

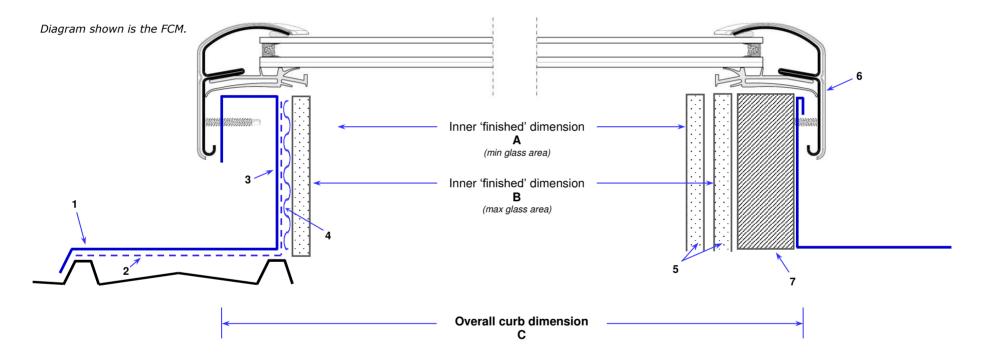
FLAT ROOF SKYLIGHTS - FCM/VCM/VCS ("Curb Mounted" Skylights)

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 not 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.

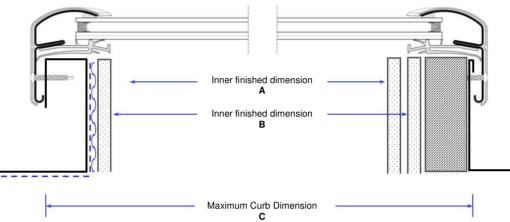


All dimensions in mm

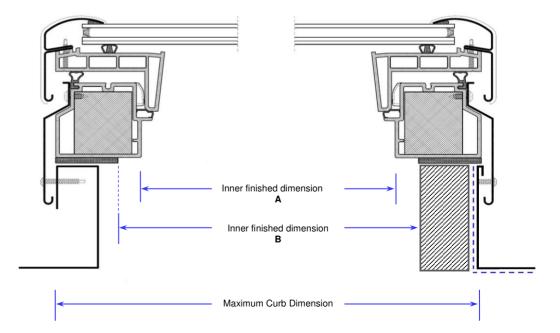
		FCM / VCM / VCS					
Model		Inner finished dimension 'A' – minimum					
1430		335	745				
2222	*	540	540				
2230		540	745				
2234	*	540	845				
2246	*	540	1150				
2270 ^		540	1760				
3030	*	745	745				
3046	*	745	1150				
3434		845	845				
4646	*	1150	1150				
		Inner finished dimension 'B' – maximum					
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 Curb 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				

^{*} VCM/VCS cannot be installed in landscape orientation





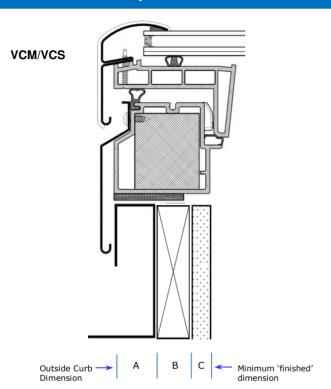
VCM / VCS



^{^ 2270} not recommended for landscape orientation



BUILDING THE CURB / CURB THICKNESS



- A Flashing
- B Timber
- C Lining (plasterboard, etc)

Affix waterproof 'cap' to protect lining from condensation 'finished' dimension - max glass area Min finished dimension - encroaches on glass area

FCM: Thickness of finished curb will determine if lining encroaches on glass area

Curb thickness: Comprises Flashing+Curb+Lining

(Timber curbs are mandatory for cyclonic regions)

Outside Curb Dimension	Model	mm	mn	Inside Finished Dimension	Model	mm		mm
	1430	460	x 870) <i>(min)</i>	1430	335	Х	745
	* 2222	665	x 66!	5	* 2222	540	Х	540
	2230	665	x 870)	2230	540	Х	745
	* 2234	665	x 970)	* 2234	540	Х	845
	* 2246	665	x 1275	5	* 2246	540	Х	1150
	2270	665	x 1885	5	2270	540	Х	1760
	* 3030	870	x 870)	* 3030	745	Χ	745
	* 3046	870	x 1275	5	* 3046	745	Х	1150
	3434	970	x 970)	3434	845	Х	845
	* 4646	1275	x 1275	, ,	* 4646	1150	Х	1150

