HRCM as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single glazed acrylic.
			2. Single glazed polycarbonate.
			3. Double glazed acrylic/acrylic.
			4. Double glazed acrylic with outer layer of polycarbonate.
			5. Double glazed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Not available with curbs.

* + 1. Ridge Lite Skylight System: Single and double glazed acrylic and/or polycarbonate unit skylight system with thermally broken curb mount frame for installation on flashed curb. Sizes as shown on drawings.
			1. Model RLCM as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single glazed acrylic.
			2. Single glazed polycarbonate.
			3. Double glazed acrylic/acrylic.
			4. Double glazed acrylic with outer layer of polycarbonate.
			5. Double glazed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Available with curbs.

* + 1. Ridge Mount Self Flashing Skylight System: Single or double glazed acrylic and/or polycarbonate unit skylight system with thermally broken installation flange for installation on roof deck. Sizes as shown on drawings.
			1. Model RMTSF as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single glazed acrylic.
			2. Single glazed polycarbonate.
			3. Double glazed acrylic/acrylic.
			4. Double glazed acrylic with outer layer of polycarbonate.
			5. Double glazed polycarbonate/polycarbonate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Units must be installed with a minimum of 1 in 12 pitch. TSCM and TSCM-PYR units shall be installed with mullion at a minimum 1/12 pitch. Not available with curbs.

* + 1. Tandem Skylight System: Single or double domed acrylic and/or polycarbonate unit skylight system with non-thermally broken curb mount frame for installation on flashed curb. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model TSCM (standard domes) as manufactured by American Skylights.
			2. Model TSCM-PYR (pyramid domes) as manufactured by American Skylights.

\*\* NOTE TO SPECIFIER \*\* Delete glazing not required.

* + - 1. Single domed acrylic.
			2. Single dome polycarbonate.
			3. Double domed acrylic/acrylic.
			4. Double domed acrylic with outer layer of polycarbonate.
			5. Double domed polycarbonate/polycarbonate.
			6. Tandem Systems require a minimum 1:12 slope and support under each mullion.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. GLASS SKYLIGHTS

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Glass Thermal Break Ridge Mount Self Flashing Skylight System: Insulating glass unit skylight system with non-thermally broken installation flange for installation on roof deck. Sizes as shown on drawings.
			1. Model GRMTSF as manufactured by American Skylights.
			2. Insulating Glass Construction: Minimum overall thickness of 1 inch (25 mm); 1/4 inch glass, 1/2 inch air space, 1/4 inch glass (6.4 mm glass, 13 mm air space, 6.4 mm glass). Insulating glass shall be factory dual sealed.
			3. Glass:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Clear.
				2. Clear with Low "E".
				3. Clear with Low "E" and Argon gas.
				4. Bronze.
				5. Bronze with Low "E".
				6. Bronze with Low "E" and Argon gas.
				7. Gray.
				8. Gray with Low "E".
				9. Gray with Low "E" and Argon gas.
				10. Custom as selected by architect.
			1. Safety Glass Type:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Tempered.
				2. Laminated.
				3. As selected by architect.

\*\* NOTE TO SPECIFIER \*\* Glass area shall be restricted to 36 square feet on unit skylights, and ridge mounts skylights. Delete if not required.

* + 1. Glass Thermal Break Curb Mount: Insulated glass unit skylights with dual polyurethane thermally broken curb mount frame for installation on flashed curb. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model GTCM (fixed) as manufactured by American Skylights.
			2. Model GTVCM (venting) as manufactured by American Skylights.
				1. Venting units shall have factory installed, single point gear mechanism (maximum 12 inch (305 mm) opening) with operator handle. Venting sash shall close onto continuous Santoprene compression gasket.
				2. Insect Screen: Venting units shall have aluminum frame screen with (gray or black) fiberglass screen material.
			3. Insulating Glass Construction: Minimum overall thickness of 1 inch (25 mm); 1/4 inch glass, 1/2 inch air space, 1/4 inch glass (6.4 mm glass, 13 mm air space, 6.4 mm glass). Insulating glass shall be factory dual sealed.
			4. Glass:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Clear.
				2. Clear with Low "E".
				3. Clear with Low "E" and Argon gas.
				4. Bronze.
				5. Bronze with Low "E".
				6. Bronze with Low "E" and Argon gas.
				7. Gray.
				8. Gray with Low "E".
				9. Gray with Low "E" and Argon gas.
				10. Custom as selected by architect.
			1. Safety Glass Type:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Tempered.
				2. Laminated.
				3. As selected by architect.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. (optional acrylic and/or polycarbonate double domes)

