

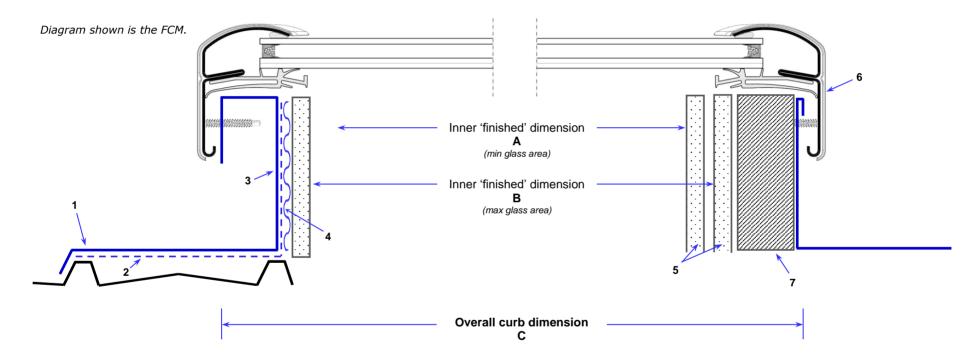
FLAT ROOF SKYLIGHTS – FCM/VCM/VCS ("Curb Mounted" Skylights)

Curb detail - suggestion only. (flashing is not supplied with the flat roof skylights)

The diagram describes a suggested method of fixing the FCM/VCM/VCS on a curb flashing. As such it is intended to be used **<u>as a guide only</u>**. Any roof flashing, waterproofing or insulation is to be supplied by the installer/roofer and must be suitable for the type of roofing material.

The installation of the flashing onto the roof remains the responsibility of the installer.

This diagram does <u>not</u> apply to any internal and/or external guarantees issued.



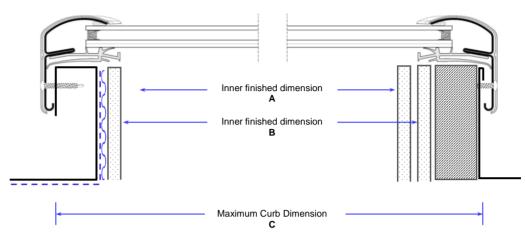
1	Purpose built flashing / curb	Flashing made by installer. Must cover min 2 ribs of roofing. Must have 'turnback' for water splashback.
2	Underlay / thermal blanket	Waterproof / thermal barrier - ideally wrapped around the entire curb before flashing is installed.
3	Curb / Upstand	Minimum recommended height 100mm. Must comply with local building regulations. 35mm-50mm wide.
4	Insulation	Optional. Supplied by installer.
5	Internal Lining (eg: plasterboard)	Position of lining will determine the overall exposed glass area. (can encroach on glass area up to max 15mm each side)
6	Skylight frame	Fits over and secures to curb.
7	Timber Curb	Offers more secure installation with better thermal properties. Timber curb must be used in cyclonic regions.



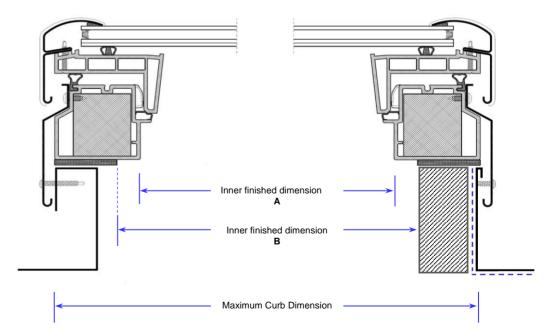
All dimensions in mm

	FCM / VCM / VCS			
Model	Inner finished dimer	nsion ' A' – minimum		
1430	335	745		
2222 *	540	540		
2230	540	745		
2234 *	540	845		
2246 *	540	1150		
2270 ^	540	1760		
3030 *	745	745		
3046 *	745	1150		
3434	845	845		
4646 *	1150	1150		
	Inner finished dimer	nsion ' B ' – maximum		
1430	368	775		
2222 *	572	572		
2230	572	775		
2234 *	572	876		
2246 *	572	1181		
2270 ^	572	1792		
3030 *	775	775		
3046 *	775	1181		
3434	876	876		
4646 *	1181	1181		
	MAXIMUM Cur	b dimension ' C '		
1430	460	870		
2222 *	665	665		
2230	665	870		
2234 *	665	970		
2246 *	665	1275		
2270 ^	665	1885		
3030 *	870	870		
3046 *	870	1275		
3434	970	970		
4646 *	1275	1275		

