	Up® Series 160DS			
Supplier:	Solatube Australia Pty Ltd, 21/1029 Manly Rd, Tingalpa QLD 417	3 .		
	Mail to: PO BOX 3429, Tingalpa DC QLD 4173.			
	Tel: 13 16 19, Fax: 1 800 042 288 E-Mail: info@solatube.com.au Web: www.solatube.com.au			
Product:	Solatube 160 DS (250mm diameter) Transparent roof-mounted skylight dome and self-flashing curb,			
Troduct.	reflective tube, and ceiling level diffuser assembly, transferring sunlight to interior spaces; complying with ICBO/ICC AC-16.			
Roof Dome:	Brighten Up Series: Solatube Model 160DS, 250mm Daylighting System.			
	 Transparent, UV and impact resistant dome with flashing base supporting dome and top of tube. 			
	Outer Dome Glazing: Type DA, 0.125 inch (3.25 mm) minimum thickness impact resistant injustion moulded condition to a CCO materials I.IV inhibiting impact modified conditions.			
	 injection moulded acrylic classified as CC2 material; UV inhibiting, impact modified acrylic blend. Optional Shock Inner Dome Glazing: Type DI, 0.115 inch (2.9 mm) minimum thickness high 			
	impact resistant injection moulded acrylic required for high velocity wind zones.			
	 Raybender 3000: Variable prism optic moulded into outer dome to capture low angle sunlight and limit high angle sunlight. 			
	Da of Elockino	Spectralight Infinity. Positioned in dome to capture low angle sunlight. • Flashing Base: One piece, seamless, leak-proof flashing functioning as base support for dome		
Roof Flashing	 Flashing Base: One piece, seamless, leak-proof flashing and top of tube. 	tunctioning as base	support	for dome
Top Ring	Tube Ring: Attached to top of base section; 0.090 inch (2.3 mm) nominal thickness injection			
	moulded high impact acrylic; to prevent thermal bridging between base flashing and tubing and			
<u> </u>	channel condensed moisture out of tubing.			
Extension Tube	Reflective Extension Tube: Aluminum sheet, thickness 0.015 inch (0.4 mm). Interior Finish: Spectralight Infinity high reflectance appearuer finish an expected reflective aurifore.			
Sections	 Interior Finish: Spectralight Infinity high reflectance specular finish on exposed reflective surface. Visible spectrum (400 nm to 760 nm) greater than 99 percent. Total solar spectrum (400 nm to 			
Sections	2500 nm) less than 93 percent.	rochi. Total solal spe	otium (+	00 11111 10
Angle	Reflective 30 degree Adjustable tube: Aluminium sheet, thickness .015 inch (0.4mm)			
Adaptor	Reflective 90 degree Adjustable tube: Aluminium sheet, thickness .018 inch (0.5mm)			
	 Interior Finish: Spectralight Infinity high reflectance specular finish on exposed reflective surface. Visible spectrum (400 nm to 760 nm) greater than 99 percent. Total solar spectrum (400 nm to 			
	2500 nm) less than 93 percent.	rcent. Total solar spe	ectrum (4	oo nm to
Diffuser	Dual Glazed Diffuser Assembly: with glazing options and	d lens effect option fo	r mood li	ghting
	control.			
Performance	 Products have been tested by NFRC (National Fenestra 	-		
	SHGC and U-Value requirements as set out in the BCA	(Ruilding Code of Au		
	3.12.1.2 and J1.4.	(Building Code of Au	stralia) ta	ables
	5.12.1.2 dild 61.4.	(Dullating Gode of Au	stralia) ta	ables
	0.12.1.2 and 01.4.		stralia) ta	ables
	Climate Zones	Solatube 160 DS & 290DS	stralia) ta	U-Factor '
	257	Solatube 160 DS & 290DS Daylighting Systems	SHGC '	U-Factor '
	Climate Zones Zone 1 Zone 1 CHIVE KAN PER BET TERWITH EMERY STAR	Solatube 160 DS & 290DS Daylighting Systems	SHGC 1	U-Factor ²
	Climate Zones	Solatube 160 DS & 290DS Daylighting Systems	SHGC '	U-Factor '
	Climate Zones Zone 1 Zone 2	Solatube 160 DS & 290DS Daylighting Systems	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion*	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion*	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion* Zone 1 Zone 2	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion* Zone 1 Zone 2 Zone 3	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 7 Zone 8	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion* Zone 1 Zone 2 Zone 3 Zone 4	SHGC 1	U-Factor ²
	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 7 Zone 8	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion* Zone 1 Zone 2 Zone 3 Zone 4 Zone 5	SHGC 1	U-Factor ²
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	Climate Zones Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 6 Zone 7 Zone 8 WWW.abcb.gor.su Last Memoridary Patture WWw.abcb.gor.su Last Memoridary SHGC: Fraction of incident solar radiation. U-Factor: U-Factor qualification criteria based on the 2009 but	Solatube 160 DS & 290DS Daylighting Systems OptiView Vusion* Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 8 uilding codes board s	SHGC ' 0.33 0.35 / / / / / / / / / / / / / / / / / /	U-Factor' 2.44 2.44
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Brighten Up® Series Material Specifications

- Roof Dome: Injection moulded, impact-resistant, polycarbonate with UV protective characteristics. Classified as TP(a) material, 3.2mm think, visible transmission minimum 92%. Raybender® 3000 technology (patented) prismatic pattern moulded into dome to capture low angle sunlight.
- LightTracker™ Reflector increases daylight collection and harvesting for low sun angles resulting in increased light output. Spectralight Infinity, for specifications see #5 below.
- 3. Dome Ring contains condensation gutter designed to channel out condensed moisture.
- Roof Flashing: metal with protective powder coating complements roofing materials and combats corrosive material. Alternative roof flashings available.
- Spectralight Infinity Tubing: Fabricated from aluminium sheet meeting the requirements of ASTM B 209, alloy and temper required by the manufacturer to suit forming operations and finish requirements, 0.4mm thick

Interior finish: Spectralight Infinity high reflectance specular finish on exposed reflective surface; Visible spectrum (400 nm to 760 nm) greater than 99%; Total solar spectrum (400nm to 2500nm) less than 93%.

Colour a* and b* (defined by CIE *a*b colour model) shall not exceed plus 2 or be less than minus 2 as determined in accordance to ASTM E 308.

- The 30-degree Angle Adaptors: Spectralight Infinity tubing fabricated from aluminium sheet meeting the requirements of ASTM B 209, alloy and temper required by the manufacturer to suit forming operations and finish requirements, 0.4mm thick. Optional 0-90 Degree extension tube also available (0.46mm thick
- 7. Ceiling Ring: Injection moulded impact resistant acrylic.
- Ceiling Diffuser assembly (Dual Glazed): Two options, Optiview Diffuser or Vusion Diffuser.
 - a) Diffuser Lens:
 Optiview Moulded polycarbonate plastic classified as TP(a) material.

 Vusion Injection Moulded acrylic plastic classified as TP(a) material.
 - Diffuser Dress Ring: Injection moulded impact resistant acrylic.

SOLATUBE 160DS 303 012" 1 245 09 5/8" 6 273 7 010 3/4" OPENING