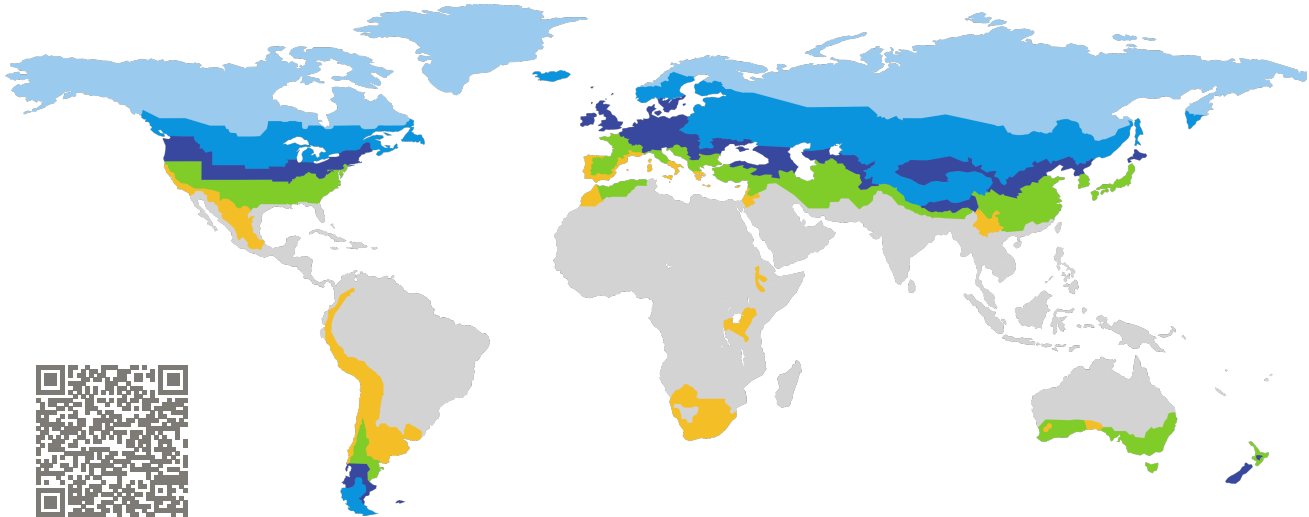


CERTIFICATE

Certified Passive House Component

Component-ID 0863sp01 valid until 31st December 2017

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Spacer for low-E-glazing**

Manufacturer: **Edgetech Europe GmbH,
Heinsberg,
Germany**

Product name: **Super Spacer TriSeal / T-Spacer Premium**

This certificate was awarded based on the following criteria:

Depending on the climatic region, the spacer prevents high surface temperatures, which can cause mould. At least 3 out of the 7 reference frames fulfilled the spacer hygiene criteria for the relevant climatic region.

Hygiene $f_{Rsi} \geq 0.80$

The specific resistance of the spacer's edges is greater than the climate-independent minimum requirement.

Efficiency $R_E = 5.42 \text{ m K/W} \geq 1.50 \text{ m K/W}$

Type
All-plastic
Height Box 2
6.30 mm
Thermal conductivity Box 2
0.15 W/(m K)

Passive House
efficiency class

phE

phD

phC

phB

phA

phA+

arctic climate



**CERTIFIED
COMPONENT**

Passive House Institute

Edgetech Europe GmbH

Gladbacher Str. 23, 52525 Heinsberg, Germany

☎ +49 2452 964 910 | ✉ info@edgetech-europe.com | 🌐 <http://www.quanex.com> |

Description

Triple-sealed, flexible spacer made from silicone foam with integrated drying agent and lateral adhesive.

Spacer height: 6.30 mm
Thermal conductivity: 0.15 W/(m K) (WA 17/1, ift Rosenheim)
Available spacer widths: 6.00–32.00 mm

Appropriate secondary seal	Specific edge resistance R_E	Efficiency class
Polysulfide	5.42 m K/W	phA
Polyurethane	6.80 m K/W	phA+
Silicone	5.82 m K/W	phA

Explanation




































Spacers are categorized into different efficiency classes based on the resistance of their edges R_E . A secondary polysulfide sealant is typically used, unless the spacer is not approved for polysulfide. A detailed report with the calculations is available from either the manufacturer or the Passive House Institute.

The Passive House Institute has defined global component requirements for seven climate regions. In principle, components that have been certified for climates with higher requirements can also be used in climates with lower requirements. This may be economically advantageous.

Use in PHPP:

If individually calculated values are not available then the thermal bridge loss coefficient specified in this document can be used. In this case, the appropriate reference frame must be selected and a 10% safety margin should be applied.

Further information regarding certification is available on www.passivehouse.com and www.passipedia.org.

Climate	Reference frames calculated with Polysulfide				
	Arctic ✓	Cool ✓	Cool temperate ✓	Warm temperate ✓	Warm ✓
Glass	Quadruple	Triple	Triple	Triple	Double
Glass package	4/12/3/12/3/12/4	6/18/2/18/6	6/16/6/16/6	6/16/6/16/6	6/16/6
Glass U-value	0.35 W/(m ² K)	0.52 W/(m ² K)	0.70 W/(m ² K)	0.70 W/(m ² K)	1.20 W/(m ² K)
Timber-aluminium integral frame					
U_f [W/(m ² K)]	0.48	0.62	0.73	0.87	1.03
Ψ_g [W/(m K)]	0.025	0.027	0.028	0.027	0.032
f_{Rsi} [-]	0.82 ✓	0.77 ✓	0.73 ✓	0.71 ✓	0.61 ✓
Timber-aluminium					
U_f [W/(m ² K)]	0.54	0.57	0.75	0.97	1.19
Ψ_g [W/(m K)]	0.026	0.028	0.029	0.029	0.035
f_{Rsi} [-]	0.78	0.75 ✓	0.71 ✓	0.68 ✓	0.56 ✓
Timber					
U_f [W/(m ² K)]	0.51	0.53	0.78	0.86	0.99
Ψ_g [W/(m K)]	0.024	0.026	0.027	0.027	0.042
f_{Rsi} [-]	0.80 ✓	0.78 ✓	0.75 ✓	0.74 ✓	0.64 ✓
Vinyl					
U_f [W/(m ² K)]	0.70	0.75	0.82	1.02	1.16
Ψ_g [W/(m K)]	0.027	0.290	0.030	0.032	0.037
f_{Rsi} [-]	0.80 ✓	0.77 ✓	0.75 ✓	0.74 ✓	0.62 ✓
Aluminium					
U_f [W/(m ² K)]	0.60	0.61	0.71	0.73	1.17
Ψ_g [W/(m K)]	0.027	0.030	0.032	0.032	0.039
f_{Rsi} [-]	0.81 ✓	0.80 ✓	0.78 ✓	0.77 ✓	0.64 ✓
Curtain wall timber					
U_f [W/(m ² K)]	0.60	0.65	0.66	0.71	1.11
Ψ_g [W/(m K)]	0.031	0.031	0.033	0.032	0.043
f_{Rsi} [-]	0.80 ✓	0.78 ✓	0.75 ✓	0.75 ✓	0.62 ✓
Curtain wall aluminium					
U_f [W/(m ² K)]	0.67	0.73	0.75	0.79	1.33
Ψ_g [W/(m K)]	0.035	0.035	0.038	0.038	0.057
f_{Rsi} [-]	0.87 ✓	0.85 ✓	0.83 ✓	0.83 ✓	0.72 ✓

