



Sommer Informatik GmbH





Add-On

„product-specific shear module“



Description of the functions:

In GlasGlobal now the shear module for composite layers can be considered depending on the load type.

Therefore the activation of the Add-On „product-specific shear module“ is necessary.

→ **Benefit**: it can be calculated with the real shear modules of the used layers; there is no need to use default values



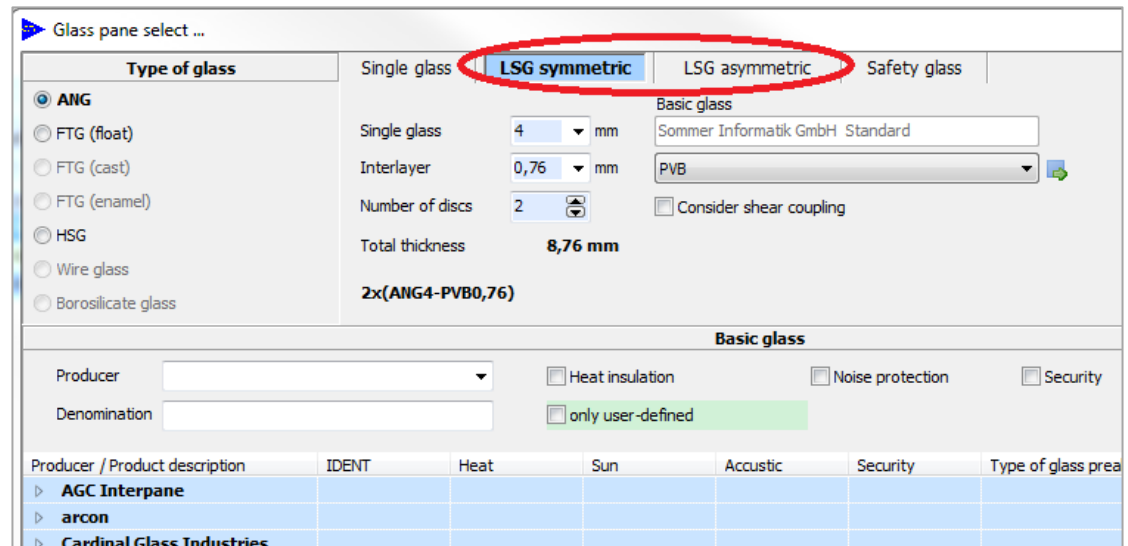
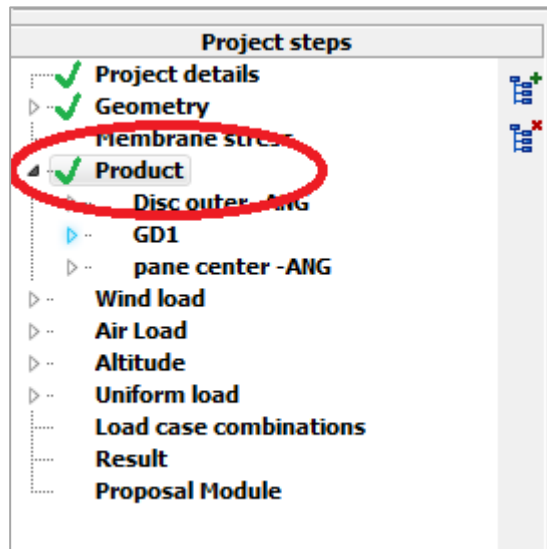
Start a project

The functionality of considering the shear module is available under „GlasGlobal standard“ and „GlasGlobal fall protection“

The screenshot displays the SommerGlobal software interface. The top navigation bar includes 'Update', 'Help', and 'Info' icons. The main content area is divided into three columns: 'Project:', 'Position:', and 'Denomination:'. The 'Project:' column lists several options, with 'GlasGlobal Standard Statics (DIN 18008-1,-2)' and 'GlasGlobal Fall protection Statics (DIN 18008-4)' highlighted with red boxes. The 'Position:' column lists various standards like 'WinSLT Standard Radiation (EN 410, EN 673)'. The 'Denomination:' column lists system components like 'Projects', 'Manufacturer/Products', 'Settings', 'User', 'Database connection', 'Init password', 'Language', and 'Quit'. On the right side, the 'Sommer Informatik GmbH' contact information is displayed, including the address, phone, fax, website, and email. At the bottom right, it states 'Registered for Sommer Informatik' and provides the company address again.


define a glass pane

After the project details and geometry data have been entered, a glass pane can be selected under the tab 'Product'



