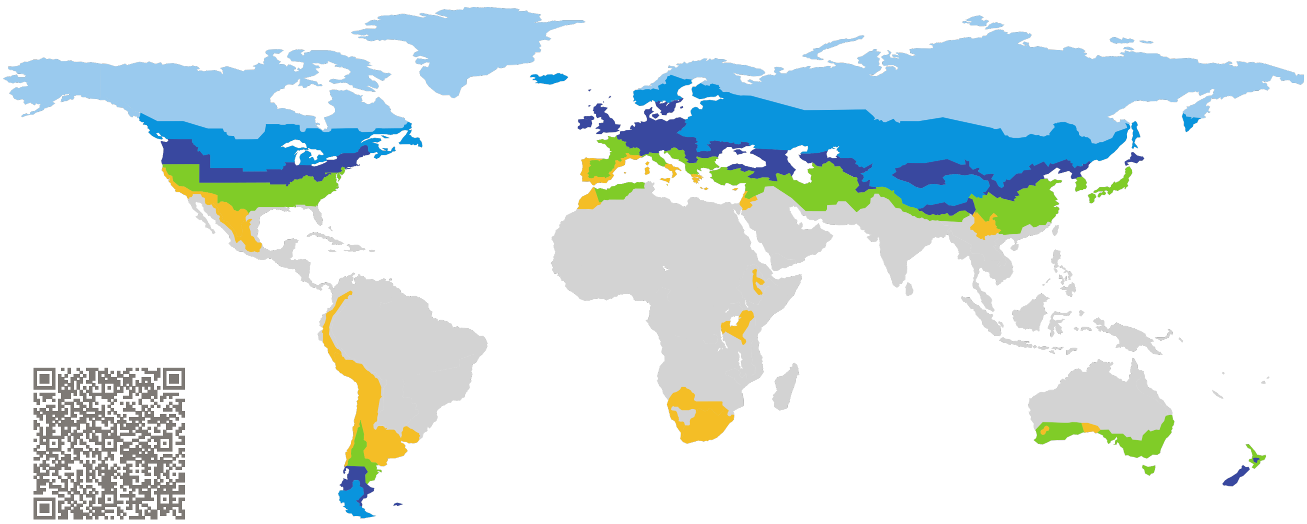
CERTIFICATE

Certified Passive House Component

Component-ID 1472sp01 valid until 31st December 2025

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® Premium**

Type
All-Plastic
Height Box 2
4.70 mm
Thermal conductivity Box 2
0.150 W/(m K)

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 $R_E = 6.50\,\mathrm{m\,K/W} \geq 1.50\,\mathrm{m\,K/W}$

Only valid with Hotmelt Butyl secondary seal.

arctic climate

phA+

CERTIFIED COMPONENT

Passive House Institute

Passive House efficiency class: phE | phD | phC | phB | phA | phA+

Edgetech Europe GmbH
Gladbacher Str. 23, 52525 Heinsberg, Germany
☎ +49 2452 964 910 | ✉ info@edgetech-europe.com | http://www.superspacer.com |

Description

Only valid with Hotmelt Butyl secondary seal.

Flexible spacer made of silicone foam with integrated desiccant and side adhesive. For panes, the longest side is less than or equal to 1.5 m, a 5 mm height of secondary seal has to be used for determining the thermal bridge coefficient of the glass edge, for larger elements 7 mm.

Spacer height:	4.70 mm
Thermal conductivity:	0.150 W/(m K) (WA-17/1 measured)
Available spacer widths:	5.00–25.00 mm

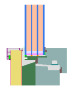
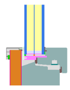
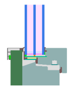
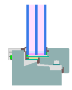
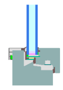
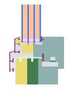
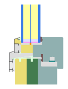
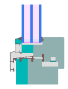
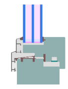
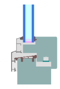
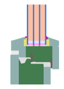
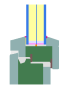
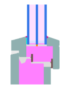
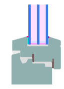
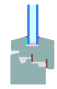
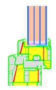
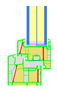
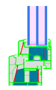
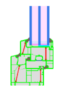
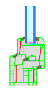
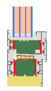
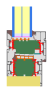
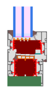
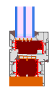
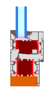
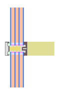
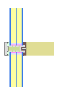
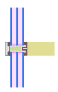
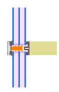
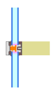
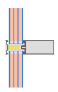
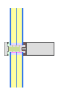
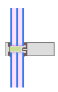
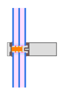
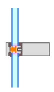
Appropriate secondary seal	Specific edge resistance R_E	Efficiency class
Hotmelt Butyl	6.50 m K/W	phA+
Butyl	6.50 m K/W	phA+

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 .

Reference frames calculated with Hotmelt Butyl					
Climate	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)]	0.024	0.026	0.027	0.026	0.031
f_{Rsi} [-]	0.82 ✓	0.78 ✓	0.73 ✓	0.72 ✓	0.64 ✓
Timber-aluminium					
U_f [W/(m^2 K)]	0.54	0.57	0.75	0.97	1.19
Ψ_g [W/(m K)]	0.025	0.026	0.027	0.027	0.033
f_{Rsi} [-]	0.79	0.76 ✓	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)]	0.022	0.024	0.025	0.026	0.031
f_{Rsi} [-]	0.80 ✓	0.79 ✓	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)]	0.026	0.027	0.029	0.030	0.036
f_{Rsi} [-]	0.80 ✓	0.78 ✓	0.75 ✓	0.74 ✓	0.63 ✓
Aluminium					
U_f [W/(m^2 K)]	0.60	0.61	0.71	0.73	1.17
Ψ_g [W/(m K)]	0.025	0.027	0.029	0.029	0.037
f_{Rsi} [-]	0.82 ✓	0.81 ✓	0.78 ✓	0.78 ✓	0.65 ✓
Curtain wall timber					
U_f [W/(m^2 K)]	0.60	0.65	0.66	0.71	1.11
Ψ_g [W/(m K)]	0.034	0.034	0.036	0.035	0.047
f_{Rsi} [-]	0.78	0.77 ✓	0.74 ✓	0.74 ✓	0.61 ✓
Curtain wall aluminium					
U_f [W/(m^2 K)]	0.67	0.73	0.73	0.79	1.33
Ψ_g [W/(m K)]	0.039	0.039	0.042	0.042	0.062
f_{Rsi} [-]	0.86 ✓	0.84 ✓	0.82 ✓	0.82 ✓	0.71 ✓