



**VCM/E Product Data Sheet**

Starting Production Code: AX08G

Description	General	VCM and VCE are top hung ventilated curb mounted skylights consisting of six integrated components – an interior condensation drainage gasket, an insulating glass unit, an interior acrylonitrile-butadiene-styrene (ABS) white 10 year maintenance free frame, a manual or electric operator, exterior maintenance-free metal cladding/counter flashing and ASA corner keys. The VCM and VCE are the result of evolutionary developments applied to VES VCM/E curb mount skylights. These developments include a lighter weight, new design to match the rest of the product family, and a new color. Operation of the VCE takes place with a radio frequency (2.4 GHz) remote control control and the VCM is operated with a ZCT 300 manual control rode or a ZMT 300 battery operated control rod.
Installation	Instructions	Mounting Instructions included in every box or contact VELUX at 800-888-3589 or our web site <a href="http://www.velux-america.com">www.velux-america.com</a>
	Orientation	The skylight has a specific top and bottom and can not be rotated.
	Roof Pitch	0° - 60° Install on a sight built 2"x 4" or 2" x 6" curb. Under 20° Condensation drippage from the pane 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°. EDW - Engineered flashing for a single installation with thick roofing material and on roof pitches between 14° to 60°.
		Site fabricated flashing.
	Interior Accs.	DKC - Manual operated Blackout roller blind
		RFC - Manual translucent roller blind
		PAC - Manual venetian blind
		DMC - Electric Blackout blind
		RMC - Electric translucent roller blind
		PMC - Electric venetian blind
		DSC - Solar Blackout roller blind
RSC - Solar translucent roller blind		
Exterior Accs.	None available	
Materials	ABS	Acrylonitrile - butadiene - styrene - white 10 year maintenance free frame and sash. ABS helps to reduce the overall weight.
	Cladding/Frame	Lacquered aluminum, neutral gray in color with a Kynar 500 top finish to prevent fading.
	Counter Flashing	Aluminum is .060 in (1.5mm) thick
	Glazing	05 - A LoE3 double sealed insulated panes filled with warm edge technology, stainless steel spacer, 95% Argon gas and coated with three layers of microscopic silver particles to increase thermal performance. This glazing in improved over prior in that it allow in more visible light while blocking out more solar heat gain (spectrally selective). Replaces type 75 comfort. Over all pane thickness is 17.2mm. Standard for VCM.
		04 - LoE3 Laminated - All the benefits of the 05 LoE3 Glass plus a laminated interior pane for safety and maximum protection from both heat gain and fading. Replaces type 74 Comfort Plus. Over all pane thickness is 17.6mm. Standard for VCM/VCE

Materials Continued	Glazing continued	06 - Impact - Laminated heat strengthened with tempered low e 366. Over all pane thickness is 18.2mm.						
		08 - White laminated - Laminated heat strengthened with tempered low e 366. Same as 04 but a white inner layer. Over all pane thickness is 17.6mm.						
		10 - Snow load - Laminated tempered with tempered low e 366. Over all pane thickness is 18.2mm.						
	Gaskets	Patented engineered rubber gaskets to prevent air infiltration and water penetration.						
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.						
	Operator	Electrical operator is available in one variant and is used with all skylight markets. Power requirements 120 Volts, 40 watts, 60 Hz. A 2.4 Ghz remote control is a standard component with each VSE.						
		Manual Truth operator is comprised of a gear driven system that is controlled by a closed lock 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.						
	Rain Sensor	Electric operators are equipped with an external rain sensor that automatically closes the skylight provided the rain sensor gets wet that there is power to the skylight.						
	VCE Electric Controls	KLB 100 Battery back up						
		KLI 110 Wall mounted keypad						
		KLF 100 Home automation integration and repeater						
		KLR 100 Radio frequency remote						
	VCM Manual Accessories	ZCT 300 6' - 10' manual telescopic rod						
		ZMT 300 6' - 10' motorized telescopic rod						
ZCT 100 3' Extension to ZCT 300 and ZMT 300								
ZZZ 212 Manual crank handle with extension								
ZZZ 203 Eyelet with Universal Joint								
Misc	ZOZ 216 Adhesive skylight underlayment							
	ZZZ 213 skylight trim kit							
Sizes	Standard Sizes	2222, 2230, 2234, 2246, 3030, 3046, 3434, 4622, 4646						
	Outside Curb Dimensions	Size	Width			Size	Height	
		22	25 1/2"	675 mm		22	25 1/2"	675 mm
		30	33 1/2"	878 mm		30	33 1/2"	878 mm
		34	37 1/2"	980 mm		34	37 1/2"	980 mm
46		49 1/2"	1285 mm		46	49 1/2"	1285 mm	
Product Data	Ventilation Area and Daylight Area	Size	Ventilation Area			Size	Daylight Area	
		2222	3.17 sq. ft.			2222	2.63 sq. ft.	
		2230	3.83 sq. ft.			2230	3.71sq. ft.	
		2234	4.16 sq. ft.			2234	5.87 sq. ft.	
		2246	5.15 sq. ft.			2246	5.87 sq. ft.	
		3030	4.49 sq. ft.			3030	2.24 sq. ft.	
		3046	5.81 sq. ft.			3046	8.28 sq. ft.	
		3434	5.15 sq. ft.			3434	6.86 sq. ft.	
		4646	7.13 sq. ft.			4646	13.11 sq. ft.	

Certification	General	Exceeds International Building Code (IBC), International Residential Code (IRC) and International Energy Conservation Code (IECC). Electric Version is UL Listed.
	Air, Water, Structural	Certified through WDMA/Hallmark, Architectural Testing, Inc Code Compliance Research Report CCR-xxxx.
	Thermal	NFRC certified and labeled to Exceed EnergyStar U-value and Solar Heat Gain (SHGC) requirements for all climate zones.
Warranty	Frame	10 years from the date of purchase, VELUX warrants that the skylight will be free from defects in material and workmanship.
	Glass	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.
	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. The rain sensor is now mounted on the outside lower right corner of the flashing.
	Interior	White maintenance free interior.
	Operator	New and improved solid state operator with external rain sensor. Very quiet.
Type Sign	Example	VCE 2222 2004B AX09G
	Location	Pressed into the outside top surface of the sash.