

CERTIFICATE

Certified Passive House Component

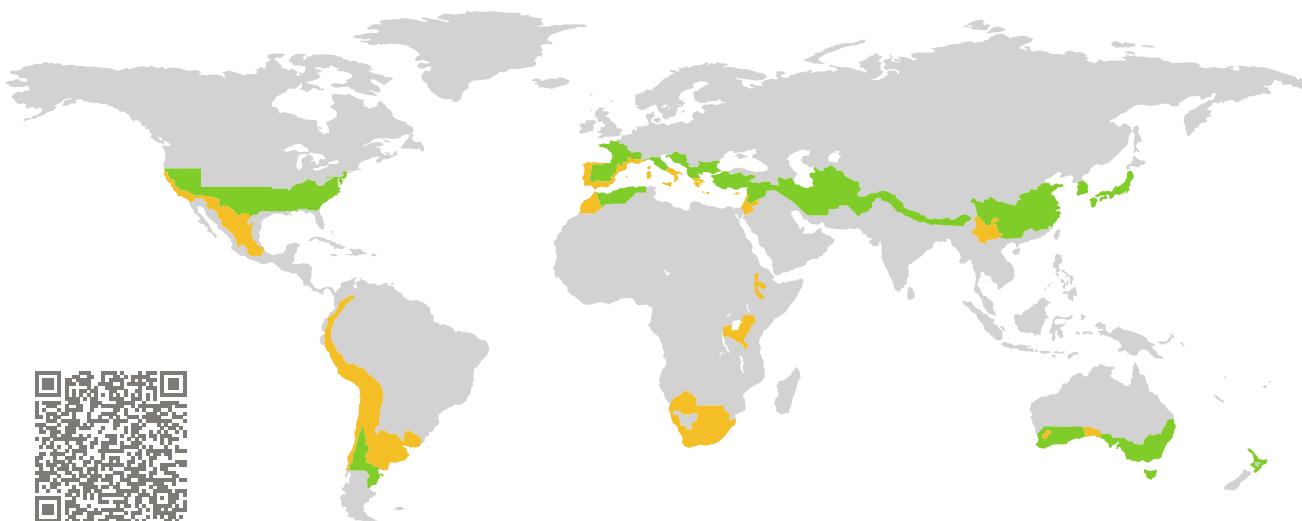
Component-ID 1503sp04 valid until 31st December 2026

Passive House Institute

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

Manufacturer: **ROLLTECH A/S,**
Hjorring,
Denmark

Product name: **CHROMATECH**

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 $f_{Rsi} \geq 0.65$

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

Efficiency $R_E = 1.90 \text{ m K/W} \geq 1.50 \text{ m K/W}$

Type
Stainless steel
Height Box 2
6.50 mm
Thermal conductivity Box 2
0.810 W/(m K)



Passive House
efficiency class

phE

phD

phC

phB

phA

phA⁺

ROLLTECH A/S

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Description

Spacer Bar in stainless steel (0.18 mm).

Spacer height: 6.50 mm

Thermal conductivity: 0.810 W/(m K) (WA-17/1 measured)

Available spacer widths: 8, 10, 12, 13, 14, 15, 16, 18, 20, 22 and 24 mm

Appropriate secondary seal	Specific edge resistance R_E	Efficiency class
Polysulfide	1.90 m K/W	phC
Polyurethane	1.90 m K/W	phC
Silicone	1.90 m K/W	phC

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)]	0.052	0.057	0.054	0.052	0.055
f_{Rsi} [-]	0.73	0.69	0.66	0.64	0.54
Timber-aluminium					
U_f [W/(m ² K)]	0.54	0.57	0.75	0.97	1.19
Ψ_g [W/(m K)]	0.057	0.062	0.060	0.058	0.062
f_{Rsi} [-]	0.68	0.65	0.66	0.64	0.47
Timber					
U_f [W/(m ² K)]	0.51	0.53	0.78	0.86	0.99
Ψ_g [W/(m K)]	0.048	0.056	0.053	0.052	0.054
f_{Rsi} [-]	0.71	0.69	0.67	0.67 ✓	0.57 ✓
Vinyl					
U_f [W/(m ² K)]	0.70	0.75	0.82	1.02	1.16
Ψ_g [W/(m K)]	0.057	0.061	0.060	0.061	0.063
f_{Rsi} [-]	0.71	0.68	0.66	0.66 ✓	0.55 ✓
Aluminium					
U_f [W/(m ² K)]	0.60	0.61	0.71	0.73	1.17
Ψ_g [W/(m K)]	0.063	0.072	0.071	0.071	0.072
f_{Rsi} [-]	0.71	0.71	0.69	0.69 ✓	0.57 ✓
Curtain wall timber					
U_f [W/(m ² K)]	0.60	0.65	0.66	0.71	1.11
Ψ_g [W/(m K)]	0.077	0.078	0.079	0.078	0.088
f_{Rsi} [-]	0.64	0.63	0.60	0.60	0.47
Curtain wall aluminium					
U_f [W/(m ² K)]	0.67	0.73	0.73	0.79	1.33
Ψ_g [W/(m K)]	0.092	0.094	0.098	0.097	0.122
f_{Rsi} [-]	0.73	0.72	0.70 ✓	0.70 ✓	0.58 ✓

