

Helima stainless steel (0,2mm) spacer profiles

Manufacture:

Lingermann GmbH
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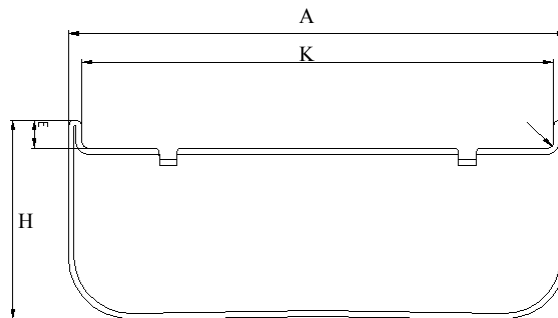
Material data:

When modelling the profiles following material data has been used:

Materials	λ in W/m ² K
Butyl	0.24*
Dessicant	0.13*
Polysulfide	0.40*
Stainless steel	17*

*Materials for which the manufacture has not specified exact material data, values from prEN ISO 10077-2 has been used:

Normal spacers:



Material thickness d of the stainless steel profiles is $d = 0,20$ mm.

Calculations on the spacers has been performed using 0.3 mm butyl rubber along both sides of the spacer and 3 mm polysulfide along the lower part of the spacer.

Profile id.	Dimensions (with butyl & polysulfide) $d \times h$ (mm)	A (mm)	K (mm)	H (mm)	Equivalent thermal conductivity [W/mK]		L value [W/mK]
					Old method	New method	
Helima 5.5	6.1×10.0	5.5	3.5	7	0.61	0.68	1.11
Helima 7.5	8.1×10.0	7.5	5.5	7	0.66	0.72	0.89
Helima 9.5	10.1×10.0	9.5	7.5	7	0.69	0.75	0.74
Helima 11.5	12.1×10.0	11.5	9.5	7	0.72	0.78	0.64
Helima 13.5	14.1×10.0	13.5	11.5	7	0.74	0.79	0.56
Helima 14.5	15.1×10.0	14.5	12.5	7	0,74	0.79	0.53
Helima 15.5	16.1×10.0	15.5	13.5	7	0.75	0.80	0.50
Helima 17.5	18.1×10.0	17.5	15.5	7	0.76	0.81	0.45
Helima 19.5	20.1×10.0	19.5	17.5	7	0.77	0.81	0.40

