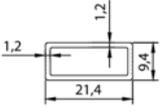
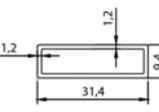
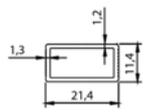
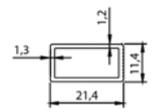
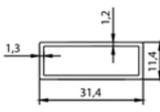
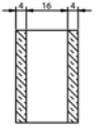
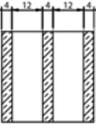


Thermix[®] muntin bars for insulating glass

Linear heat transfer coefficient $\Psi_{\text{muntin bar}}$ *

Ψ -values for Thermix [®] muntin bars in W/(m·K)	 Muntin bar 21.4 x 9.4 mm	 Muntin bar 31.4 x 9.4 mm	 Muntin bar 21.4 x 11.4 mm	 Muntin bar 25.4 x 11.4 mm	 Muntin bar 31.4 x 11.4 mm
 Double glazing $U_w = 1.1 \text{ W/(m}^2\text{·K)}$	0.016	0.021	0.021	0.024	0.028
 Triple glazing $U_w = 0.7 \text{ W/(m}^2\text{·K)}$	0.009	0.011	The use of muntin bars from the series 11.4 mm in 12 mm cavity is not recommended.		
 Triple glazing $U_w = 0.6 \text{ W/(m}^2\text{·K)}$	0.005	0.006	0.006	0.007	0.008

* All values except those in the first column originate from the test report 10-001281-PB01-K10-06-de-01 from ift Rosenheim. The values in the first column were determined by Ensinger GmbH analogously to the calculations by ift. In the triple-glazed systems, bars were only used in one cavity according to the recommendations of the BF Data Sheet 003 / 2008 – Change index 1 – May 2009 „Leitfaden zur Verwendung von Dreifach-Wärmedämmglas“.

The Ψ -values stated for Thermix[®] muntin bars were taken into consideration as part of the calculation for the thermal insulating value (U_w -value) of the window, using the formula shown below:

$$U_w = \frac{A_g \cdot U_g + A_f \cdot U_f + I_g \cdot \Psi_g + I_{\text{muntin bar}} \cdot \Psi_{\text{muntin bar}}}{A_g + A_f}$$

Remarks:

The Ψ -values shown for Thermix[®] muntin bars were calculated without cover strips. According to our experience, the ascertained values represent good approximations and are on the safe side for the materials wood and plastic; i.e. with the cover strips the values remain the same or are slightly lower. With cover strips made of aluminium, there may possibly be a slight increase in the specified values. In order to obtain exact values, we recommend that a calculation is made by a certified body.

These details are based on the current state of our knowledge. The properties and condition, the marketability and the suitability of the products for a specific use are neither legally binding nor guaranteed. We reserve the right to make technical changes.