

Solamaster® Series 750DS		
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Product:	750 DS Tubular Daylighting Devices: Transparent roof-mounted skylight dome & self-flashing curb, reflective tube & ceiling level diffuser assembly, transferring sunlight to interior spaces.	
Roof Dome:	<ul style="list-style-type: none"> • Solamaster Series: Solatube Model 750DS, 530 mm Daylighting System: • Roof Dome Assembly: Transparent, UV and impact resistant dome with flashing base supporting dome and top of tube. • Outer Dome Glazing: Type DA, 3.2mm minimum thickness injection moulded acrylic classified as CC2 material; UV inhibited impact Modified acrylic blend. • Inner Dome Glazing: Type DAI, 3 mm minimum thickness acrylic classified as CC2 material. • Inner Dome Glazing: Type DPI, 3 mm) minimum thickness polycarbonate classified as CC1 Material. • Raybender 3000: Variable prism optic moulded into outer dome to capture low angle sunlight and limit high angle sunlight. 	
Roof Flashing	<ul style="list-style-type: none"> • Roof Flashing Base: One piece, seamless, leak-proof flashing functioning as base support for dome and top of tube. 	
Top Ring	<ul style="list-style-type: none"> • Tube Ring: Attached to top of base section; 2.3 mm nominal thickness injection moulded high impact PVC; to prevent thermal bridging between base flashing and tubing and channel condensed moisture out of tubing. • Tube Ring Seal: Attached to the base of the dome ring; butyl glazing rope, 6 mm diameter; to minimize air infiltration. 	
Extension Tube Sections	<ul style="list-style-type: none"> • Reflective Tubes: Aluminium sheet, thickness 0.5 mm • Interior Finish: Spectralight Infinity high reflectance specular finish on exposed reflective surface. Specular reflectance for visible spectrum (400 nm to 760 nm) greater than 99 percent. Total solar spectrum reflectance (400 nm to 2500 nm) less than 93 percent. 	
Angle Adaptor	<ul style="list-style-type: none"> • Top Tube Angle Adapter: Reflective 30 degree adjustable Top Tube Angle Adapter, 406 mm long. • Bottom Tube Angle Adapter: Reflective 30 degree adjustable Bottom Tube Angle Adapter, 406 mm long. • Reflective 90 degree Adjustable tube. 	
<p>Note: Internal Diffuser option depends on building design.</p> <p>(1) Open-Ceiling design is for Warehouse style Buildings with no fixed ceiling.</p> <p>(2) Closed-Ceiling design is for Office style Buildings with fixed or grid type ceilings.</p>		
Ceiling Type	<p>Diffuser Assemblies for Tubes Not Penetrating Ceilings (Open Ceiling): Solatube Model 750DS-O; diffuser attached directly to bottom of tube.</p>	<p>Diffuser Assemblies for Tubes Penetrating Ceilings: Solatube Model 750DS-C. Ceiling mounted box transitioning from round tube to square ceiling assembly, supporting light transmitting surface at bottom termination of tube; 605 mm by 605 mm square frame to fit standard suspended ceiling grids or hard ceilings.</p>
Diffuser	<ul style="list-style-type: none"> • Lens: Type 1 OptiView Fresnel lens design; to maximize light output and diffusion. Visible Light Transmission shall be greater than 90 percent at 0.6 mm thick. Classified as CC2. • Lens: Type 2, Prismatic lens design; to maximize light output and diffusion. Visible Light Transmission shall be greater than 90 percent at 2.5 mm thick. Classified as CC2. • Diffuser Seal: Open cell foam, acrylic adhesive backed, 19 mm wide by 3.2 mm thick. • Diffuser Trim Ring: Injection moulded acrylic. Nominal wall thickness 4.4mm 	<ul style="list-style-type: none"> • Round to square transition box made of opaque polymeric material, classified as CC2, Class C, and 2.8mm thick. • Natural Effect Lens made of acrylic, classified as CC2, Class C, 1.5 mm thick, with open cell foam seal to minimize condensation and bug, dirt, and air-infiltration per ASTM E283. • Lens: Type 1 OptiView Fresnel lens design; to maximize light output and diffusion with extruded aluminium frame. Visible Light Transmission shall be greater than 90 percent at 0.022 inch (0.6 mm) thick. Classified as CC2. • Lens: Type 2 Prismatic lens design; to maximize light output and diffusion with extruded aluminium frame. Visible Light Transmission shall be greater than 90 percent at 0.100 inches (2.5 mm) thick. Classified as CC2.



Thermal Performance	Thermal Performance	Solar Heat Gain Co-Efficient	U-Factor (Metric)
	The Solatube 750DS offers Unsurpassed thermal performance. Unique features such as Dual-Dome system, Raybender 3000 technology, and Spectralight Infinity Tubing work in concert to deliver the most energy efficient tubular daylighting Device available.	<0.40	<3.4
		Energy Star Requirements:	
		Solatube 750DS-C Daylighting System	2.67



Solamaster® Series Material Specifications

- Dome is UV and Impact resistant for extended service life. Its low profile design is unobtrusive, Impact modified, polycarbonate. Classified as TP(a) material, 4mm thick, with visible light transmission of 92% and ultra violet light transmission of 0.03%
- LightTracker™ Reflector increases daylight collection and harvesting for low sun angles resulting in increased light output. Spectralight® infinity.
- Permeable Dome Seal locks out dust and insects, but allows moisture to escape. Black breathable weather-strips material with 10mm pile.
- Dome ring and dome seal to channel condensed moisture out of the system. Durable white PVC Injection moulded non-corrosive material.
- One –Piece seamless flashing, 100mm-, 200mm- and 280mm- high ensures a no-leak installation. 0.75mm thick aluminiumized steel with powder coated exterior.
- The 30-degree Angle Adaptors feature 30-degree elbows for easy installations. The diameter tubes fit between 24" (600mm) on centre framing. Angle adaptors use spectralight infinity for a reflective surface. **Spectralight® infinity** material, fabricated from aluminium sheet meeting ASTM B 209 requirements, alloy and temper required by the manufacturer to suit forming operations and finish requirements, 0.46mm thick.
Interior Finish: Spectralight® Infinity high reflectance specular finish on exposed reflective surface; visible spectrum (400 nm to 2500 nm) less than 93%.
Colour: a' and b' (defined by CIE L 'a'b colour model) shall not exceed plus 2 or be less than minus 2 as determined in accordance to ASTM E 308.
- Extension Tubes are 610mm in length for installations of up to 15m. Spectralight® Infinity.
- 600mm x 600mm Transition Box (750DS-C only). Fits a standard suspended ceiling system. Polycarbonate material, classified as TP(a).
- Square diffuser for 750DS-C or round for 750DS-O. OptiView™ or Prismatic panel fits into the transition box for 750DS-C or attaches directly to bottom of tube for 750DS-O. Compliments traditional light fixtures. UV and weather resistant diffuser seal provides effective dust and insect seal.