FCM



VCM / VCS

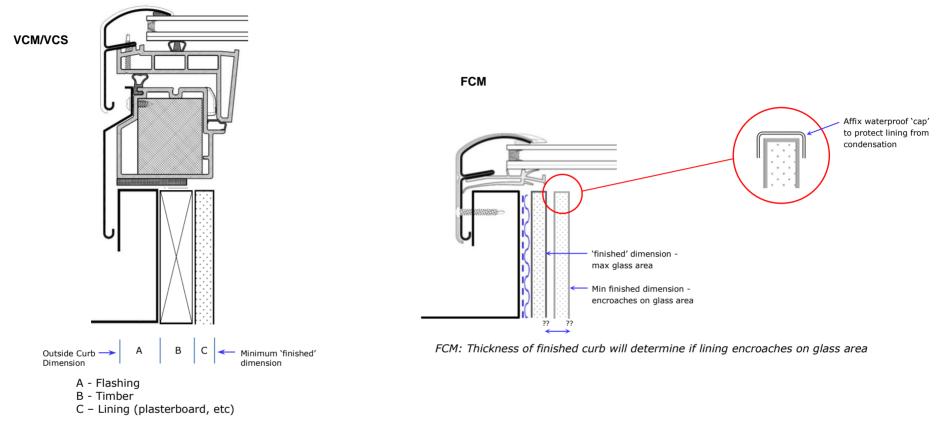


* VCM/VCS cannot be installed in landscape orientation

^ 2270 not recommended for landscape orientation



BUILDING THE CURB / CURB THICKNESS



Curb thickness: Comprises Flashing+Curb+Lining

(Timber curbs are mandatory for cyclonic regions)

Outside Curb Dimension	Model	mm	mm
	1430	460	x 870
	* 2222	665	x 665
	2230	665	x 870
	* 2234	665	x 970
	* 2246	665	x 1275
	2270	665	x 1885
	* 3030	870	x 870
	* 3046	870	x 1275
	3434	970	x 970
	* 4646	1275	x 1275

Inside Finished Dimension	Model	mm		mm
(min)	1430	335	х	745
	* 2222	540	х	540
	2230	540	х	745
	* 2234	540	х	845
	* 2246	540	х	1150
	2270	540	х	1760
	* 3030	745	х	745
	* 3046	745	х	1150
	3434	845	х	845
	* 4646	1150	х	1150

* VCM/VCS - Cannot be installed in landscape orientation

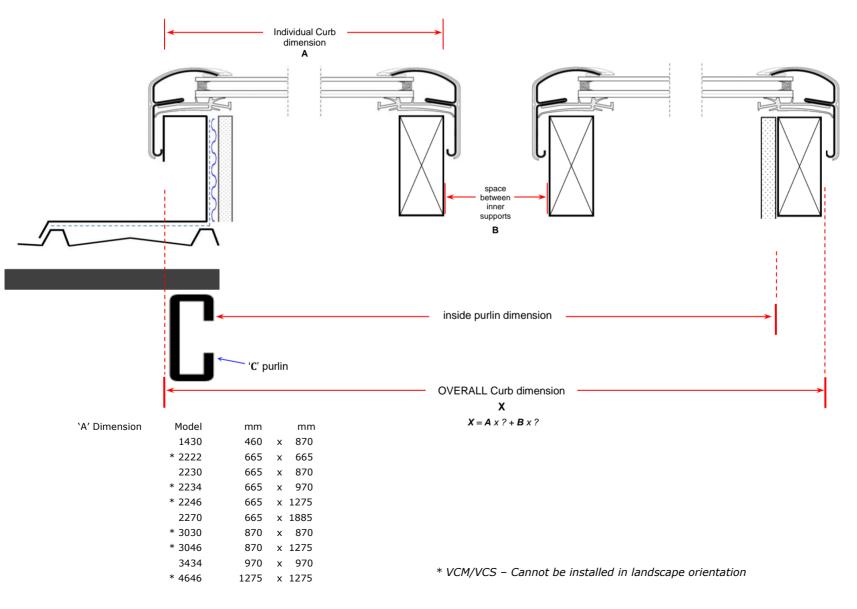


MULTIPLE SKYLIGHTS

Overall Curb Dimension and Inside Purlin dimension is dependent on the following:

- Total number of skylights
- Space between skylights (recommended minimum = 100mm)

* Inside purlin dimension: can be single large opening if desired – however inner supports are still needed for the individual skylights. (see diagram next page)





Example of large, single opening for multiple skylights.





