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TCC Product Data Sheet
Starting Production Code: BF06 (June 2016)

VELUX®

	General	An engineered day lighting system consisting of a field assembly of an exterior roof curb counter 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.
Installation	Instructions	Installation instructions included in every box. VAS 453581
	Applications	Counter flashing - G90 galvanized flashing. The flashing is offered in curb counter flashing kits in 14" (TCC 014) and 22" (TCC 022).
	Roof Pitch	0° to 60°
Compatibility	Counter Flashings	Used with a site-built square roof curb (minimum height 3.5")
	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.
		ECW - Tile Flashing for Curb Mount Sun Tunnels
		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
		ZTZ 209 - Diffusion Enhancer
Materials	Dome	92% transparent impact resistant acrylic with UV absorbers or polycarbonate
	Counter Flashing	G90 galvanized sheet, 24 ga. Neutral gray color.
	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).
	Diffuser Assem (Open Ceiling)	14" or 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, 15.5" tall, 0.020" (0.51 mm) thick
	Tape	2" wide Aluminum tape
	Flashing Screws	1-1/2" screws
	Screws	3/4" screws for fastening dome
	Tunnel clips	Flexi-Loc clips - For assembling tunnels and elbow sections

Sizes	Standard Sizes	14" and 22" tunnel diameters	
	Recommended tunnel lengths	Maximum	30'
		Minimum	16"
	Dome Size (014)	Thickness = 1/8" or 3.2 mm, Height = 6-15/16" or 176.5 mm, Outside diameter= 17-9/16" or 446.2 mm, Inside diameter = 16-7/8" or 429.5 mm.	
	Dome Size (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 Size (014)	21" x 21" (534mm x 534mm)	
	Flashing Size (022)	31" x 31" (788mm x 788mm)	
	Ceiling Ring Size	14" Model	22" Model
		Inside Diameter = 356.5 mm, Outside Diameter = 426 mm.	Inside Diameter = 557.5 mm, Outside Diameter = 627 mm.
Certification	Air/Water/ Structural	☑ Hallmark ☐ TDI ☐ IAPMO-ES	☑ Florida ☐ Miami Dade ☐ LA Research Report
	Thermal (with energy kit)	☑ U-Factor ☐ Energy Star Option	☑ SHGC
Warranty	Complete Product	10 years from the date of purchase, VELUX warrants that the SUN TUNNEL 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, ECW tile flashing	
	Interior	New accessories - Decorative diffuser	
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 practical or where diffused light is desired.	