

Product Name

Sunshine Door
OmniClass # 23-30 10 17 37 14

Associated Specification Section

MasterFormat # 08 36 13 – Sectional Overhead Doors

Manufacturer's Name

Sunshine Door Inc.



2017-02-03

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Sectional, translucent glazed aluminum overhead doors.
- BASIC USES / RELATED USES
 - External overhead doors for homes, commercial and industrial buildings, shops, car washes, car and RV dealerships and service bays, restaurants, parkades.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
 - Glazing: Standard is 16 mm (5/8") thick, triple-wall polycarbonate sheet.
SV4517 Alternate 9/16" overall thickness dual pane 3.2mm tempered/tempered glass
 - High impact resistance.
 - High light transmittance.
 - High weather resistance (passes E84 steinner tunnel test).
 - Light weight polycarbonate results in 1.3 Lbs/SqFt section weight.
 - SV4517 alternate with dual pane tempered glass sections weigh 4.1 Lbs/SqFt.
 - Online Brochure: <http://sunshinedoor.com/files/5113/4754/8894/SunshineDoorWebBrochure.pdf>
- APPLICABLE STANDARDS, RELATED REFERENCES
 - AAMA 2603-13 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - ANSI/DASMA 102 - 2011 – Specifications for Sectional Doors.
 - ASTM B117-11 Standard Practice for Operating Salt Spray (Fog) Apparatus
 - ASTM D523-14 - Standard Test Method for Specular Gloss
 - ASTM D714-02(2009) Standard Test Method for Evaluating Degree of Blistering of Paints
 - ASTM D1308-02(2013) Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
 - ASTM D3363-05(2011)e2 Standard Test Method for Film Hardness by Pencil Test

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- ASTM D7091 - 13 - Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals
- ASTM E84-14 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- **PERFORMANCE CRITERIA**
 - Maximum deflection of door in open (horizontal) position: 1/120th of the door width.
 - Wind Loads: Comply with ANSI/DASMA 102.
- **QUALITY STATEMENTS**
 - **Manufacturer qualifications:**
The Original Sunshine Door Inc has been manufacturing for 18 years.
 - Member of International Door Association (IDA).
 - Member of Canadian Door Institute (CDI).
 - Member of Canadian Home Builders’ Association (Central Alberta).
 - Member of Red Deer Chamber of Commerce.
 - **Installer Qualifications:** Minimum five years of documented experience, and approved by Sunshine Door Inc.
- **PACKAGING, HANDLING AND STORAGE**
 - Door sections should be carried and handled in the upright position, on edge. Carrying flat can result in damage.
 - Store in manufacture's unopened packaging until time of installation. Protect from moisture.
 - Store in dry weather tight location.
- **WARRANTY**
 - Five years on polycarbonate in accordance with manufacturers tolerances, against discoloration, loss of light transmission and loss of strength due to weathering.

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PRODUCT DESCRIPTION

● AVAILABILITY

- Direct from manufacturer.
- Distributor: Contact Sunshine Door Inc., for a listing of distributors and installation dealers.

● COST

- Consult manufacturer or distributor offices for specific product costs or relative costs.

PRODUCT PROPERTIES

● MATERIALS

- Aluminum: Extruded, 6063-T5, 2 mm thick, clear anodized.
- Glazing:
 - **Standard: Polycarbonate**, triple wall construction, 16 mm thick.
 - Weight: 2.7 kg/m²
 - Light transmittance:
 - Clear: 76%
 - Bronze: 50%
 - White: 20%
 - Grey: 18%
 - Blackberry: 52%
 - Blue: 64%
 - Green: (special order)
 - Red: (special order)
 - UV Thickness: 60 micron
 - Heat transfer coefficient (U-value): 2.4 W/m²/°K (0.42 BTU/hr·ft²·°F)
 - Solar Heat Gain Coefficient (SHGC): 35% (based on 16mm triple wall clear)
 - Coefficient of thermal expansion: 0.065 mm/m°C
 - Weighted sound reduction index: 16 db
 - Tensile Strength: >=60 N/mm
 - Flexural strength: 100 N/mm²
 - Modulus of elasticity: 2400 MPa
 - Tensile stress at break: >=65 MPa
 - Elongation at break: >100%
 - Scratch resistant: Not anti-scratch.
 - Recyclability 100%



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PRODUCT DESCRIPTION

- Other glazing types:
 - **Glass:** Dual Pane 9/16” overall thickness
Tempered / Tempered
Glass thickness: 3.2mm
Glass Type: Clear Float Glass
 - **Acrylic:** Dual wall, 16 mm (5/8 inch) thick, clear view wide port.
Light transmittance:
Clear 91%
Interconnecting walls every 2.5” for structural rigidity.
Weighted Sound Reduction Index at 22dB.
Thermal Performance u0.49 (R2.04)
Recyclability 100%
Fire Behaviour: C2 or CC2 according to ASTM D-635. It burns almost entirely without smoke according to DIN4102 and ASTMD-2843 and is easily extinguished. The ASTM D-1929 self ignition temperature is very high at 840degrees F, with a smoke density rating of 2.0%, being neither acutely toxic according to DIN53436 nor corrosive according to DIN VDE 0482-267.
 - **Exterior Face Panel** over Polycarbonate to Interior:
Aluminum sheet, 1.25 mm (0.050”) thick facing to exterior, with polycarbonate backing. (Option for Aluminum sheet, 1.25 mm (0.050”) thick, both sides with 50 mm (2 inch) rigid insulation between.)

