

Certificate

Certified Passive House Component

for cool, temperate climates; valid until 31.12.2019

Category: **External venetian blind**
 Manufacturer: **HELLA Sonnen- + Wetterschutztech. GmbH**
9913 Abfaltersbach, AUSTRIA
 Product name: **TRAV@frame passiv M_store-IS**

The certification is based on a standard
 Passive House frame.

This certificate was awarded based on the following criteria:

The installed window is calculated with the roller shutter box
 at the top and guide rails on both sides.
 The heat losses are determined with $U_g = 0.70 \text{ W}/(\text{m}^2\text{K})$,
 for window dimensions of $1.23 \text{ m} * 1.48 \text{ m}$ and with

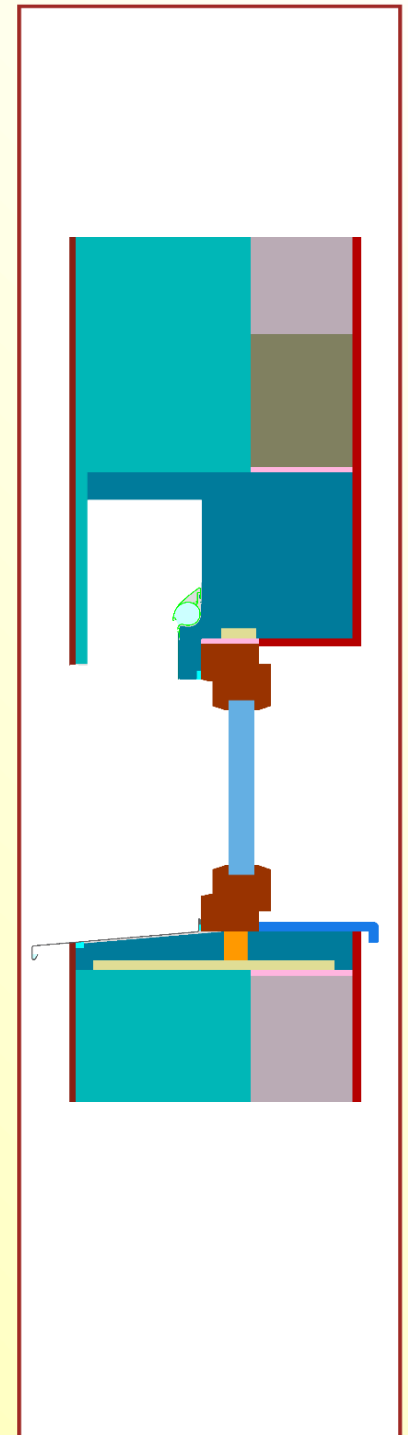
$$U_w = 0.79 \text{ W}/(\text{m}^2\text{K})$$

$$U_{w,\text{installed}} = 0.85 \text{ W}/(\text{m}^2\text{K}) \leq 0.85 \text{ W}/(\text{m}^2\text{K})$$

