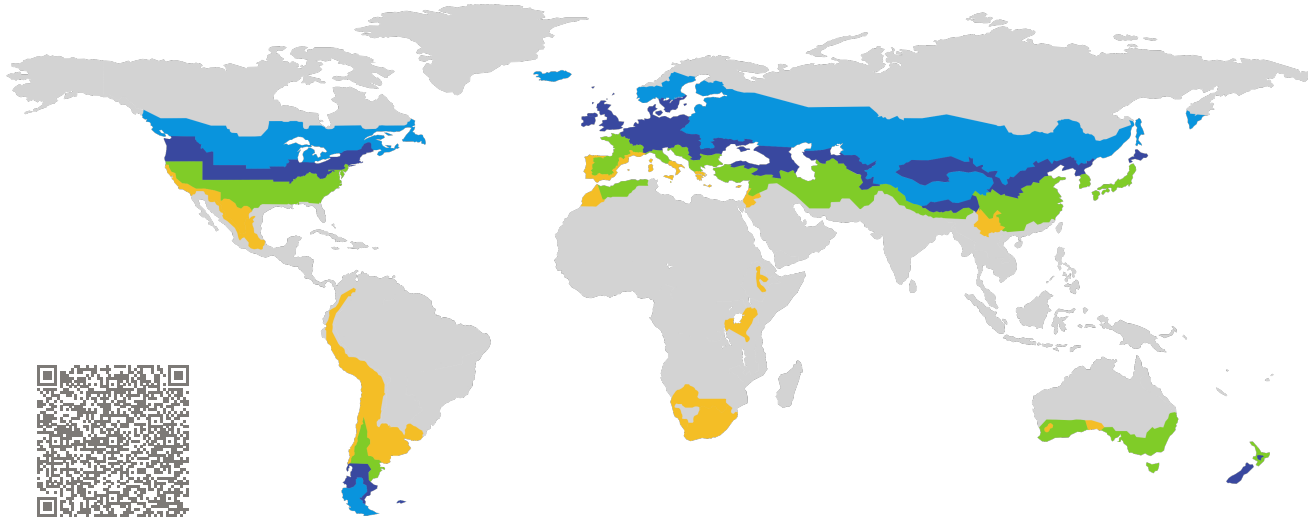


# CERTIFICATE

Certified Passive House Component

Component-ID 1530sp02 valid until 31st December 2021

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany



Category: **Edge-bond for low-E-glazing: Secondary seal**

Manufacturer: **Dow Silicones Belgium SPRL,  
Seneffe,  
Belgium**

Product name: **DOWSIL™ 3363 Insulating Glass Silicone Sealant**

### 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  $f_{Rsi} \geq 0.75$

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

Efficiency  $R_E = 5.40 \text{ m K/W} \geq 3.50 \text{ m K/W}$

Type
Silicone
Height of sealing
4 / 6 mm
Thermal conductivity of sealing
0.350 W/(m K)

# DOWSIL™

silicones by 

cold climate



**CERTIFIED COMPONENT**

Passive House Institute

Passive House  
efficiency class

phE

phD

phC

phB

phA

phA+

[www.passivehouse.com](http://www.passivehouse.com)

## Dow Silicones Belgium SPRL

Parc Industriel Zone C, Rue Jules Bordet, 7180 Seneffe, Belgium

☎ +32 64 88 85 93 | ✉ sebastien.dath@dow.com | 🌐 <http://www.dow.com> |

### Description

Secondary sealant based on silicone with increased strength for the edge of insulating glass units. Tested thickness of secondary seal: Windows: 4 mm, Curtain walls: 6 mm.

Thermal conductivity: 0.350 W/(m K)




































### Explanation

Sealants are categorized into different efficiency classes based on the resistance of their edges RE . For the certification of secondary sealants, the PHI-phA-reference spacer with a height of 7 mm and a thermal conductivity of 0.2 W/(mK) is used.

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.

Further information regarding certification is available on [www.passivehouse.com](http://www.passivehouse.com) and [www.passipedia.org](http://www.passipedia.org) .

Reference frames calculated with Silicone					
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 <sup>2</sup> K)	0.52 W/(m <sup>2</sup> K)	0.70 W/(m <sup>2</sup> K)	0.70 W/(m <sup>2</sup> K)	1.20 W/(m <sup>2</sup> K)
Timber-aluminium integral frame					
$U_f$ [W/(m <sup>2</sup> K)]	0.48	0.62	0.73	0.87	1.03
$\Psi_g$ [W/(m K)]	0.310	0.330	0.330	0.032	0.038
$f_{Rsi}$ [-]	0.79	0.75 ✓	0.71 ✓	0.70 ✓	0.60 ✓
Timber-aluminium					
$U_f$ [W/(m <sup>2</sup> K)]	0.54	0.57	0.75	0.97	1.19
$\Psi_g$ [W/(m K)]	0.033	0.035	0.035	0.035	0.041
$f_{Rsi}$ [-]	0.76	0.73	0.69	0.66 ✓	0.54
Timber					
$U_f$ [W/(m <sup>2</sup> K)]	0.51	0.53	0.78	0.86	0.99
$\Psi_g$ [W/(m K)]	0.029	0.032	0.033	0.032	0.038
$f_{Rsi}$ [-]	0.78	0.76 ✓	0.73 ✓	0.73 ✓	0.62 ✓
Vinyl					
$U_f$ [W/(m <sup>2</sup> K)]	0.70	0.75	0.82	1.02	1.16
$\Psi_g$ [W/(m K)]	0.034	0.036	0.037	0.038	0.042
$f_{Rsi}$ [-]	0.78	0.75 ✓	0.73 ✓	0.69 ✓	0.61 ✓
Aluminium					
$U_f$ [W/(m <sup>2</sup> K)]	0.60	0.61	0.71	0.73	1.17
$\Psi_g$ [W/(m K)]	0.035	0.038	0.040	0.039	0.047
$f_{Rsi}$ [-]	0.79	0.79 ✓	0.76 ✓	0.76 ✓	0.63 ✓
Curtain wall timber					
$U_f$ [W/(m <sup>2</sup> K)]	0.60	0.65	0.66	0.71	1.11
$\Psi_g$ [W/(m K)]	0.047	0.046	0.048	0.048	0.059
$f_{Rsi}$ [-]	0.74	0.73	0.70 ✓	0.70 ✓	0.56 ✓
Curtain wall aluminium					
$U_f$ [W/(m <sup>2</sup> K)]	0.67	0.73	0.75	0.79	1.33
$\Psi_g$ [W/(m K)]	0.054	0.054	0.057	0.057	0.080
$f_{Rsi}$ [-]	0.82 ✓	0.81 ✓	0.79 ✓	0.78 ✓	0.67 ✓