

Date: June 5, 2017
 Updated By: CJA



VCM/VCE/VCS Product Data Sheet

Starting Production Code: 05BB02

Description	General	VCM/VCE/VCS are top hung ventilated curb mounted skylights consisting of six integrated components – an interior condensation drainage gasket, an insulating glass unit, an interior window-grade rigid poly-vinyl chloride thermoplastic (PVC) white frame and sash; a manual, electric, or solar operator; exterior maintenance-free metal cladding/counter flashing and ASA corner keys.		
	Installation	Instructions	Installation Instructions provided - VAS 452864 (VCM/VCE), VAS 453525 (VCS)	
Orientation		The skylight has a specific top and bottom and can not be rotated.		
Applications		0° - 60° Install on a site built curb, at least 3 1/2 in. high. Under 20° - Condensation drops from the interior can be expected.		
Compatibility	Flashings	ECL	Engineered flashing for a single installation with thin roofing material and on roof pitches between 10° to 60°.	
		ECW	Engineered flashing for a single installation with tile roofing material and on roof pitches between 14° to 60°.	
	Blinds	FSCC - Solar powered Room darkening - double pleated blind		
		FSLC - Solar powered Light filtering - single pleated blind		
		DSC - Solar powered Blackout - flat blind		
RSC - Solar powered Light filtering - flat blind				
Materials	Corner Keys	One at each corner, Made of ASA Luran in neutral grey finish		
	PVC	Window-grade rigid poly-vinyl chloride thermoplastic white maintenance free frame and sash.		
	Cladding	15 gauge, 1.5 mm (0.06") roll formed aluminum (3105-H22) with neutral grey Kynar 500 finish		
		Type 04 - Lo-E3 tempered over laminated - All the benefits of Type 05 but with a laminated interior heat-strengthened glass lite for safety and better protection from both heat gain and fading. Features Neat® glass coating that stays cleaner, longer. Overall pane thickness is 17.6 mm.		
		Type 06 - Impact - Laminated heat strengthened with tempered LoE3. Features Neat® glass coating that stays cleaner, longer. Overall pane thickness is 18.2 mm. Laminated interlayer is 0.90 PVB.		
		Type 08 - White laminated - Laminated heat strengthened with tempered LoE3. Same as 04 but with a diffusing white interlayer. Features Neat® glass coating that stays cleaner, longer. Overall pane thickness is 17.6 mm. Laminated interlayer is 0.30 PVB.		
	Gaskets	Thermoplastic elastomer gaskets to prevent air leakage and water penetration. Sash gaskets are co-extruded with the PVC.		
Operator	Electrically operated with a 2.4 GHz radio control remote. Manual operation takes place by means of the operating loop supplied with the skylight and rod control.			

Operation	Sash	The complete sash can be removed in the field.		
		In the open position, the skylight operator can be disconnected from the sash.		
	Insect Screen	Fiberglass mesh screen		
	Operator	VCE - Electrical operator is available in one variant and is used with all skylight markets. Power requirements 120 Volts, 40 watts, 60 Hz. VELUX INTEGRA control pad is a standard component with each VCE.		
		VCM - Manual Truth operator is comprised of a gear driven system that is controlled by a closed hook or an in-reach crank handle. A robust chain with one point of contact is used to open and close the sash a full 11 inches. One chain size for all venting skylights.		
		VCS - Solar powered electric operator. VELUX INTEGRA control pad is a standard component with each VCS.		
	Rain Sensor	Electric operators are equipped with an integral rain sensor that automatically closes the skylight, provided the rain sensor gets wet when there is power to the skylight.		
	VCE/VCS Electric Controls	KLB 100 Battery back up (VCE)		
		KLI 110 Wall mounted keypad		
		KLF 100 Home automation integration and repeater		
		KLR 100 Radio frequency remote		
		KLR 200 Radio frequency remote (included)		
	VCM Manual Accessories	ZCT 300 6' - 10' manual telescopic rod		
		ZCT 100 3' Extension to ZCT 300		
ZZZ 212 Manual crank handle				
ZZZ 203 Eyelet with Universal Joint				
Misc.	ZOZ 216 Adhesive skylight underlayment			
	ZZZ 213 Skylight Trim Kit			
Sizes	Standard Sizes	2222, 2234, 2246, 3030, 3046, 3434, 4622 (VCS only), 4646		
	Outside Curb dimensions	Size	Width	Height
		2222	25-1/2" (675 mm)	25-1/2" (675 mm)
		2234	25-1/2" (675 mm)	37-1/2" (980 mm)
		2246	25-1/2" (675 mm)	49-1/2" (1285 mm)
		3030	33-1/2" (878 mm)	33-1/2" (878 mm)
		3434	37-1/2" (980 mm)	37-1/2" (980 mm)
		3046	33-1/2" (878 mm)	49-1/2" (1285 mm)
		4622	49-1/2" (1285 mm)	25-1/2" (675 mm)
		4646	49-1/2" (1285 mm)	49-1/2" (1285 mm)
Pass-Through Data	Ventilation Area and Daylight Area	Size	Ventilation Area	Daylight Area
		2222	3.17 sq. ft.	2.63 sq. ft.
		2234	4.16 sq. ft.	4.25 sq. ft.
		2246	5.15 sq. ft.	5.87 sq. ft.
		3030	4.49 sq. ft.	5.24 sq. ft.
		3046	5.81 sq. ft.	8.28 sq. ft.
		3434	5.15 sq. ft.	6.86 sq. ft.
		4622	5.15 sq. ft.	5.87 sq. ft.
		4646	7.13 sq. ft.	13.11 sq. ft.

Code Compliance	General	WDMA Hallmark, Florida Product Approval, Texas Dept. of Insurance Electric Version is UL Listed.
	Air, Water, Structural	Certified through WDMA/Hallmark, LA Research Report, IAPMO-ES
	Thermal	NFRC certified and labeled. Energy Model (VCM) ENERGY STAR®-qualified in all US zones.
Warranty	Installation	10 years from the date of purchase; VELUX No Leak Warranty; warrants skylight installation.
	Skylight	10 years from the date of purchase, VELUX warrants that the skylight will be free from defects in material and workmanship.
	Glass Seal	20 years from the date of purchase, VELUX warrants that the insulated glass pane will not develop a material obstruction of vision due to a failure of the glass seal.
	Hail Warranty	10 years from the date of purchase; VELUX warrants laminated glass panes against hail breakage.
	Accessories and Electrical Components	5 years from the date of purchase, VELUX warrants that VELUX blinds and control systems will be free from defects in material and workmanship.
Changes from Earlier Versions	Exterior	New product design to match the skylight product family. New neutral gray color, lower profile, and smoother look from the exterior.
	Interior	White maintenance free interior.
	Operator	New and improved solid state operator with integral rain sensor. Very quiet.
Type Sign	Example	VCE 2222 2004C 05BF02
	Location	Etched into the outside top surface of the sash.