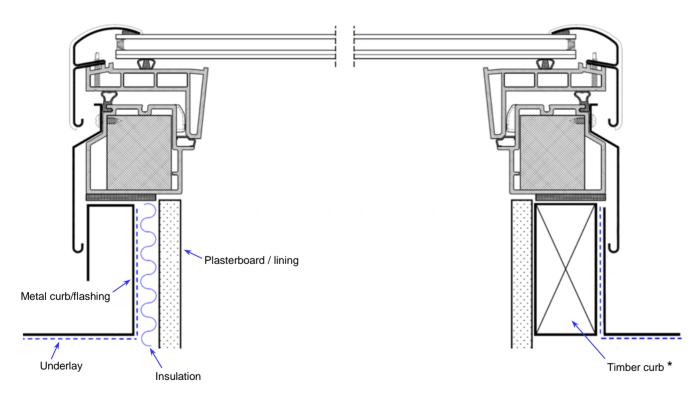
INSULATION

Whenever you install a Flat Roof Skylight, VELUX recommends you insulate the base and/or flashing for maximum thermal efficiency. (VELUX does not supply insulation)

With an appropriate insulation and lining, a skylight can achieve very high thermal efficiency.

The addition of a timber curb timer will increase the overall thermal rating of the installation. However, if you are using a timber curb, insulation <u>may</u> not be necessary. Consult with relevant authorities for thermal efficiency requirements.

VELUX always recommends using an underlay with any type of flashing.



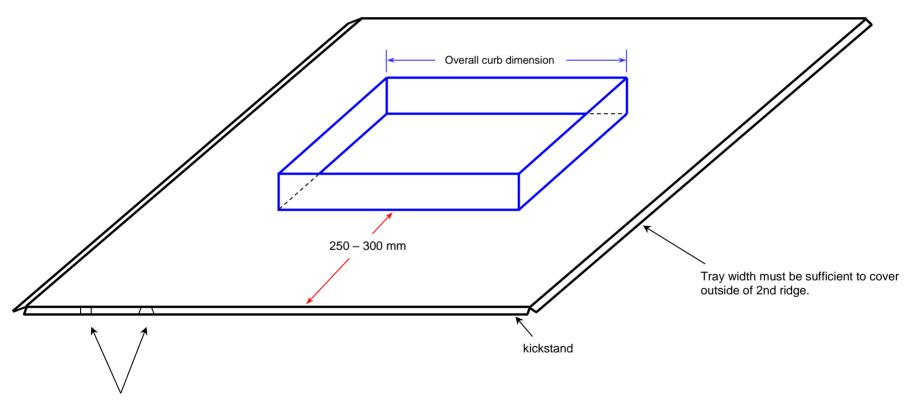
* Timber curbs are mandatory for cyclonic regions



The top tray of the base can be installed:

- Above the roofing preferably all the way to the ridge capping (see diagram last page)
- Under the roofing. The top of the base can be made as a flat panel to go under metal roofing. (see diagram last page)

(the kickstand must suit the height of the roofing material)

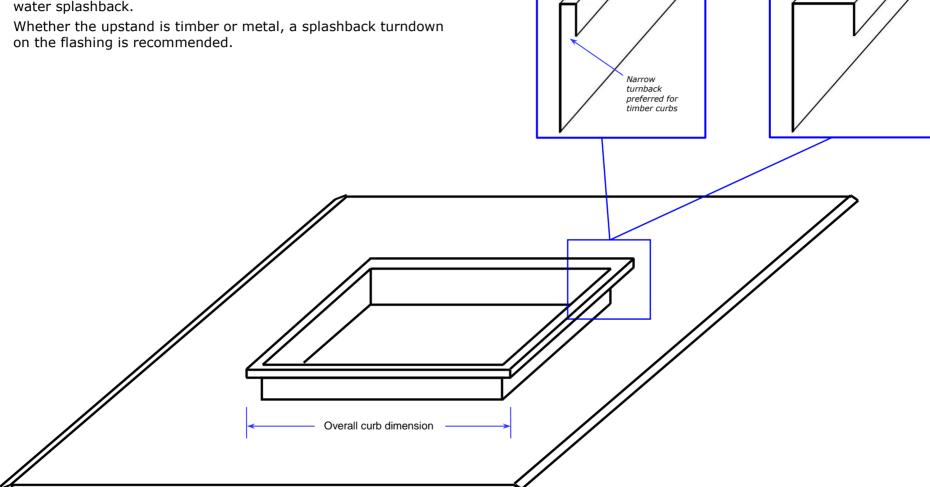


Cut-outs to suit roofing profile - Kliplok, Trimdek, Span deck, etc



Alternative design

An alternative design of the base utilises a "turndown" to deflect water splashback.



Bases are for illustration purposes ONLY. The 'apron' for each base must be made to suit the relevant roofing material. (as per pictures below)

eg: for a tiled roof a flexible bottom apron is recommended. The sides and top of the base should sit under the tiles and the flexible apron should sit **above** the row of tiles immediately below the skylight.



Purpose-built flashing with top tray <u>above</u> roofing material





Purpose-built flashing with top tray <u>under</u> roofing material