

# Technical Data

ELECTRIC OPENING SKYLIGHTS – MODEL VSE (Installed Pitch 15°– 85°)					
SIZE CODES	VSE 104	VSE 304	VSE 308	VSE 601	VSE 606
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 X 700	1140 x 1180
R Value for Skylight (m <sup>2</sup> °C/W) 1	0.44	0.44	0.44	0.44	0.44
R Value for Glazing (m <sup>2</sup> °C/W) 2	0.72	0.72	0.72	0.72	0.72
Solar Heat gain coefficient g 3	0.29	0.29	0.29	0.29	0.29
UV light reduction in % 4	86%	86%	86%	86%	86%
Sound reduction in db 5	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.34 m <sup>2</sup>	0.53 m <sup>2</sup>	0.81 m <sup>2</sup>	0.54 m <sup>2</sup>	1.02 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.34 m <sup>2</sup>	0.40 m <sup>2</sup>	0.51 m <sup>2</sup>	0.20 m <sup>2</sup>	0.54 m <sup>2</sup>

ROOF WINDOWS – MODEL GGL (Installed Pitch 15°– 85°)							
ORDER CODES	GGL C02	GGL C04	GGL M04	GGL M06	GGL M08	GGL S06	GGL S08
External frame dimensions mm (wxh)	550 x 780	550 x 980	780 x 980	780 x 1180	780 x 1400	1140 x 1180	1140 x 1400
R Value for Roof Window (m <sup>2</sup> K/W) 1	0.71	0.71	0.71	0.71	0.71	0.71	0.71
R Value for Glazing (m <sup>2</sup> K/W) 2	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Solar Heat gain coefficient g 3	0.54	0.54	0.54	0.54	0.54	0.54	0.54
UV light reduction in % 4	95%	95%	95%	95%	95%	95%	95%
Sound reduction in db 5	35 db	35 db	35 db	35 db	35 db	35 db	35 db
Daylight area in m <sup>2</sup>	0.20 m <sup>2</sup>	0.27 m <sup>2</sup>	0.44 m <sup>2</sup>	0.56 m <sup>2</sup>	0.69 m <sup>2</sup>	0.90 m <sup>2</sup>	1.11 m <sup>2</sup>
Ventilation flap area in m <sup>2</sup>	0.004 m <sup>2</sup>	0.004 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.0103 m <sup>2</sup>	0.0103 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.32 m <sup>2</sup>	0.38 m <sup>2</sup>	0.57 m <sup>2</sup>	0.72 m <sup>2</sup>	0.86 m <sup>2</sup>	1.08 m <sup>2</sup>	1.36 m <sup>2</sup>

MANUAL OPENING SKYLIGHTS – MODEL VS (Installed Pitch 15°–85°)					
SIZE CODES	VS 104	VS 304	VS 308	VS 601	VS 606
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight (m <sup>2</sup> °C/W) 1	0.44	0.44	0.44	0.44	0.44
R Value for Glazing (m <sup>2</sup> °C/W) 2	0.72	0.72	0.72	0.72	0.72
Solar Heat gain coefficient g 3	0.32	0.32	0.32	0.32	0.32
UV light reduction in % 4	86%	86%	86%	86%	86%
Sound reduction in db 5	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.34 m <sup>2</sup>	0.53 m <sup>2</sup>	0.81 m <sup>2</sup>	0.54 m <sup>2</sup>	1.02 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.34 m <sup>2</sup>	0.40 m <sup>2</sup>	0.51 m <sup>2</sup>	0.20 m <sup>2</sup>	0.54 m <sup>2</sup>

# Technical Data

## FIXED SKYLIGHTS – MODEL FS (Installed Pitch 15°– 85°)

SIZE CODES	FS 101	FS 104	FS 304	FS 308	FS 601	FS 606
External frame dimensions mm (wxh)	550 x 700	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight (m <sup>2</sup> °C/W) 1	0.45	0.45	0.45	0.45	0.45	0.45
R Value for Glazing (m <sup>2</sup> °C/W) 2	0.68	0.68	0.68	0.68	0.68	0.68
Solar Heat gain coefficient g 3	0.32	0.32	0.32	0.32	0.32	0.32
UV light reduction in % 4	86%	86%	86%	86%	86%	86%
Sound reduction in db 5	29 db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.28 m <sup>2</sup>	0.41 m <sup>2</sup>	0.62 m <sup>2</sup>	0.91 m <sup>2</sup>	0.64 m <sup>2</sup>	1.15 m <sup>2</sup>

## LOW PITCH SKYLIGHTS – MODEL FCM (Installed Pitch 0°– 60°)

SIZE CODES	FCM 2222	FCM 2246*	FCM 3030	FCM 4646
Actual Skylight dimensions mm	679 x 679	679 x 1289	883 x 883	1289 x 1289
Outside Curb dimensions mm	648 x 648	648 x 1257	851 x 851	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	775 x 775	1181 x 1181
R Value for Skylight (m <sup>2</sup> °C/W) 1	0.44	0.44	0.44	0.44
R Value for Glazing (m <sup>2</sup> °C/W) 2	0.72	0.72	0.72	0.72
Solar Heat gain coefficient g 3	0.34	0.34	0.34	0.34
UV light reduction in % 4	87%	87%	87%	87%
Sound reduction in db 5	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.68 m <sup>2</sup>	0.60 m <sup>2</sup>	1.39 m <sup>2</sup>

\*Note: Model FCM can also be installed horizontally

## SUN TUNNELS – MODELS TWR, TWF

Internal diameter dimensions in mm	350
R value for Complete unit (m <sup>2</sup> K/W) 1	0.45
UV light reduction in % 4	99%

These values are measured in accordance with the following standards:

		GGL	VSE/VS/FS/FCM	TWR/TWF
1	Thermal resistance of complete unit	EN ISO 12567-2 m <sup>2</sup> K/W	NFRC 102 m <sup>2</sup> °C/W	NFRC 100 m <sup>2</sup> K/W
2	Thermal resistance of glazing unit	EN 673 m <sup>2</sup> K/W	NFRC 300 m <sup>2</sup> °C/W	
3	Solar Heat gain coefficient g	EN 410	NFRC 200	
4	UV light reduction	EN 410	NFRC 300	VELUX internal tests
5	Sound reduction of complete unit in dB	EN ISO 717-1		