* + 1. Glass Thermal Break Self Flashing: Insulating glass unit skylights with 2 polyurethane thermal breaks and 1 inch (25 mm) fiberglass insulating 4 inches (102 mm) self flashing frame for installation on roof deck. Sizes as shown on drawings.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model GTSF (fixed) as manufactured by American Skylights.
			2. Model GTVSF (venting) as manufactured by American Skylights.
				1. Venting units shall have factory installed, single point gear mechanism (maximum 12 inch (305 mm) opening) with operator handle. Venting sash shall close onto continuous Santoprene compression gasket.
				2. Insect Screen: Venting units shall have aluminum frame screen with (gray or black) fiberglass screen material.
			3. Insulating Glass Construction: Minimum overall thickness of 3/4 inch (19 mm); 3/16 inch glass, 1/2 inch air space, 3/16 inch glass (4.8 mm glass, 13 mm air space, 4.8 mm glass). Insulating glass shall be factory dual sealed.
			4. Glass:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Clear.
				2. Clear with Low "E".
				3. Clear with Low "E" and Argon gas.
				4. Bronze.
				5. Bronze with Low "E".
				6. Bronze with Low "E" and Argon gas.
				7. Gray.
				8. Gray with Low "E".
				9. Gray with Low "E" and Argon gas.
				10. Custom as selected by architect.
			1. Safety Glass Type:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Tempered.
				2. Laminated.
				3. As selected by architect.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Structural glass pyramid unit skylight.

* + 1. Patriot fully assembled and glazed pyramid or hipped ridge, self-supporting skylight system. Frame members fabricated from 6363-T5 alloy extruded aluminum. System is thermally broken and incorporates an internal gutter system to weep moisture to the outside of the system. Glazing secured with a thermally broken cap glazing system complete with a continuous glazing gasket and setting block of 60 durometer EPDM rubber.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Model: APCM pyramid model glazed with insulating glass.
				1. Maximum Outside Curb Dimension: 96 x 96 in (2438 x 2438 mm).
			2. Model: APCM hipped ridge model glazed with insulating glass.
				1. Maximum Outside Curb Dimension: 96 x 180 in (2438 x 4572 mm).
				2. Some field assembly may be required on larger units.

\*\* NOTE TO SPECIFIER \*\* Delete if outside curb dimensions are shown on the Drawings.

* + - 1. Outside Curb Dimensions (in / mm): \_\_\_\_\_\_.
			2. Insulating Glass Thickness: Factory dual sealed. Minimum overall thickness of 1 inch (25 mm); 1/4 inch glass, 1/2 inch air, 1/4 inch glass (6.4 mm glass, 13 mm air, 6.4 mm glass).
			3. Glass:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Clear.
				2. Clear with Low "E".
				3. Clear with Low "E" and Argon gas.
				4. Bronze.
				5. Bronze with Low "E".
				6. Bronze with Low "E" and Argon gas.
				7. Gray.
				8. Gray with Low "E".
				9. Gray with Low "E" and Argon gas.
				10. As determined by Architect.
			1. Safety Glass Type:

\*\* NOTE TO SPECIFIER \*\* Delete glass characteristics not required.

* + - * 1. Tempered.
				2. Laminated.
				3. As selected by architect.

\*\* NOTE TO SPECIFIER \*\* Delete exposed aluminum finish options not required.

* + - 1. Exposed Aluminum Finish: Mill finish.
			2. Exposed Aluminum Finish: Clear anodized.
			3. Exposed Aluminum Finish: Bronze anodized.
			4. Exposed Aluminum Finish: Custom color paint as selected by Architect.
			5. Glazing Gaskets and Sealants: Glazing separated from frame by continuous black EPDM gasket.
			6. Fasteners: Screws and fasteners in factory assembly process shall be stainless steel. All fastener and screws used for securing skylight to structure shall be by others.
	1. FABRICATION

\*\* NOTE TO SPECIFIER \*\* Rectangular and square curb mount only. Delete if not required

* + 1. Rectangular and Square Curb Mount:

\*\* NOTE TO SPECIFIER \*\* Curb mount only. Delete if not required

* + - 1. Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060 inch (1.5 mm).

\*\* NOTE TO SPECIFIER \*\* Thermally broken curb mount only. Delete if not required

* + - 1. Thermally broken curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion.
				1. Thickness shall be minimum .060 inch (1.5 mm) with a polyurethane thermal break to reduce thermal transfer and reduce condensation on the interior of the frame.
			2. All corners shall be welded using the heliarc process.
			3. Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Mill finish.
				2. Clear anodized.
				3. Dark bronze anodized.
				4. High performance coating, white color.
				5. High performance coating, custom color.

\*\* NOTE TO SPECIFIER \*\* Circular curb mount only. Delete if not required

* + 1. Circular Curb Mount:
			1. Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060 inch (1.5 mm).
				1. Thickness shall be minimum .060 inch (1.5 mm).
			2. All joints shall be welded using the heliarc process.
			3. Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Mill finish.
				2. High performance coating, white color.
				3. High performance coating, custom color.

