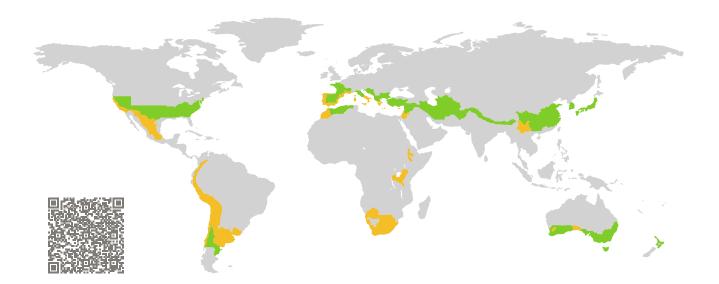
CERTIFICATE

Certified Passive House Component Component-ID 2396wi04 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

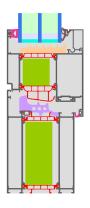


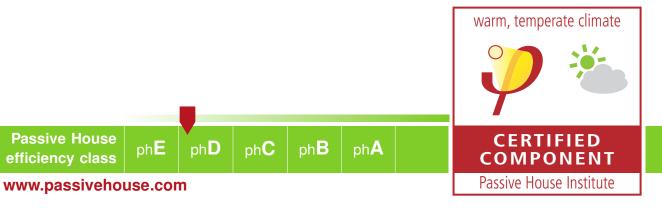
Category:	Window Frame
Manufacturer:	Hydro Building Systems Germany
	GmbH,
	Ulm,
	Germany
Product name:	WICONA WICLINE 75 NG

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

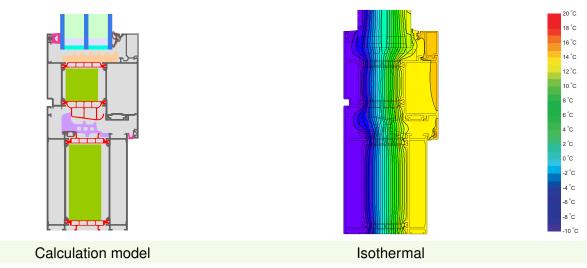
Comfort	<i>U_W</i> = 1.00	\leq	1.00 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	1.05 W/(m ² K)
	with U_g	=	0.90 W/(m ² K)

Hygiene $f_{Rsi=0.25}$ \geq 0.65









Description

Aluminium frame with thermal separation (Insulbar LI 0.21 W/(mK)) and insulation insert (PU hard foam 0.030 W/(mK)). Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 15 mm.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.90$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.90	0.70	0.64	0.58	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	1.00	0.89	0.86	0.83	W/(m ² K)

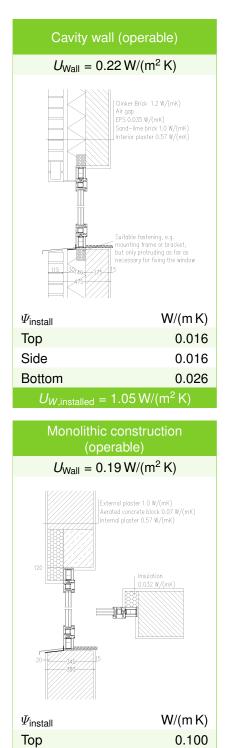
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations 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 value	S		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	7	207	0.97	0.023	0.75
Bottom	(OB1)	4	182	1.00	0.023	0.75
Тор	(OH1)	f	182	1.00	0.023	0.75
Lateral	(OJ1)	11-	182	1.00	0.023	0.75
	S	pacer: S	WISSPACER ULTIN	IATE S	Secondary seal: Buty	

Validated installations



0.010

0.032

	ation and finishing IFS) (operable)
$U_{Wall} = 0$).23 W/(m ² K)
	Exterior plaster 1.0 W/(mK) EPS 0.035 W/(mK) Adhesive 0.70 W/(mK) Sand-lime brick 1.0 W/(mK) Interior plaster 0.57 W/(mK)
	 Suitable fastening, e.g. mounting frame or bracket, but only protruding as far as necessary for 15
$\Psi_{install}$	W/(mK)
Тор	0.005
Side	0.005
Bottom	0.025

 $U_{W,\text{installed}} = 1.03 \text{ W/(m² K)}$

4

Side

Bottom

www.passivehouse.com