Aluminum sheet, powder coated to ASTM 2603, wood grain finish.

Stainless steel: limited to 3 m (10 ft) widths.

Steel sheet, 24g, painted with wood grain or decorative finish
- Glazing Method:
 - Rubber glazing wedge, allowing for differing coefficients of expansion and contraction. Foam and or Butyl glazing tapes as required.
 - SV4517 Glass to include rubber setting blocks between the edge of glass and aluminum stiles and rails at quarter points around all 4 sides.

● SIZES

- Standard Widths:
 - Full door width up to 8.54 m (28 ft).
 - Multiple sections can be combined with specialty hardware to produce wider doors.

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PRODUCT DESCRIPTION

- Standard Heights:
 - 450 mm (18 inch) section.
 - 525 mm (21 inch) section.
 - 610 mm (24 inch) section.
 - Full door height: maximum 9.1 m (30 ft).
- Custom widths and heights are available.
- Section Thickness:
 - 45mm (1-3/4 inch) as measured from interior to exterior face of rail.
- ACCESSORIES
 - Operators, Locks: Provided by dealer.
 - Weatherstripping:
 - Standard: Thermoplastic vulcanizate (Santoprene 201-64)
- SHOP FABRICATION AND ASSEMBLY
 - Track, Counterbalance Spring, Hardware: Provided by dealer.
- FINISHES
 - Aluminum Finish:
 - Clear anodized.
 - Black anodized.
 - Painted: White.
 - Mill Finish on section widths over 24'2".
 - Powder Coated: Thermosetting acrylic powder coating (PPG Duracron), to AAMA 2603, standard or custom colours. Coating performance:
 - Dry Film Thickness: 1.0 +/- 0.8 mil, to ASTM D7091.
 - Gloss: High, medium and low gloss, to ASTM D523 @ 60°.
 - Pencil Hardness: H minimum, to ASTM D3363.
 - Cross Hatch Adhesion (1/16" wet and dry): Excellent – no removal.
 - Direct Impact (1/10" distortion): Excellent – no removal.
 - Acid Resistance: 15 minutes – no attack, to ASTM D1308 (10% muriatic acid spot test).
 - Alkali Resistance: 25 hours – no attack.
 - Detergent Resistance: 72 hours, no attack (3% immersion @ 100°F)
 - Salt Spray Resistance: 1/16" maximum undercutting, to ASTM B117 (1500 hrs,

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PRODUCT DESCRIPTION

- 5% NaCl @ 100°F)
- Humidity Resistance: Up to few #8 blisters maximum, to ASTM D714.
- Exterior Exposure: No loss of adhesion, maximum 8ΔE color change, maximum 6 chalk rating, (1 yr @ 45°, south Florida).

PRODUCT PLACEMENT

- PREPARATION

- Insure door opening is of correct size, square and plumb.
- Allow minimum headroom above frame opening height:
 - 50 mm (2") Track: 375 mm (15 inches)
 - 75 mm (3") Track: 450 mm (18 inches)

- STORAGE

- Store in a clean dry space with moderate temperature and low humidity.
- Store in a vertical position to prevent moisture, dust, or other contaminants from settling on the sections.
- Do not lay flat.
- Leave protective packaging in place until installation, with the exception of any adhesive packaging which must be removed within 30 days of manufacturing.
- Do not stack sharp, heavy, or abrasive items on nor against the Sunshine Door products.

- INSTALLATION

- Install overhead doors and track in accordance with approved shop drawings and manufacturer's printed instructions.
- Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance after installation.
- Anchor door assembly to wall and building using anchors for the proper weight and size of door as well as area wind load requirements.
- Securely brace door tracks suspended from structure. Support vertical lift track that breaks away from wall more than 300 mm (12") with angle to wall or structural members.
- Adjust hardware and moving parts to function smoothly so that doors operate easily. Adjust doors and seals to provide weather tight fit around entire perimeter.

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PRODUCT DESCRIPTION

- WASTE RECYCLING
 - Aluminum and polycarbonate materials can be recycled.
 - Aluminum and polycarbonate manufacturing waste is recycled by Sunshine Door Inc.
- MAINTENANCE INSTRUCTIONS AND PROCEDURES
 - Clean with solution of mild soap or household detergent and lukewarm water, using a soft cloth or sponge to loosen any dirt and grime. Dawn dish soap is highly regarded for cleaning polycarbonate surfaces.
 - Rinse with cold water and dry with soft cloth to prevent spotting.
 - Never use abrasive or highly alkaline cleaners on polycarbonate glazing.

Corporate Identification

Sunshine Door Inc.
#105, 33 McKenzie Crescent
Red Deer County, Alberta T4S 2H4
Phone: 403.356.9472
www.sunshinedoor.com

Contact : Brian Kobialka
Email : Brian@SunshineDoor.CA
Tel : (780) 722-8227

Classification and Filing

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UniFormat:
B2050 – Exterior Oversize Doors

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