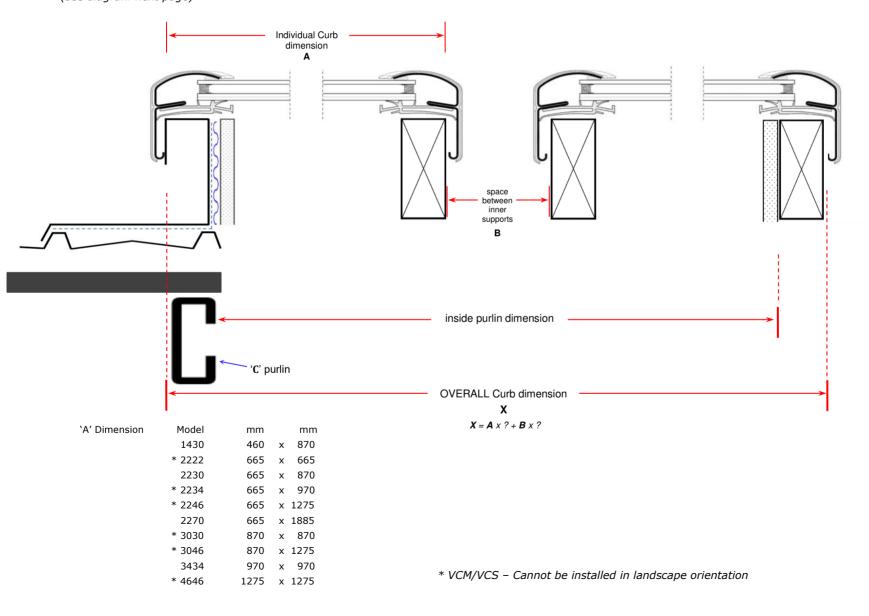
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MULTIPLE SKYLIGHTS

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

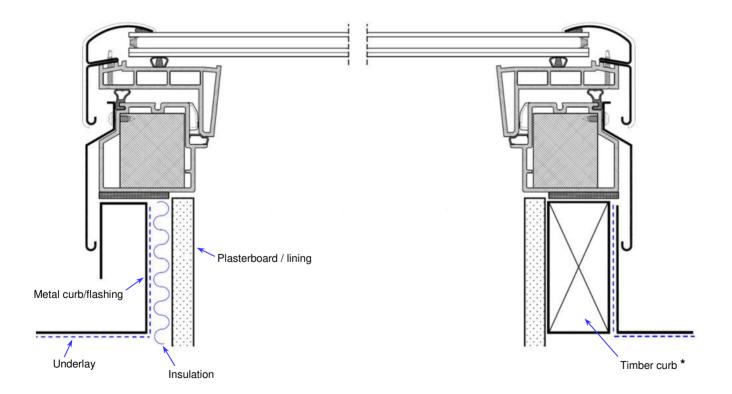
Whenever you install a Flat Roof Skylight, VELUX recommends you insulate the base and/or flashing for maximum thermal efficiency. (VELUX does not supply insulation)

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.



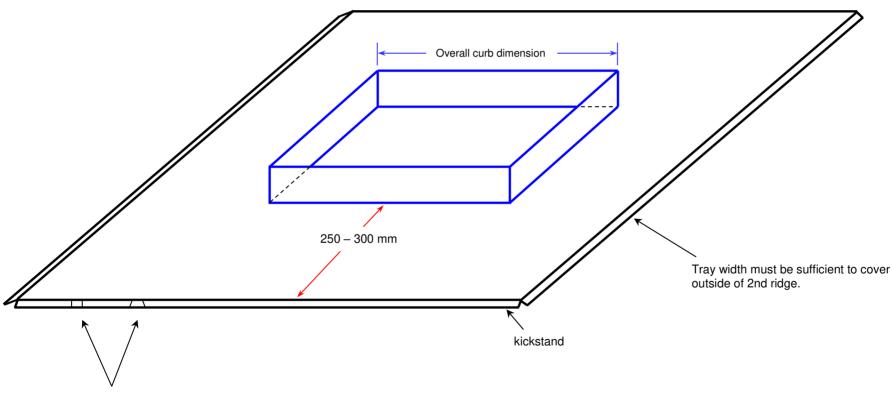
^{*} Timber curbs are mandatory for cyclonic regions



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)



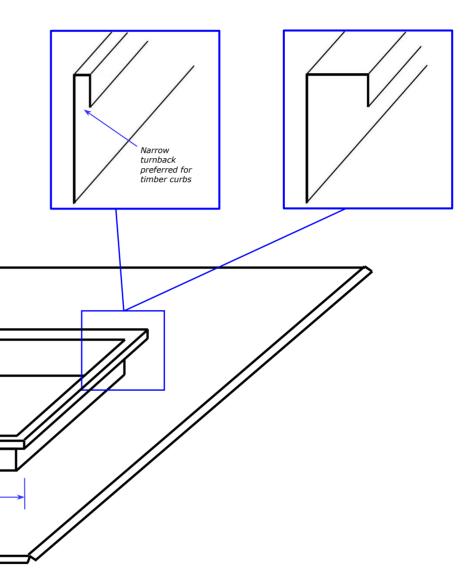
Cut-outs to suit roofing profile - Kliplok, Trimdek, Span deck, etc



Alternative design

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

Whether the upstand is timber or metal, a splashback turndown on the flashing is recommended.



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

Overall curb dimension

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 under roofing material