This certificate was awarded based

$$f_{Rsi} = 0.25 \geq 0,70$$

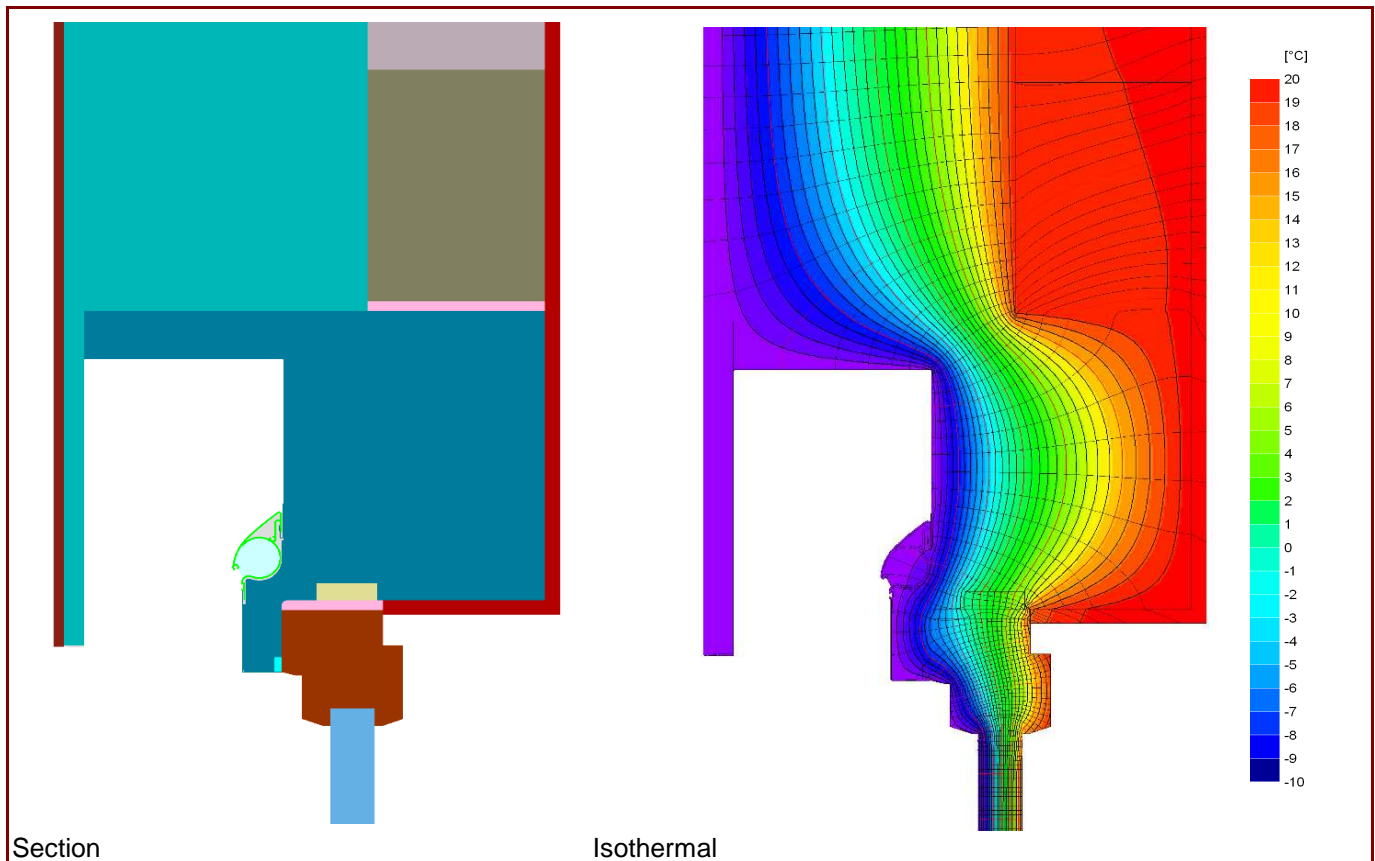
For further information, please see the data sheet



Data Sheet HELLA Sonnen- und Wetterschutztechnik GmbH, TRAV@frame passiv M_store-IS

Manufacturer HELLA Sonnen- und Wetterschutztechnik GmbH
 Abfaltersbach 125, 9913 Abfaltersbach, AUSTRIA
 Tel.: +43 4846 6555 0
 Email: office@hella.info, www.hella.info

Window standard Passive House frame



Description

Insulated window reveal system ($\lambda = 0,031 \text{ W}/(\text{mK})$) and external venetian blind including insect protection screen.

Thermal data for the window frame

	U_f -value [W/(m ² K)]	Width [mm]	Ψ_g [W/(mK)]	$f_{Rsi=0.25}$ [-]
spacer	SuperSpacer Tri-Seal*			0.72
bottom	0.80	120	0.026	
side/top	0.80	120	0.026	

