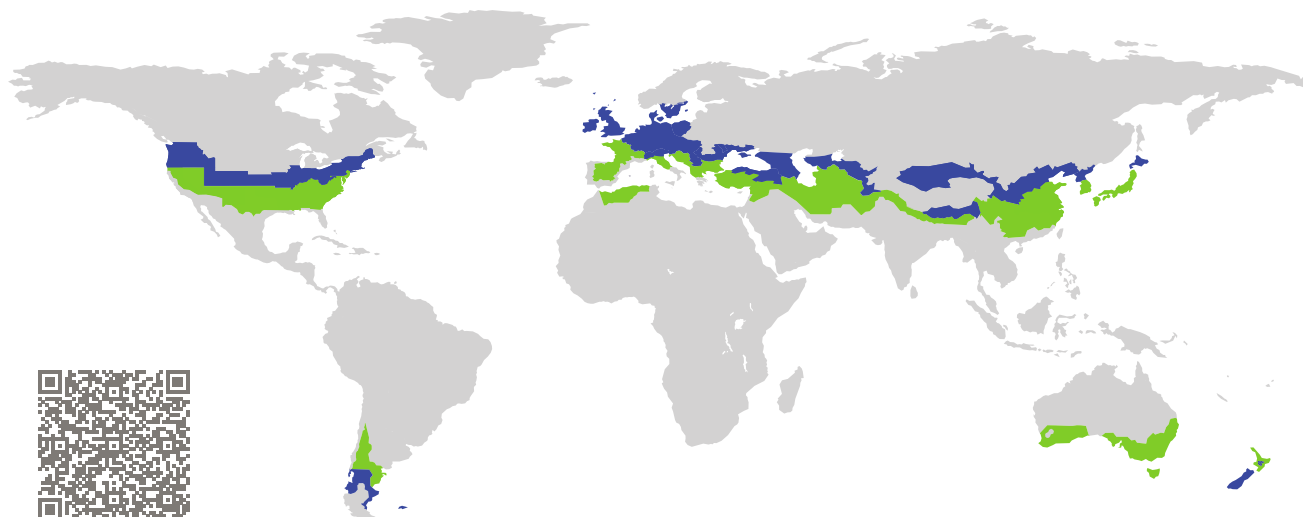


CERTIFICATE

Certified Passive House Component

Component-ID 2188cw03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

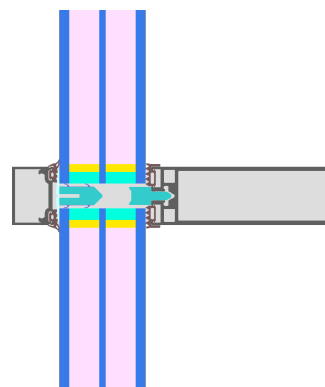


Category: **Curtain Wall**
Manufacturer: **REYNAERS ALUMINIUM NV/SA,**
Duffel,
Belgium
Product name: **Slimwall 35**

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

Comfort $U_{CW} = 0.80 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{CW, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$
with $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$

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



cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Passive House efficiency class

phE

phD

phC

phB

phA

phA+

www.passivehouse.com



Description

Aluminium stick curtain wall 35 mm wide, insulation by XPET/XPE-foam (0.029/0.038 W/mK). Glass thickness 52 mm (6/18/4/18/6) with 10 mm insertion and Edgetech Super Spacer Premium with butyl secondary seal. Non-metallic glass carrier - standard supplementary ChiGT-value of 0.003 W/K applied. Stainless steel pressure plate screws at 300 mm centres - standard supplementary Delta-U-value of 0.30 W/(m2K) applied.

Explanation






The element U-values were calculated for the test element size of 1.20 m × 2.50 m with $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$. If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.70	0.63	0.58	0.52	W/(m ² K)
		↓	↓	↓	↓	
Element	U_{CW}	0.80	0.74	0.69	0.63	W/(m ² K)

Transparent building components are sorted 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.

