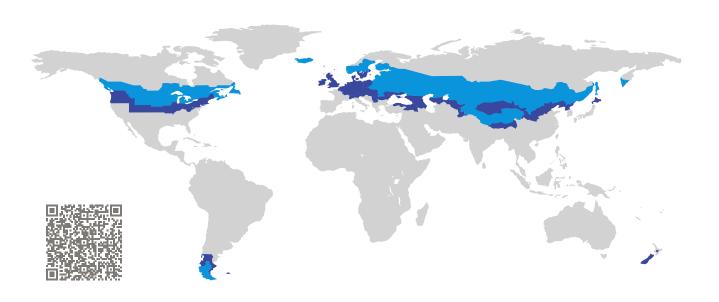
CERTIFICATE

Certified Passive House Component

Component-ID 2065fx02 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: **Fixed window**

Manufacturer: LiteZone Glass Inc.,

Edmonton, AB,

Canada

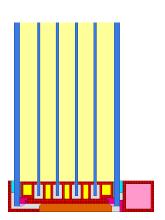
Product name: LiteZone® L0679 PH Frameless

This certificate was awarded based on the following criteria for the cold climate zone

 $U_W = 0.60 \le 0.60 \,\mathrm{W/(m^2\,K)}$ Comfort

 $U_{W, \text{installed}} \quad \leq \quad 0.65 \, \text{W/(m}^2 \, \text{K)}$ with $U_q = 0.52 \,\mathrm{W/(m^2 \,K)}$

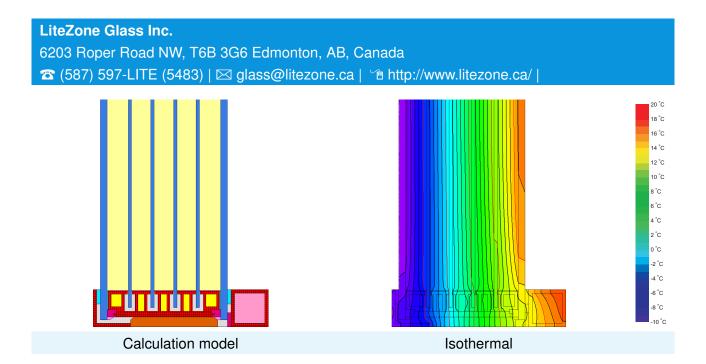
 $f_{Rsi=0.25}$ \geq 0.75 Hygiene



cold climate

ph A+





Description

Fixed glazing with glazing bead and spacer made of glass fiber reinforced plastic (0.45 - 0.50 W/(mK) depending on grain direction. Glazing bead with insulating material insert (0.032 W/(mK). Multichamber system, air-filled space between panes. The characteristic values of the glass configurations can be found in the database.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.52$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

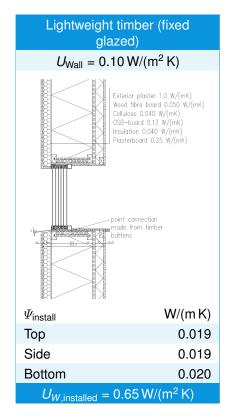
Glazing
$$U_g = \begin{array}{cccccc} 0.52 & 0.44 & 0.42 & 0.40 & \text{W/(m}^2 \, \text{K)} \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ \text{Window} & U_W = \begin{array}{ccccc} 0.60 & 0.53 & 0.51 & 0.49 & \text{W/(m}^2 \, \text{K)} \end{array}$$

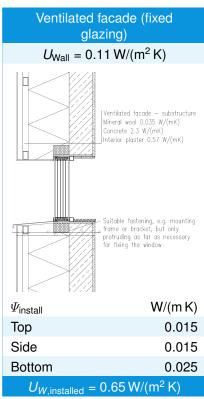
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

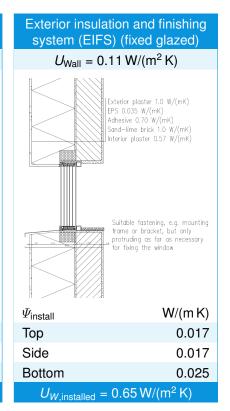
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

Validated installations







Frame valu	Jes		Frame width <i>b_f</i> mm	U -value frame U_f W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]	
Mullion fixed	(0M1)	-	61	0.33	0.038	0.78	
Bottom fixed	(FB1)	1	33	0.34	0.034	0.79	
Top fixed	(FH1)	T	33	0.34	0.034	0.79	
Lateral fixed	(FJ1)		33	0.34	0.034	0.79	
			Spacer:	Secondary s	Secondary seal: -		