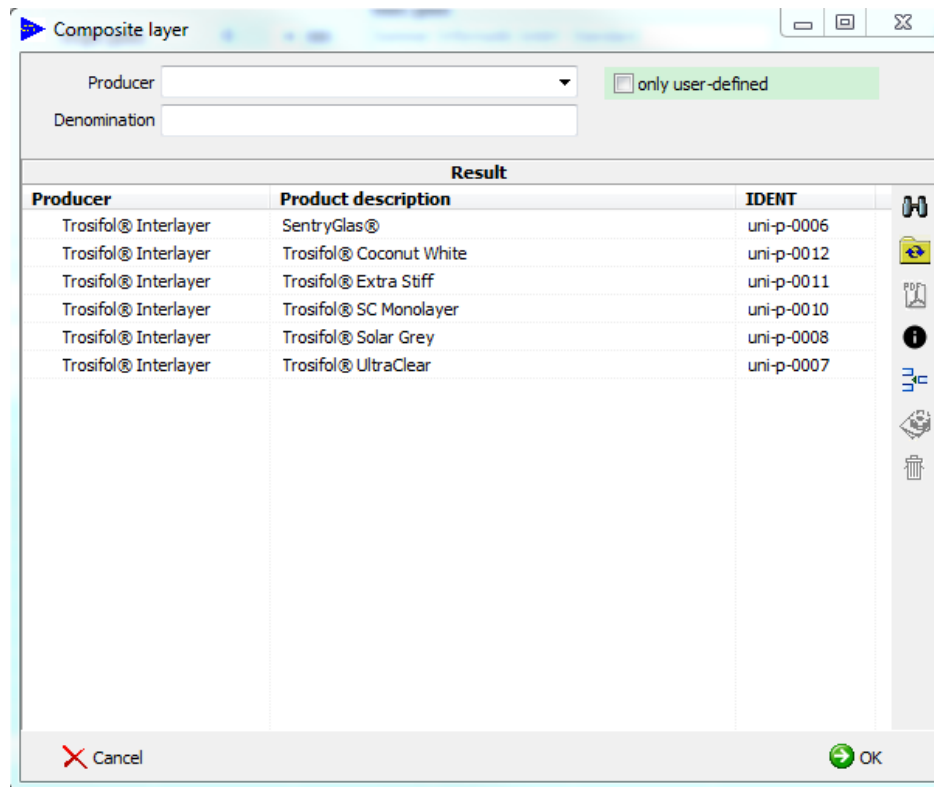
define a glass pane

A composite layer can now be selected under the tabs LSG symmetric or LSG asymmetric

		LSG symmetric	LSG asymmetric	Safety glass			
Single glass	4	mm	Basic glass	Sommer Informatik GmbH Standard		dw* (mm)	ds* (mm)
Interlayer	0,76	mm	PVB		full bond	8,00	8,00
Number of discs	2		<input type="checkbox"/> Consider shear coupling		without lamination	5,04	5,66
Total thickness	8,76 mm						
2x(ANG4-PVB0,76)							

define a glass pane

You can search for a specific product, eg. SentryGlas®



define a glass pane

As soon as a layer has been selected, the checkbox “consider shear coupling” is set automatically.

Single glass		LSG symmetric	LSG asymmetric		
Single glass	4 mm	Basic glass	Sommer Informatik GmbH Standard	dw* (mm)	ds* (mm)
Interlayer	0,76 mm		SentryGlas®	full bond	8,00 8,00
Number of discs	2	<input checked="" type="checkbox"/> Consider shear coupling		without lamination	5,04 5,66
Total thickness	8,76 mm		Horizontal		
2x(ANG4-PVB0,76)					