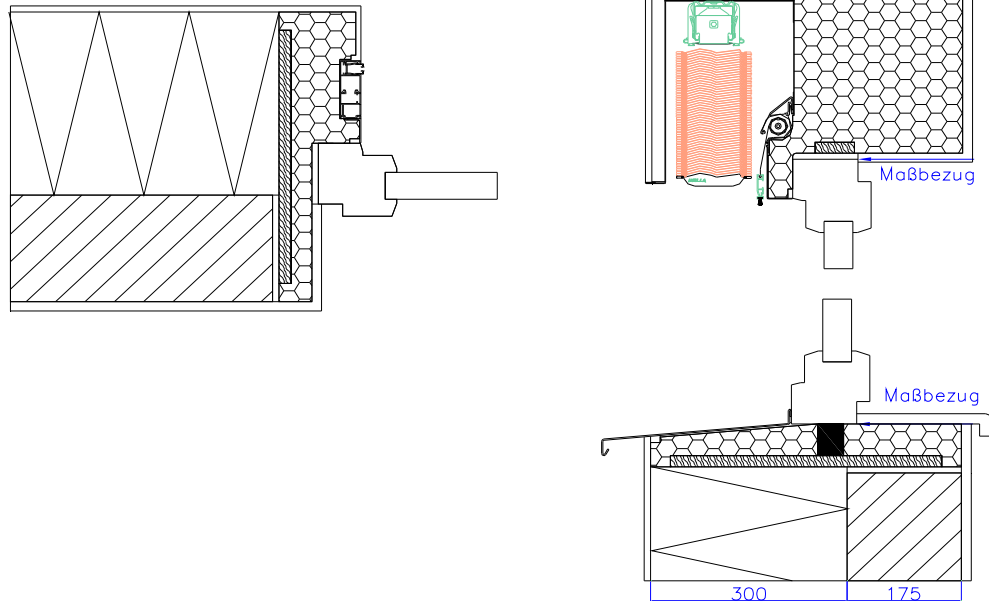
* Spacers of lower thermal quality lead to higher thermal losses and lower glass edge temperatures.

Data Sheet HELLA Sonnen- + Wetterschutztech. GmbH, TRAV®frame passiv M_store-IS

certified Installation

Massivwand WDVS (300 mm WLG 035)

with a standard Passive House frame



Installation based thermal bridge $\Psi_{\text{instal.}}$ in Passive House suitable wall

		EIFS (300 mm)
Position		
bottom	[W/(mK)]	0.030
top	[W/(mK)]	0.032
side	[W/(mK)]	0.008
$U_{W,\text{instal.}}$	[W/(m ² K)]	0.85

Explanatory notes

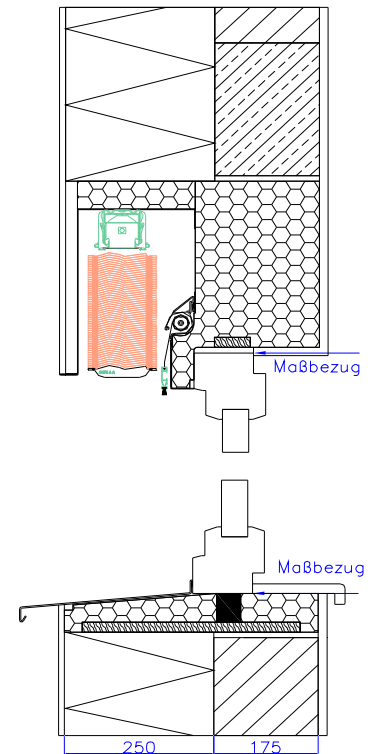
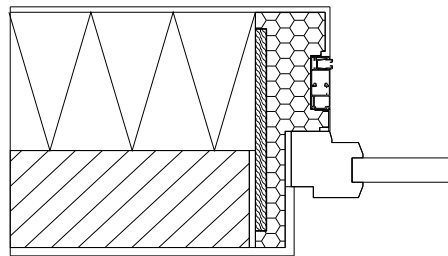
The window U-values were calculated based on a 1.23 m by 1.48 m window $U_g = 0.70 \text{ W}/(\text{m}^2\text{K})$. If better glazing is used, the window U-values decrease. The influence of a ceiling connection instead of a concrete lintel above the window is negligible as long as the EIFS is not weakened.

Dimensions refer to the outer edge of the window frame

additional installation situations

EIFS (250 mm WLG 035)

with a standard Passive House frame



$$\Psi_{\text{instal. bottom}} = 0.040 \text{ W/(mK)}$$

$$\Psi_{\text{instal. top}} = 0.039 \text{ W/(mK)}$$

$$\Psi_{\text{instal. side}} = 0.013 \text{ W/(mK)}$$

$$U_{W, \text{instal.}} = 0.87 \text{ W/(m}^2\text{K)} *$$

* not certified.

This installation detail does not fulfill the criteria. The heat losses are higher, if the window frame is situated towards the masonry rather than in the insulation layer. These losses have to be compensated for elsewhere.