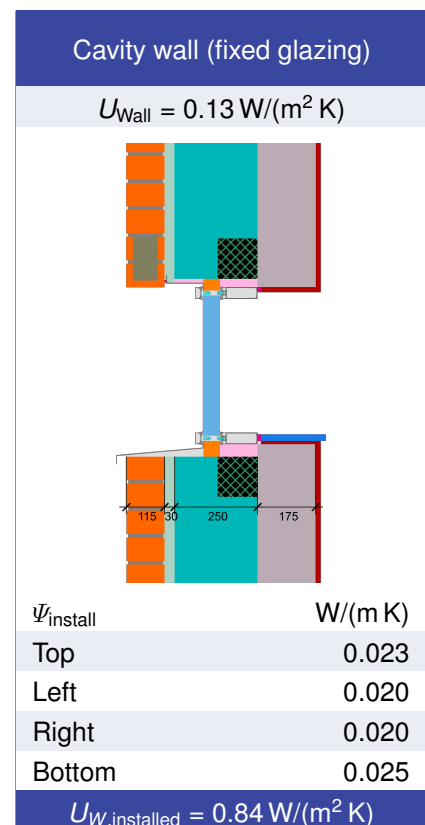
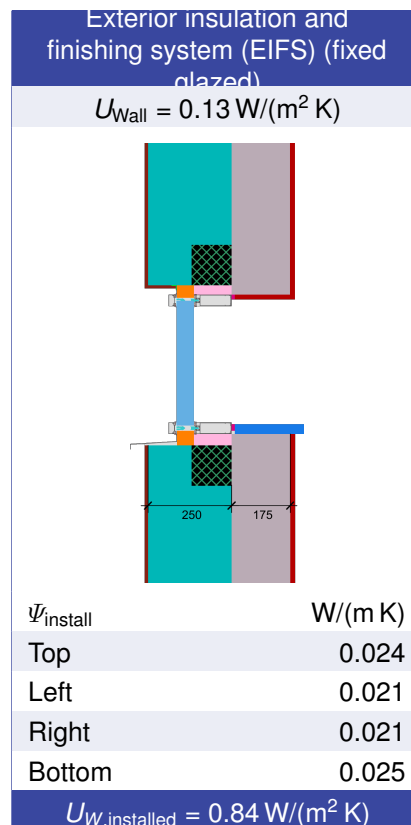
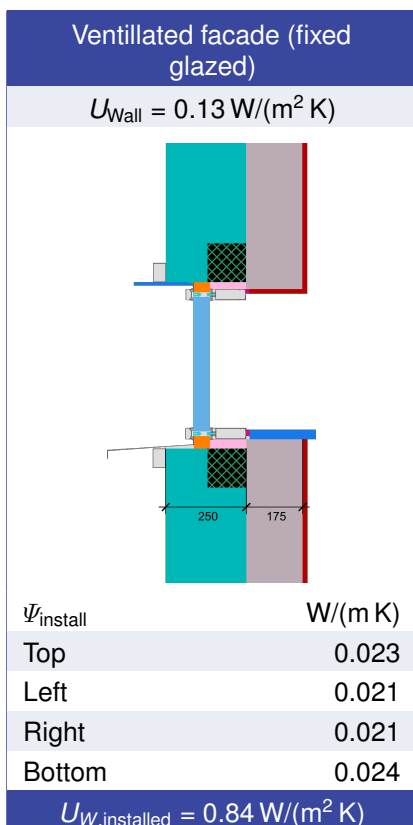
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make 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			Frame width b_f mm	U -value frame U_f ¹ W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Mullion fixed	(0M1)		35	1.00	0.037	0.81
Transom fixed	(0T1)		35	1.00	0.037	0.81
Bottom fixed	(FB1)		35	1.02	0.036	0.81
Top fixed	(FH1)		35	1.02	0.036	0.81
Lateral fixed	(FJ1)		35	1.02	0.036	0.81
			Spacer: Super Spacer® Premium		Secondary seal: Butyl	

Thermal glass carrier bridge² $\chi_{GT} = 0.003$ W/K

Validated installations



¹ Includes $\Delta U = 0.30$ W/(m² K). Standard value

² Standard value. Glass carrier type: Non-metallic

