CERTIFICATE

Certified Passive House Component Component-ID 2164sk03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category:	Skylight
Manufacturer:	Whitesales,
	Livingston,
	United Kingdom
Product name:	Monopitch PH

This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_{SK} = 0.77$	\leq	1.10 W/(m ² K)
	$U_{SK, installed}$	\leq	1.10 W/(m ² K)
	with U_g	=	0.80 W/(m ² K)

Hygiene $f_{Rsi=0.25}$ \geq 0.70





Whitesales

Unit 1, 28 Firth Road Houston Industrial Estate, EH54 5DJ Livingston, United Kingdom ☎ 01506 448 140 | ⊠ | [™] http://www.whitesales.co.uk/ |

Description

Monopitch skylight with aluminium facing shell. Mineralwool insulation (0.04 W/(mK)) filling. Transoms insulated by EPS (0.035 W/(mK)). Contains surcharge of 0.02 W/m²K for pressure plate fasteners. Pane thickness: 53.5 mm (6/16/6/16/9.5), rebate depth: 15 mm. The U-values of the glass-splits (Transom and mullion) contain a 0.3 W/m²K surcharge for the screws. The certificate is also valid for smaller box heights.

Explanation

The window U-values were calculated for the test window size of $1.50 \text{ m} \times 1.50 \text{ m}$ with $U_g = 0.80 \text{ W/(m^2 K)}$. If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.80	0.78	0.76	0.70	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.77	0.76	0.75	0.72	W/(m ² K)

Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

Further information relating to certification

can be found on www.passivehouse.com and passipedia.org.

Frame values	S		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion fixed	(0M1)		50	0.91	0.049	0.77
Transom fixed	(0T1)	+	50	0.95	0.055	0.76
Bottom	(OB1)		199	0.59	0.046	0.71
Тор	(OH1)	T	208	0.55	0.044	0.73
Lateral	(OJ1)	1	208	0.55	0.044	0.73
Spacer: Super Spacer® TriSeal™ / T-Spacer™ SG Secondary seal: Polysulfide						

Validated installations

www.passivehouse.com