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 TGC/TMC Product Data Sheet
 Starting Production Code: BF06 (June 2016)



Description	General	An engineered day lighting system consisting of a field assembly of an exterior frame/roof flashing unit and an interior diffuser system joined by a rigid, reflective tunnel. The system is capped with an acrylic or polycarbonate tall dome with Sun Curve (22") or low profile dome (14") and diffuses the light with an interior Round to Square ceiling adaptor with an acrylic diffuser or a round diffuser sytem.
	Instructions	Installation instructions included in every box. VAS 453607
Installation	Applications	Flashing - G90 Galvanized flashing with water diverters for composite shingles, thin wooden shakes, slate, or membrane type roofing material.
	Roof Pitch	0° to 60° (TGC 0° to 30°; TMC 14° to 60° recommended)
	Flashings	Flashing is built on to the unit.
Compatibility	Interior Accessories (Optional)	ZTB - Decorative Diffuser
		ZTC 0041US - Energy kit (for insulation at ceiling level)
		ZTC 0401US- Energy kit (for insulation at roof level)
		ZTP - Daylight Controller
		ZZZ 233 - Dimmer Power Supply
	Exterior Accessories (Optional)	ZZZ 192 - Exterior Fire Band
		ZTR - Additional rigid tubing available in 2', 4', and 6" lengths.
		ZTQ - Security bars
		ZTZ 211 - Rotating coupler
		ZTE - Rotating elbows
		ZTY - Vapor barrier (for use with THC)
		ZTA - Turret extender
		ZTZ 203 - Suspension wire kit
		ZTM - Tile Flashing for Pitched Sun Tunnels (TMC Only)
		ZTZ 209 - Diffusion Enhancer
Materials	Dome	92% transparent impact resistant acrylic with UV absorbers or polycarbonate
	Flashing	G90 Galvanized metal low profile flashing (TGC) projects 4" above the roof deck and is available in 14" and 22". G90 gvanized metal pitched flashing (TMC) allows for a horizontal dome installation when installed on a pitched roof and projects 9" above the roof deck and is available in 14" only.
	Diffuser Assem (Rd to Sq)	1/8" thick White Acetal copolymer or Kynar (plenum rated), Available with Fresnel, Prismatic or Frosted diffuser
	Diffuser Assem (Drywall)	22" or 14" Round - White ABS Thermoplastic ceiling ring, dual diffuser system with a 1.5 mm clear secondary acrylic diffusion panel, Dia. 350.5 mm (014), Dia. 551 mm (022) and a 3 mm primary acrylic diffusion panel in either frosted, prismatic, or fresnel , Dia. 350.5 mm (014), Dia. 551 mm (022).

Materials Cont.	Diffuser Assem (Open Ceiling)	22" Round Polycarbonate/Acrylic alloy frame with either frosted, prismatic, or fresnel single lens.	
	Ceiling Ring Gasket	Triple sealing flexible vinyl.	
	Rigid Tubing	Highly reflective silver coated aluminum, 98% reflective	
	Rigid Elbows	45° Rotating elbows, 11.5" tall, 0.02" (0.51 mm) thick	
	Tape	2" wide Aluminum tape	
	Screws	1" Self fastening screws for fastening dome and lower reflective elbow.	
	Tunnel clips	Flexi-Loc clips	
Sizes	Standard Sizes	TGC - 14" and 22" diameters TMC - 14" diameter	
	Tunnel lengths	Maximum	20'
		Minimum	16"
	Dome 014	Thickness = 1/8" or 3mm, Height = 6 15/16" or 176.5mm, Outside diameter= 17 9/16" or 446.2mm, Inside diameter = 16 7/8" or 429.5mm.	
	Dome 022	Thickness = 1/8" or 3.2 mm, Height = 16-5/16" or 415 mm, Outside diameter= 25-5/8" or 650.2 mm, Inside diameter = 25" or 633.7 mm.	
	Flashing 14"	29.00" x 29.00" (736.5mm x 736.5mm)	
	Flashing 22"	37" x 37" (940mm x 940mm)	
Ceiling Ring Size	14" Models		22" Models
	Inside Diameter = 356.5 mm, Outside Diameter = 426 mm.		Inside Diameter = 557.5 mm, Outside Diameter = 627 mm.
Certification	Air/Water/Structural	<input checked="" type="checkbox"/> Hallmark <input type="checkbox"/> TDI <input type="checkbox"/> IAPMO-ES	<input checked="" type="checkbox"/> Florida <input type="checkbox"/> Miami Dade <input type="checkbox"/> LA Research Report
	Thermal (Energy Models)	<input checked="" type="checkbox"/> U-Factor <input type="checkbox"/> Energy Star Option	<input checked="" type="checkbox"/> SHGC
Warranty	Complete Product	10 years from the date of purchase, VELUX warrants that the SUNTUNNEL skylight will be free from defects in material and workmanship	
Changes from Earlier Versions	Exterior	Introduce Flexi-Loc system, Sun Curve, Tall Dome, New elbows	
	Interior	New accessories - Decorative diffuser, plenum rated accessories	
Type Sign	Example	48BD11A	
	Location	Sticker located on the black intermediate ring.	
Other Information	Features & Benefits	Great source of natural light, for spaces where regular skylights are not as practical or where diffuse light is desired.	

