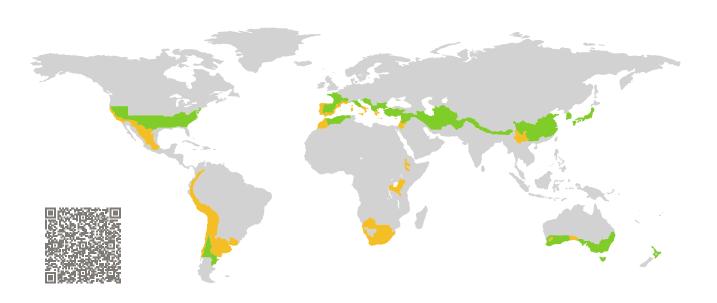
# **CERTIFICATE**

**Certified Passive House Component** 

Component-ID 2399wi04 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Hydro Building Systems Italy S.p.A.,

Cernusco sul Naviglio MI,

Italy

Product name: **DOMAL SOLEAL NEXT 75** 

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

Comfort  $U_W = 1.00 \le 1.00 \text{ W/(m}^2 \text{ K)}$ 

 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with  $U_q = 0.90 \text{ W/(m}^2 \text{ K)}$ 

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

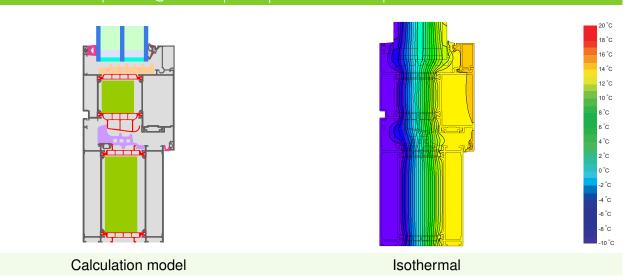




## Hydro Building Systems Italy S.p.A.

None, 20063 Cernusco sul Naviglio MI, Italy

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## **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/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

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			Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U<sub>f</sub></i> W/(m² K)	$\Psi$ -glazing edge $\Psi_g$ 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
Head	(OH1)	F	182	1.00	0.023	0.75
Jamb	(OJ1)	1	182	1.00	0.023	0.75
	Spacer: Swisspacer Ultimate				Secondary seal: Butyl	

### Validated installations