horizontally heated area

→ For several existing “shear modulus sets“, the selection is done here

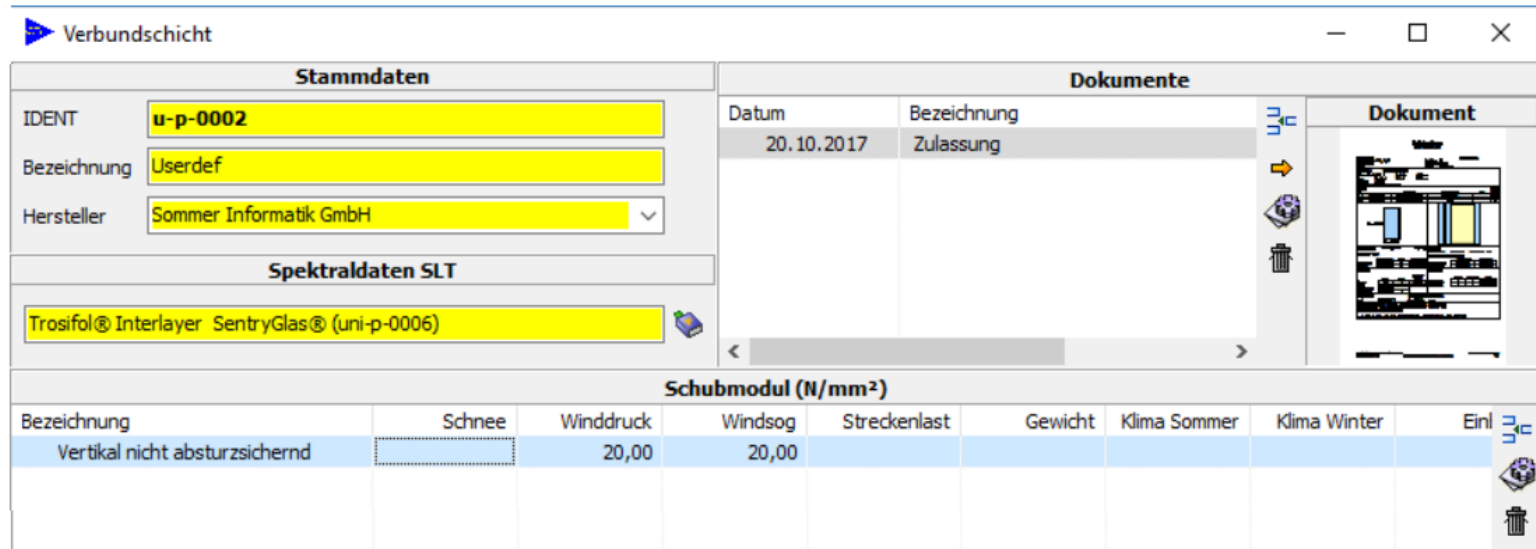
→ Each product may have different “thrust module sets“. These arise e.g. from the construction supervisory approval.

Überkopf- bereich	Lastfall Schnee (beheizte Fläche) ¹⁵	0,58
	Lastfall Schnee (unbeheizte Fläche) ¹⁶	100

Custom composite layer

You can also create custom composite layers.

For this, the master data as well as the spectral data of the product must be specified.



The screenshot shows the 'Verbundschicht' software interface. It is divided into several sections:

- Stammdaten (Master Data):** Includes fields for IDENT (u-p-0002), Bezeichnung (Userdef), and Hersteller (Sommer Informatik GmbH).
- Spektraldaten SLT (Spectral Data):** Includes a field for Trosifol® Interlayer SentryGlas® (uni-p-0006).
- Dokumente (Documents):** A table with columns for Datum (20.10.2017) and Bezeichnung (Zulassung).
- Schubmodul (N/mm²) Table:** A table with columns for Bezeichnung, Schnee, Winddruck, Windsog, Streckenlast, Gewicht, Klima Sommer, Klima Winter, and Einl. The first row is 'Vertikal nicht absturzstabil' with values 20,00 for Winddruck and 20,00 for Windsog.



Print

If the shear modulus is taken into account, the load cases for "shear modulus" and "full composite" are determined. In contrast to the previous version, the load case "without bond" does not exist, because the calculation of shear modulus is not required here. The thrust modules used and the resulting effective thickness and deflection thicknesses are output on the proof following the load cases:

<u>Shear coupling (N/mm²)</u>	<u>Effective thickness</u>	<u>Deflection (mm)</u>	<u>Effective thickness</u>	<u>Stress (mm)</u>			
	Snow	Wind	Uniform load	Weight	Air Load	Installation	
LSG (Float) 2 x 4,00 mm (Trosifol® Extra Stiff)	0,50 6,54 7,20	0 5,04 5,66	0 5,04 5,66	0 5,04 5,66	0 5,04 5,66	0 5,04 5,66	0 5,04 5,66
ANG 4,00 mm	0 4,00 4,00	0 4,00 4,00	0 4,00 4,00	0 4,00 4,00	0 4,00 4,00	0 4,00 4,00	0 4,00 4,00



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Bauphysik Highlights der Sommer Informatik GmbH:

- WinIso® – Berechnung von zweidimensionalen Wärmeströmen
- WinSLT – Professionelle Software für Lichttransmission
- GlasGlobal – Glasbemessung nach DIN 18008
- WinIso 3D – Berechnung von dreidimensionalen Wärmeströmen