\*\* NOTE TO SPECIFIER \*\* Circular Curb mount, fall protection rated only. Delete if not required

* + 1. Circular Curb Mount - Fall Protection Rated.
			1. Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060 inch (1.5 mm).
			2. All joints shall be welded using the heliarc process.
			3. Aluminum Finish: Mill finish.

\*\* NOTE TO SPECIFIER \*\* Curb and curb mount only. Delete if not required

* + 1. Curb and Curb Frame (self flashing):
			1. Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion.

\*\* NOTE TO SPECIFIER \*\* Insulated self flashing mount only. Delete if not required

* + - 1. Insulated curb and frame shall be fabricated from 6063-T5/T6 aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete curb mount frame not required.

* + - 1. Curb Mount Frame: Integral condensation gutter polyurethane thermal break. Corners welded using the heliarc process.
			2. Curb Mount Frame: Integral condensation gutter and weep holes for sufficient drainage to exterior. Corners welded using the heliarc process.

\*\* NOTE TO SPECIFIER \*\* Ridge mount skylight system only. Delete if not required.

* + - 1. Glazing track, mullions, rafters and tube rafters: Glazing track, mullions and rafters shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .080 inch (2.0 mm). Mullions shall have an exterior compression mullion cap for air and water tight seal. Tube rafters (where required) shall have a minimum thickness of .110 inch (2.8 mm).
			2. Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Mill finish.
				2. Bronze anodized.
				3. Clear anodized.
				4. High performance coating, custom color as determined by the Architect.

\*\* NOTE TO SPECIFIER \*\* Delete dome types not required.

* + 1. Acrylic Domes:
			1. Domes shall be secured to frame with a fully welded retainer cap, minimum thickness of .060 inch (1.5 mm).
			2. Acrylic domes shall be:

\*\* NOTE TO SPECIFIER \*\* Delete single dome colors not required.

* + - * 1. Single Dome Color: Clear.
				2. Single Dome Color: No. 2447 White.
				3. Single Dome Color: No. 2412 Bronze.

\*\* NOTE TO SPECIFIER \*\* Delete double dome colors not required.

* + - * 1. Double Dome Color: Clear/Clear.
				2. Double Dome Color: Clear/ No. 2447 White.
				3. Double Dome Color: No. 2412 Bronze/Clear.
				4. Double Dome Color: ASF-35/Clear.
				5. Double Dome Color: Custom color.
				6. Triple Dome Color: ASF-35/Clear/Clear.
		1. Polycarbonate Domes:
			1. Domes shall be secured to frame with a fully welded retainer cap, minimum thickness of .125 inch (3.0 mm).
			2. Polycarbonate domes shall be:

\*\* NOTE TO SPECIFIER \*\* Delete single dome colors not required.

* + - * 1. Single Dome Color: Clear.
				2. Single Dome Color: No. 2447 White.
				3. Single Dome Color: No. 2412 Bronze.

\*\* NOTE TO SPECIFIER \*\* Delete double dome colors not required.

* + - * 1. Double Dome Color: Clear/Clear.
				2. Double Dome Color: Clear/ No. 2447 White.
				3. Double Dome Color: No. 2412 Bronze/Clear.
				4. Double Dome Color: Clear/Prismatic.
				5. Double Dome Color: ASF-35/Clear.
				6. Double Dome Color: Custom color.
				7. Triple Dome Color: ASF-35/Clear/Clear.
		1. Acrylic and Polycarbonate Domes:
			1. Secured to frame with fully welded retainer cap; 0.060 in (1.5 mm) thick minimum. The ASF-35 heat blocking acrylic is only available as exterior glazing and cannot be used as an interior dome.
			2. Triple Domes: White ASF-35 heat blocking acrylic over two clear acrylic or polycarbonate domes.
			3. Thermal Performance for Triple Domes with ASF-35: 0.50 U-Value and 0.35 Solar Heat Gain Coefficient (SHGC).
			4. Thermal Performance for Double Dome: 0.585 U-Value and 0.39 Solar Heat Gain Coefficient (SHGC).
		2. Glazing Gaskets and Sealants: Glazing to be separated from frame by a continuous extruded black Santoprene gasket.
		3. Fasteners: Screws and fasteners used in the factory assembly process shall be stainless steel. Fasteners and screws used for securing skylight to structure shall be suitable for substrate.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
	4. CLEANING
		1. General Cleaning: Installer shall remove all protective coverings from frames and domes and shall leave installation free from debris and sealant markings.
		2. Final Cleaning: Final cleaning in accordance with manufacturers recommendations. Cleaning instructions shall be located on manufacturer's label.
	5. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION