

leading glass. **sedak**



**sedak company presentation**  
products

A photograph of a modern glass building with a curved facade. A glass bridge with a metal truss structure is visible on the left side of the building. The sky is a clear blue. A semi-transparent blue rectangle is overlaid on the right side of the image, containing white text.

**sedak insulating glass**  
big and economical up to  
3.51m x 20m

# sedak insulating glass

## overview

| product                | finishing                                |
|------------------------|--|
| <b>sedak isotherm®</b> | low-e coating                            |
| <b>sedak isomax®</b>   | vacuum insulation panels in the cavity   |
| <b>sedak isosun®</b>   | combined coating (solar control / low-e) |
| <b>sedak isosound®</b> | with special sound insulating interlayer |

## sedak insulating glass

### overview

| product                 | finishing   |
|-------------------------|---|
| <b>sedak isosecure®</b> | laminated safety glass, suitability for foot traffic, falling and fall-through resistance, resistance to thrown objects, resistance to manual attack, bullet resistance, blast resistance, hurricane resistance |
| <b>sedak isocolor®</b>  | colored, covered with colored sheeting or full-coverage printing with the sedak roller-coater   |
| <b>sedak isodecor®</b>  | printed with ceramic inks or decorative coatings  |
| <b>sedak isopure®</b>   | Insulating glass with transparent glass spacer for more transparency on insulating glass facades  |

## sedak isotherm<sup>®</sup>

### low-e insulating glass

#### **low-e insulating glass for energy-efficient construction**

- heat-strengthened or fully tempered
- insulating glass; 2 to 4 layers, multiple on request
- low-e coating on side 3
- available up to 3.51m x 20m



## sedak isotherm®

### coatings

| type of coating                                  | neutral E                  | neutral E                  | 3 E                        |
|--|----------------------------|----------------------------|----------------------------|
| product name                                     | sedak iso neutral E double | sedak iso neutral E double | sedak iso neutral E triple |
| glass makeup<br>(ext/cavity/mid/cavity/int) (mm) | 4/16/:4                    | 6/16/:6                    | 6/12/6/12/:6               |
| nominal Ug-value EN 673                          | 1.1                        | 1.1                        | 1.0                        |
| g-value (%)                                      | 63                         | 61                         | 54                         |
| light transmittance (%)                          | 80                         | 78                         | 70                         |

## sedak isotherm®

### coatings

| type of coating                                | neutral E | neutral E | 3 E       |
|--|-----------|-----------|-----------|
| general color rendering index for view through | 97        | 96        | 94        |
| thickness (mm / inch)                          | 24 / 0.95 | 28 / 1.06 | 36 / 1.42 |
| weight (kg / lb)                               | 20 / 44   | 30 / 60   | 30 / 60   |

## sedak isomax<sup>®</sup>

low-e insulating glass with VIPs

### U<sub>g</sub> up to 0.23 W/m<sup>2</sup>K

maximum thermal insulation

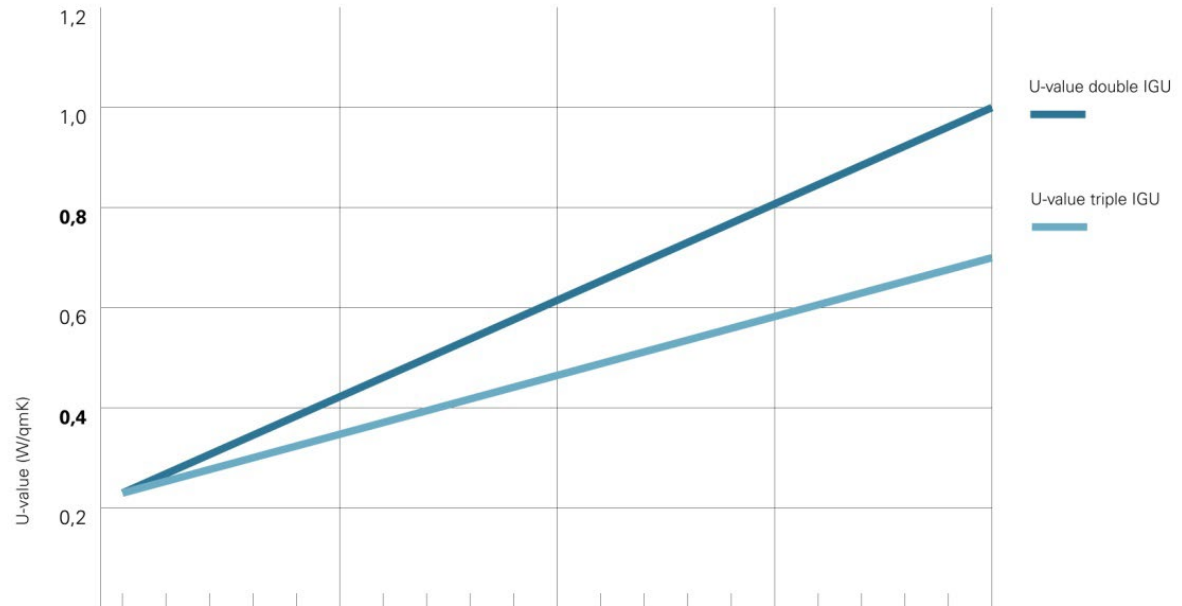
- VIPs with quality control system
- up to 3.51m x 20m

marvellous space saver

- as slim as common IGUs
- fits all standard façade systems

canvas for architects

- transparent / opaque areas flexibly combinable
- ceramic-ink digital printing (1024dpi)

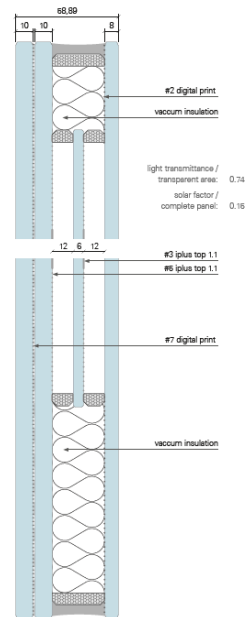




sedak isomax®

vacuum insulation panel

- The core material is vacuum-sealed into a high gas barrier film.
- The gas pressure and therefore the functionality of the insulation can be checked anytime by a patented quality control system.

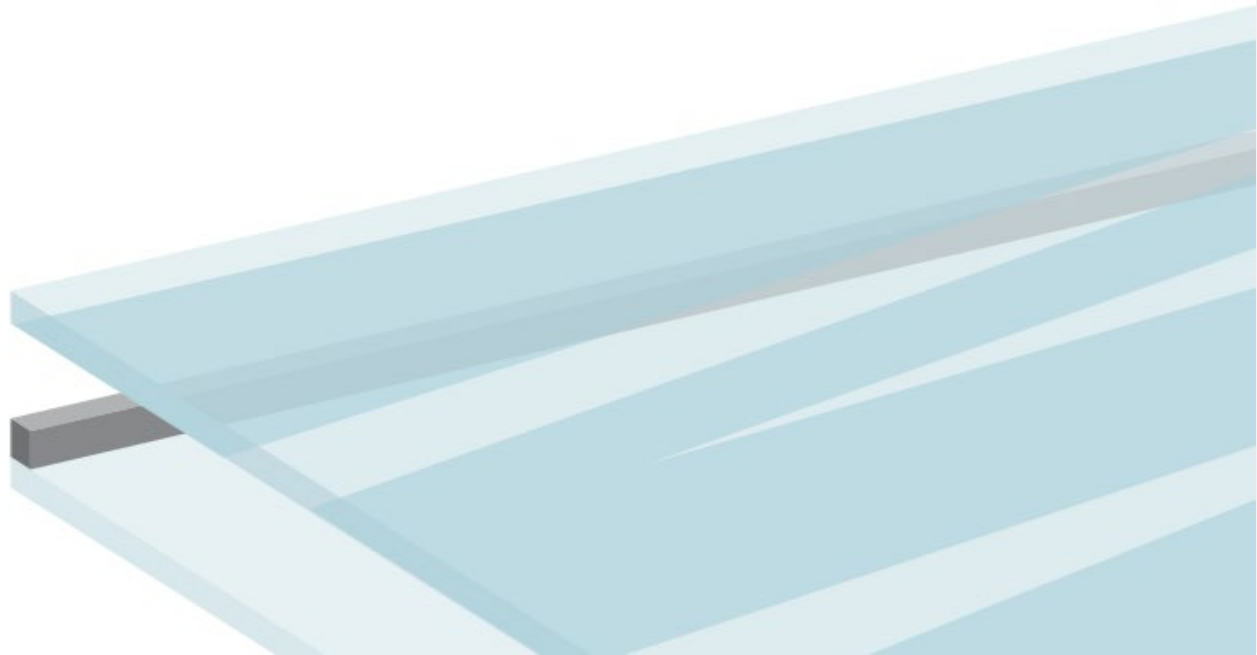


## sedak isosun<sup>®</sup>

solar control insulating glass

**protects against glare and solar heat gains due to its highly efficient combination coating**

- heat-strengthened or fully tempered
- insulating glass; 2 to 4 layers, multiple on request
- combined coating (solar control/low-e) on side 2
- available up to 3.51m x 20m



## sedak isosun® shine

efficient combined coating

| type of coating                               | shine 40/22              | shine 40/22              |
|---|--------------------------|--------------------------|
| product name                                  | sedak isosun shine 40/22 | sedak isosun shine 40/22 |
| glass makeup (ext/cavity/mid/cavity/int) (mm) | 6:/16/4                  | 8:/16/6                  |
| nominal Ug-value, EN 673                      | 1.1                      | 1.1                      |
| g-value (%)                                   | 22                       | 22                       |
| light transmittance                           | 40                       | 40                       |
| LR-value ext.                                 | 16                       | 16                       |
| LR-value int.                                 | 12                       | 12                       |

## sedak isosun® shine

efficient combined coating

| type of coating                              | shine 40/22 | shine 40/22 |
|--|-------------|-------------|
| absorption ext.                              | 53          | 55          |
| absorption int.                              | 0           | 1           |
| selectivity                                  | 1.81        | 1.81        |
| shading Coefficient (g-value EN 410/0.80)    | 0.28        | 0.28        |
| shading Coefficient (Solar Factor NFRC/0.87) | 0.25        | 0.25        |
| shading Coefficient (Solar Factor NFRC/0.80) | 0.24        | 0.24        |
| thickness (mm / inch)                        | 26 / 1.02   | 30 / 1.18   |
| weight (kg / lb)                             | 25 / 55     | 35 / 77     |

## sedak isosun® neutral

efficient combined coating

| type of coating          | neutral 50/27              | neutral 50/27              | neutral 69/37              | neutral 69/37              | neutral 70/39              | neutral 70/39              | neutral 73/42              | neutral 73/42              |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| product name             | sedak isosun neutral 50/27 | sedak isosun neutral 50/27 | sedak isosun neutral 69/37 | sedak isosun neutral 69/37 | sedak isosun neutral 70/39 | sedak isosun neutral 70/39 | sedak isosun neutral 73/42 | sedak isosun neutral 73/42 |
| glass makeup             | 6:16/4                     | 8:16/6                     | 6:16/4                     | 8:16/6                     | 6:16/4                     | 8:16/6                     | 6:16/4                     | 8:16/6                     |
| nominal Ug-value, EN 673 | 1.1                        | 1.1                        | 1.0                        | 1                          | 1                          | 1                          | 1.1                        | 1.1                        |
| g-value (%)              | 27                         | 27                         | 37                         | 36                         | 39                         | 38                         | 42                         | 41                         |
| light transmittance      | 50                         | 50                         | 69                         | 68                         | 70                         | 69                         | 73                         | 72                         |

## sedak isosun® neutral

efficient combined coating

| type of coating   | neutral 50/27 | neutral 50/27 | neutral 69/37 | neutral 69/37 | neutral 70/39 | neutral 70/39 | neutral 73/42 | neutral 73/42 |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>LR-value ext.</b>                                      | 9             | 9             | 12            | 12            | 12            | 12            | 10            | 10            |
| <b>LR-value int.</b>                                      | 11            | 11            | 13            | 13            | 13            | 13            | 12            | 11            |
| <b>absorption ext.</b>                                    | 48            | 50            | 31            | 35            | 33            | 36            | 32            | 36            |
| <b>absorption int.</b>                                    | 0             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| <b>selectivity</b>  | 1.85          | 1.85          | 1.86          | 1.88          | 1.79          | 1.81          | 1.74          | 1.73          |
| <b>shading<br/>coefficient (g-<br/>value EN 410/0.80)</b> | 0.34          | 0.34          | 0.46          | 0.45          | 0.49          | 0.48          | 0.53          | 0.51          |

# sedak isosun<sup>®</sup> neutral

efficient combined coating

| type of coating                              | neutral 50/27 | neutral 50/27 | neutral 69/37 | neutral 69/37 | neutral 70/39 | neutral 70/39 | neutral 73/42 | neutral 73/42 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| shading coefficient (solar factor NFRC/0.87) | 0.31          | 0.31          | 0.43          | 0.41          | 0.45          | 0.44          | 0.48          | 0.47          |
| shading coefficient (solar factor NFRC/0.80) | 0.29          | 0.29          | 0.39          | 0.38          | 0.41          | 0.4           | 0.45          | 0.44          |
| thickness (mm / inch)                        | 26 / 1.02     | 30 / 1.18     | 26 / 1.02     | 30 / 1.18     | 26 / 1.02     | 30 / 1.18     | 26 / 1.02     | 30 / 1.18     |
| weight (kg / lb)                             | 25 / 55       | 35 / 77       | 25 / 55       | 35 / 77       | 25 / 55       | 35 / 77       | 25 / 55       | 35 / 77       |

## sedak isosun<sup>®</sup> ultraselect

efficient combined coating

| type of coating                               | ultraselect 62/29              |
|---|--------------------------------|
| product name                                  | sedak isosun ultraselect 62/29 |
| glass makeup (ext/cavity/mid/cavity/int) (mm) | 6:/16/4                        |
| nominal Ug-value, EN 673                      | 1.0                            |
| g-value (%)                                   | 29                             |
| light transmittance                           | 62                             |



## sedak isosun<sup>®</sup> ultraselect

efficient combined coating

| type of coating                           | ultraselect 62/29 |
|---|-------------------|
| LR-value ext.                             | 10                |
| LR-value int.                             | 11                |
| shading coefficient (g-Value EN 410/0.80) | 0.36              |
| thickness (mm / inch)                     | 26 / 1.02         |
| weight (kg / lb)                          | 25 / 55           |

## sedak isosun® bright

efficient combined coating

| type of coating                               | bright              | bright              |
|---|---------------------|---------------------|
| product name                                  | sedak isosun bright | sedak isosun bright |
| glass makeup (ext/cavity/mid/cavity/int) (mm) | 6:/16/4             | 8:/16/6             |
| Ug-value EN 673                               | 2.6                 | 2.6                 |
| g-value (%)                                   | 60                  | 57                  |
| light transmittance                           | 59                  | 58                  |
| LR-value ext.                                 | 36                  | 35                  |
| LR-value int.                                 | 38                  | 37                  |

## sedak isosun<sup>®</sup> bright

efficient combined coating

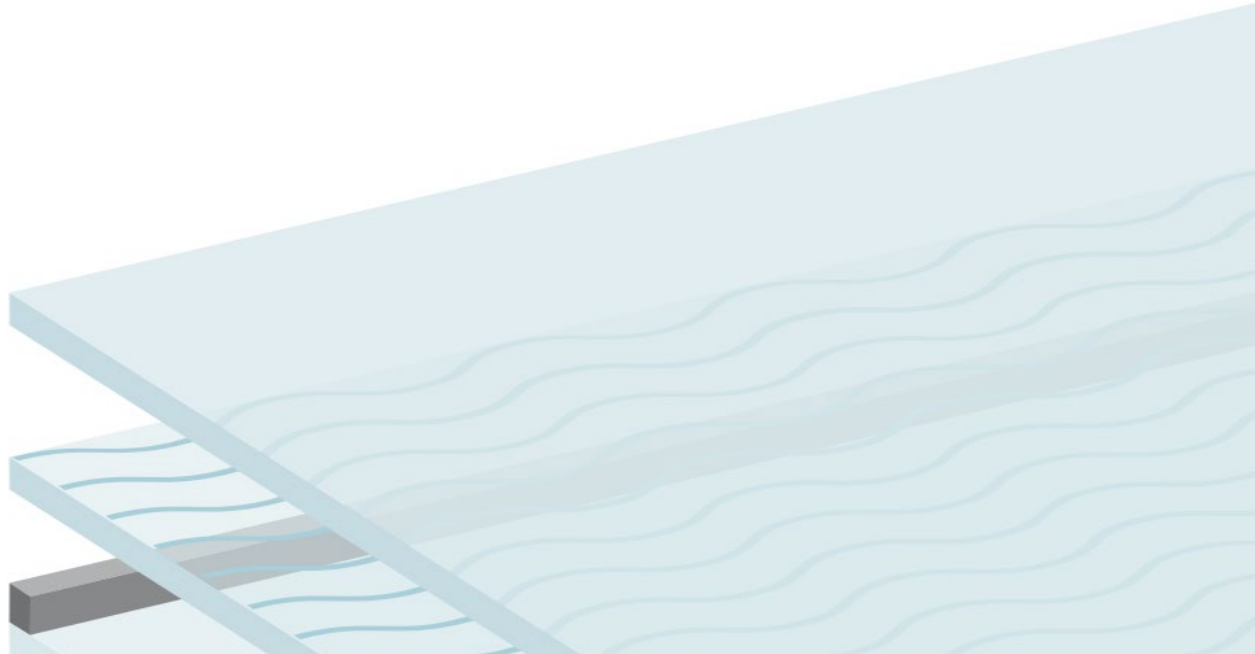
|   |           |           |
|---|-----------|-----------|
| <b>absorption ext.</b>                              | 15        | 19        |
| <b>absorption int.</b>                              | 2         | 3         |
| <b>selectivity</b>                                  | 0.98      | 1.01      |
| <b>shading coefficient (g-value EN 410/0.80)</b>    | 0.75      | 0.71      |
| <b>shading coefficient (solar factor NFRC/0.87)</b> | 0.57      | 0.57      |
| <b>shading coefficient (solar factor NFRC/0.80)</b> | 0.56      | 0.55      |
| <b>thickness (mm / inch)</b>                        | 26 / 1.02 | 30 / 1.18 |
| <b>weight (kg / lb)</b>                             | 25 / 55   | 35 / 77   |

## sedak isosound<sup>®</sup>

sound insulation glass

### **sound insulation glass with a special PVB interlayer**

- heat-strengthened or fully tempered
- insulating glass; 2 to 4 layers, multiple on request
- with sound insulating interlayer
- available up to 3.51m x 20m



## sedak isosound®

sound insulation interlayer

| product name                                  | sedak isosound | sedak isosound |
|---|----------------|----------------|
| glass makeup (ext/cavity/mid/cavity/int) (mm) | 6/16/4         | 8/16/4         |
| Rw (dB)                                       | 36             | 37             |
| C (dB)  | -2             | -2             |
| Ctr (dB)                                      | -5             | -5             |
| C100-5000 (dB)                                | -1             | -1             |
| CTR 100-5000 (dB)                             | -5             | -5             |

## sedak isosecure<sup>®</sup>

laminated safety glass

**the laminated safety glass protects  
against accidents, vandalism, and break-  
ins**

- suitability for foot traffic
- falling and fall-through resistance
- resistance to thrown objects
- resistance to manual attack
- bullet resistance
- blast resistance
- hurricane resistance

heat-strengthened or fully tempered +  
laminated insulating glass; 2 to 4 layers,  
multiple on request in seven safety qualities  
available up to 3.51m x 20m

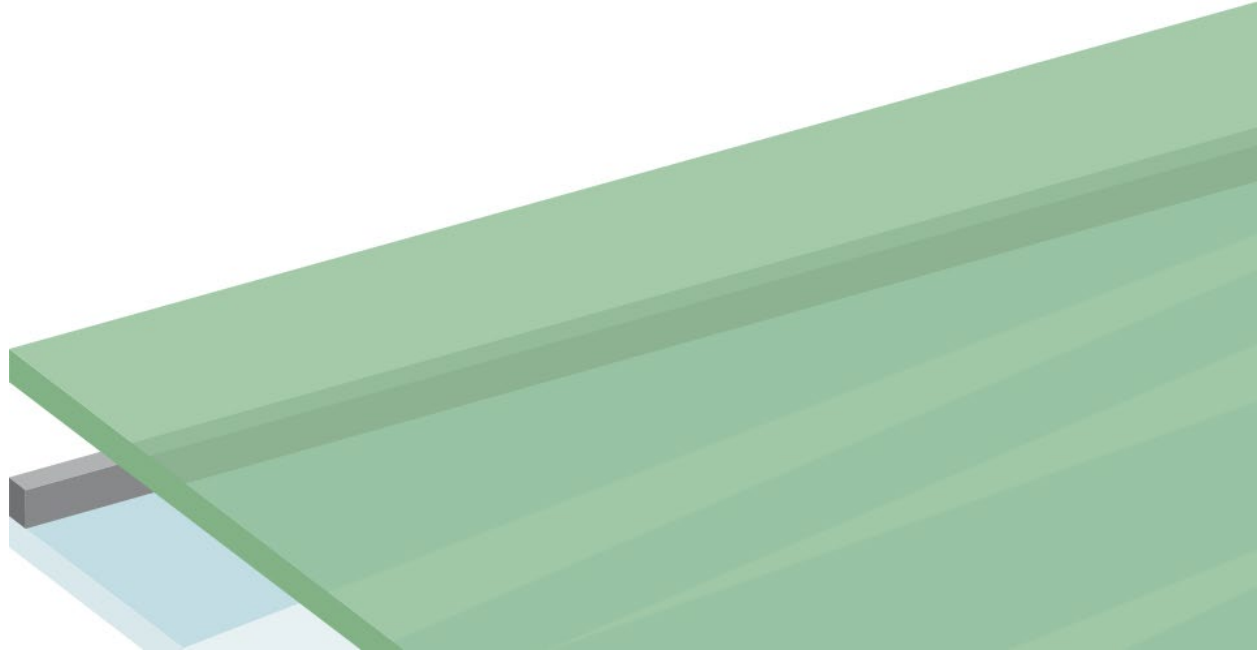


## sedak isocolor®

colored insulating glass

**colored insulating glass made of body-tinted insulating glass, covered with colored sheeting or printed fully covered**

- heat-strengthened or fully tempered
- insulating glass; 2 to 4 layers, multiple on request
- available up to 3.51m x 20m

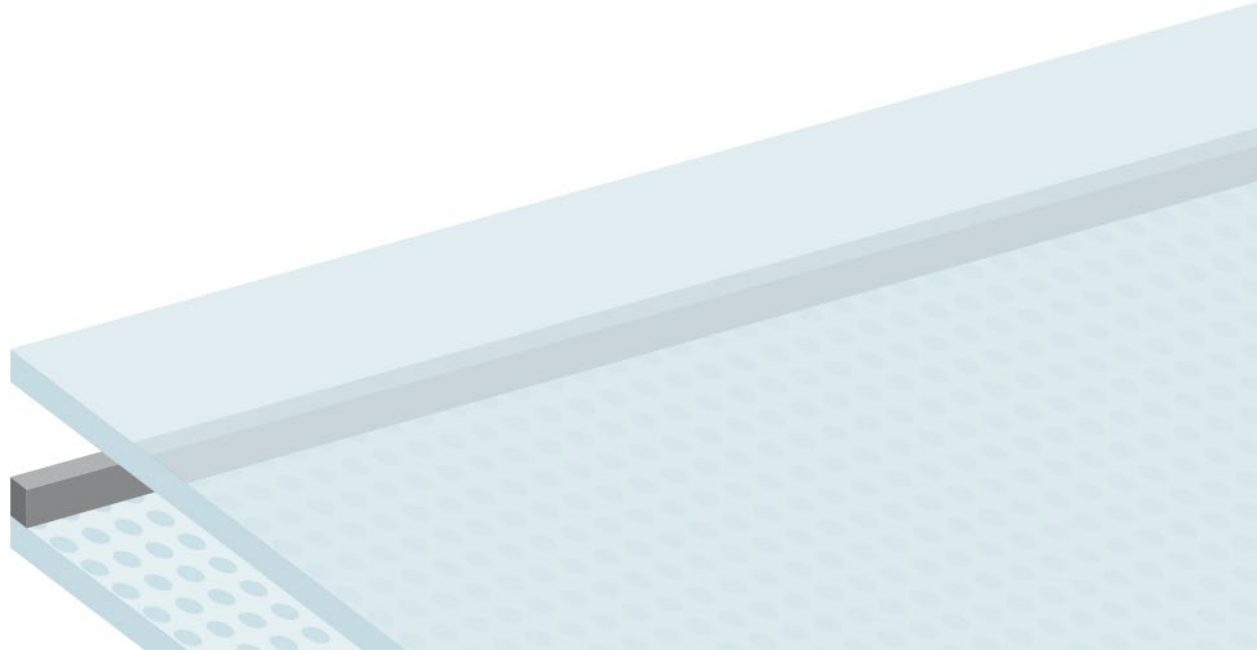


## sedak isodecor®

partially colored insulating glass

### **decorative coatings or digitally printed insulating glass**

- heat-strengthened or fully tempered
- insulating glass; 2 to 4 layers, multiple on request
- partially coated glass or ceramic-ink digitally printed glass
- available up to 3.51m x 20m





## sedak isopure®

insulating glass with transparent spacer

**Insulating glass with transparent spacer,  
which makes the usual butt joints seem  
to disappear**

- more transparency for all-glass façades
- butt joints seem to disappear
- up-to-date Ug-values
- can be combined with many standard coatings
- heat-strengthened or fully tempered
- insulating glass, 2 to 3 layers
- available up to 3.51m x 20m



leading glass. **sedak**



**sedak safety glass**  
big and economical up to  
3.51m x 20m

## sedak safety glass

### overview

| product                 | finishing   |
|-------------------------|---|
| <b>sedak TVG</b>        | heat-strengthened   |
| <b>sedak ESG</b>        | fully tempered in the furnace   |
| <b>sedak VSG</b>        | suitability for foot traffic, falling and fall-through resistance, resistance to thrown objects, resistance to manual attack, bullet resistance, blast resistance, hurricane resistance |
| <b>sedak secusun®</b>   | solar control coating   |
| <b>sedak secusound®</b> | special PVB interlayer  |

## sedak safety glass

### overview

| product                   | finishing   |
|---------------------------|---|
| <b>sedak secuprotect®</b> | laminated safety glass, suitability for foot traffic, falling and fall-through resistance, resistance to thrown objects, resistance to manual attack, bullet resistance, blast resistance, hurricane resistance |
| <b>sedak secucolor®</b>   | colored, covered with colored sheeting or full-coverage printing with the sedak roller-coater   |
| <b>sedak secudecor®</b>   | partial decorative coating or ceramic digital printing  |
| <b>sedak clear-edge®</b>  | Transparent edge protection, with functional and aesthetically pleasing   |
| <b>Glascobond®</b>        | Kuraray™ SentryGlas® interlayer   |
| <b>GLY-MarineCobond®</b>  | SentryGlas® interlayer for nautical applications  |

## sedak VSG

laminated safety glass

**laminated safety glass with reliably bonded fragments of glass for a calculable residual loadbearing capacity and residual stability**

Laminated safety glass reduces the risk of injury upon breakage because the fragments of glass are reliably bonded together. The glass also has a calculable residual loadbearing capacity and residual stability therefore guaranteeing the necessary level of safety.

Laminated safety glass can be produced from basic, heat-strengthened, and fully tempered glass.



## sedak VSG

laminated safety glass

**laminated safety glass with reliably bonded fragments of glass for a calculable residual loadbearing capacity and residual stability**

- safety glass; 2 to 5 layers, multiple on request
- in seven safety qualities
- interlayer: PVB, SG, TPU, EVA, custom-made laminates
- up to 3.51m x 20m



## sedak secusun®

solar control and low-e coating

### **laminated safety glass with a solar control coating**

- safety glass; 2 to 5 layers, multiple on request
- Interlayer: PVB, SG, TPU, EVA, custom-made laminates
- sun protection on side 2
- available up to 3.51m x 20m

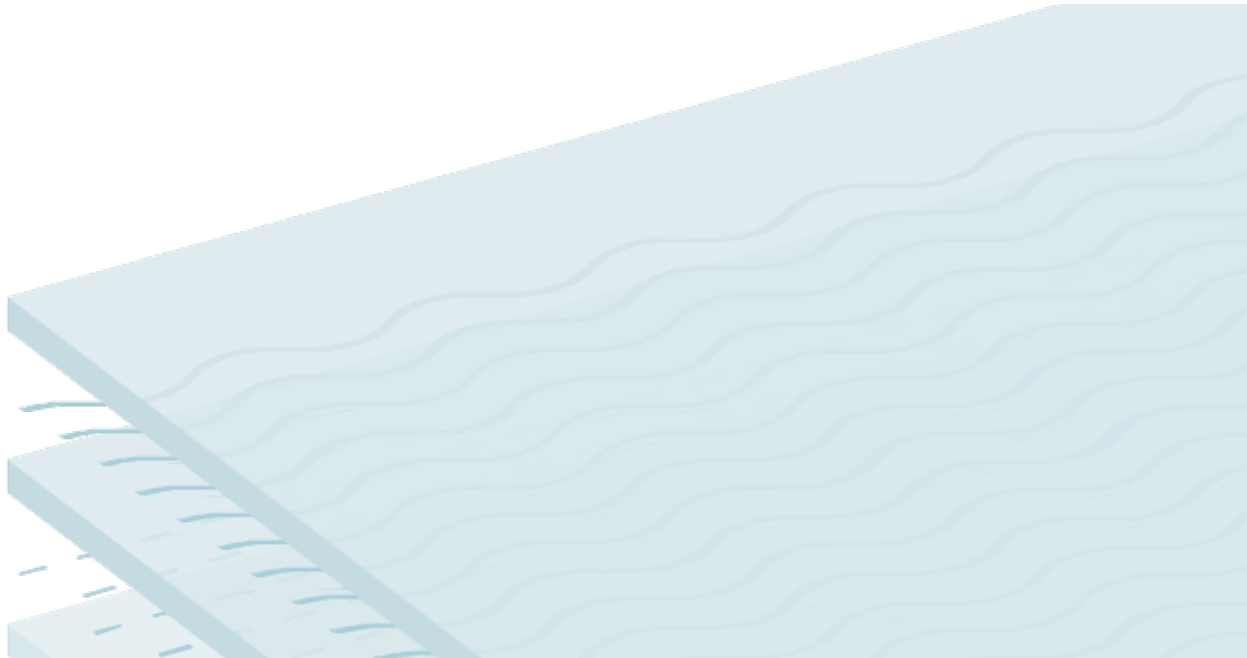


## sedak secusound®

sound insulation safety glass

### **sound insulation glass with a special PVB interlayer**

- safety glass; 2 to 5 layers, multiple on request
- with sound insulating interlayer
- interlayer: PVB, custom-made
- available up to 3.51m x 20m





## sedak secuprotect®

with a highly exclusive protective function

**With sedak secuprotect®, sedak laminated safety glass can comply with the following various safety requirements depending on the makeup of the total laminate.**

- Suitability for foot traffic
- Falling and fall-through resistance
- Resistance to thrown objects
- Resistance to manual attack
- Bullet resistance
- Blast resistance
- Hurricane resistance



## sedak secuprotect<sup>®</sup>

with a highly exclusive protective function

**sedak VSG becomes sedak secuprotect<sup>®</sup>  
with an individual build-up and  
combination**

- safety glass; 2 to 5 layers,  
multiple on request
- in seven safety qualities
- interlayer: PVB, SG, TPU, EVA,  
custom-made laminates
- up to 3.51m x 20m

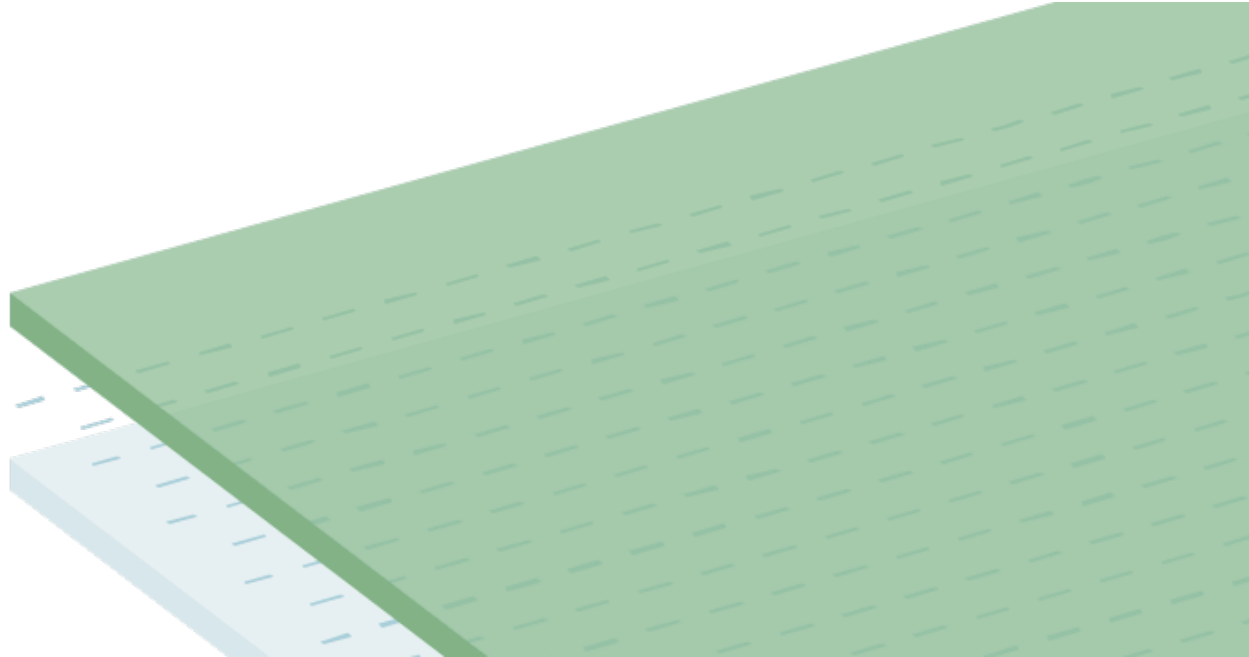


## sedak secucolor<sup>®</sup>

colored safety glass

**laminated safety glass made of body-tinted insulating glass, covered with colored sheeting or printed fully covered**

- heat-strengthened or fully tempered
- safety glass; 2 to 4 layers, multiple on request
- available up to 3.51m x 20m

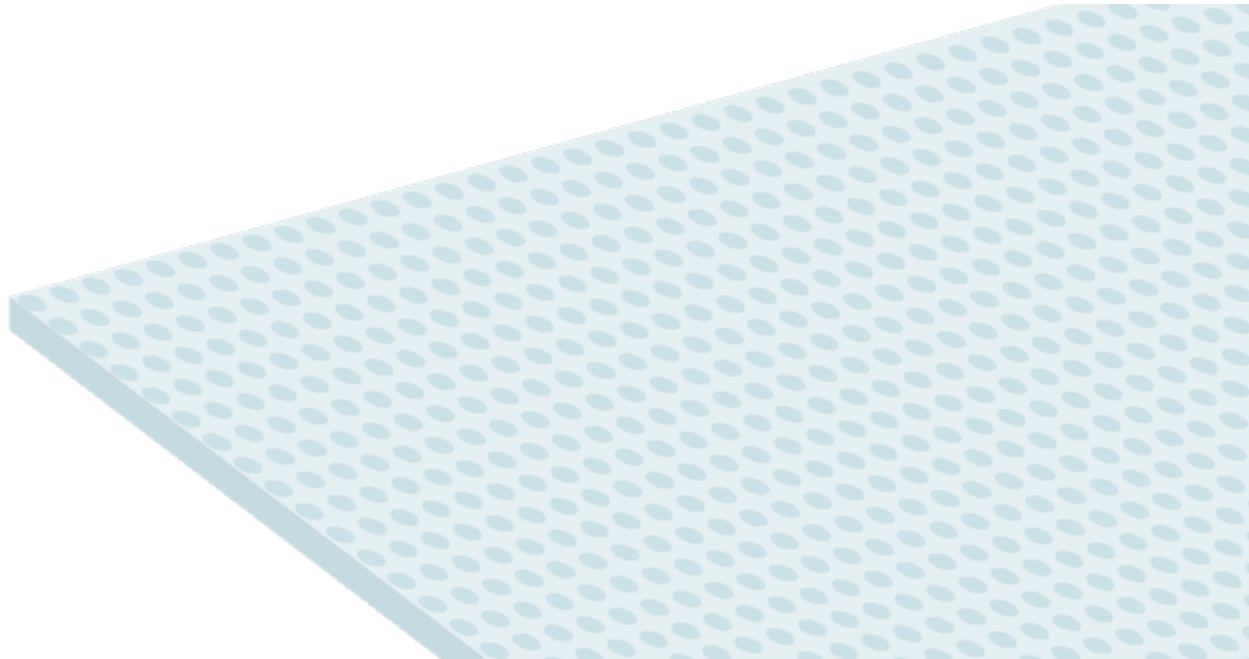


## sedak secudecor®

partially colored safety glass

**with a partial decorative coating or  
ceramic digital printing**

- heat-strengthened or fully tempered
- safety glass; 2 to 4 layers, multiple on request
- partially coated glass or ceramic-ink digitally printed glass
- available up to 3.51m x 20m



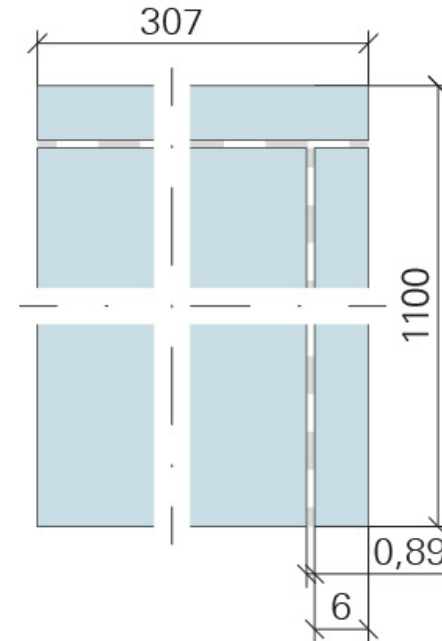
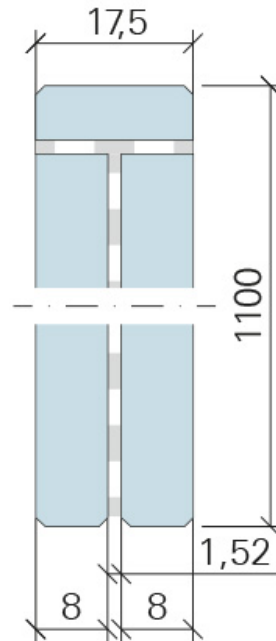
## sedak clear-edge®

invisible edge protection

**The transparent edge protection permanently protects exposed glass edges from weathering and acts as a reliable impact protection.**

- glass thickness up to 2cm for lengths of up to 5m
- glass thickness up to 4cm for lengths of up to 8m
- glass thickness from 4cm for lengths of 10 15m
- glass thicknesses of up to 10mm are possible
- available up to 3.51m x 20m

Sample construction using sedak clear-edge®: the functional impact and edge protection brings out the style.



## Glascobond®

safety glass with exceptional quality

**laminated safety glass with a  
SentryGlas® interlayer for exceptional  
stiffness and loadbearing capacity**

- high quality glass laminate
- safety glass; 2 to 5 layers, multiple on request
- interlayer: SentryGlas® Ionoplast
- nearly bubble-free, high stiffness when subjected to wind/snow/external load, shear-resistant
- makes lamination bending possible; high loadbearing capacity
- up to 3.51m x 20m



## Glascobond®

safety glass with exceptional quality

**laminated safety glass with a  
SentryGlas® interlayer for exceptional  
stiffness and loadbearing capacity**

- Wind:  $G = 100 \text{ Mpa}$
- Snow:  $G = 60 \text{ Mpa}$
- Holmload:  $G = 4 \text{ Mpa}$

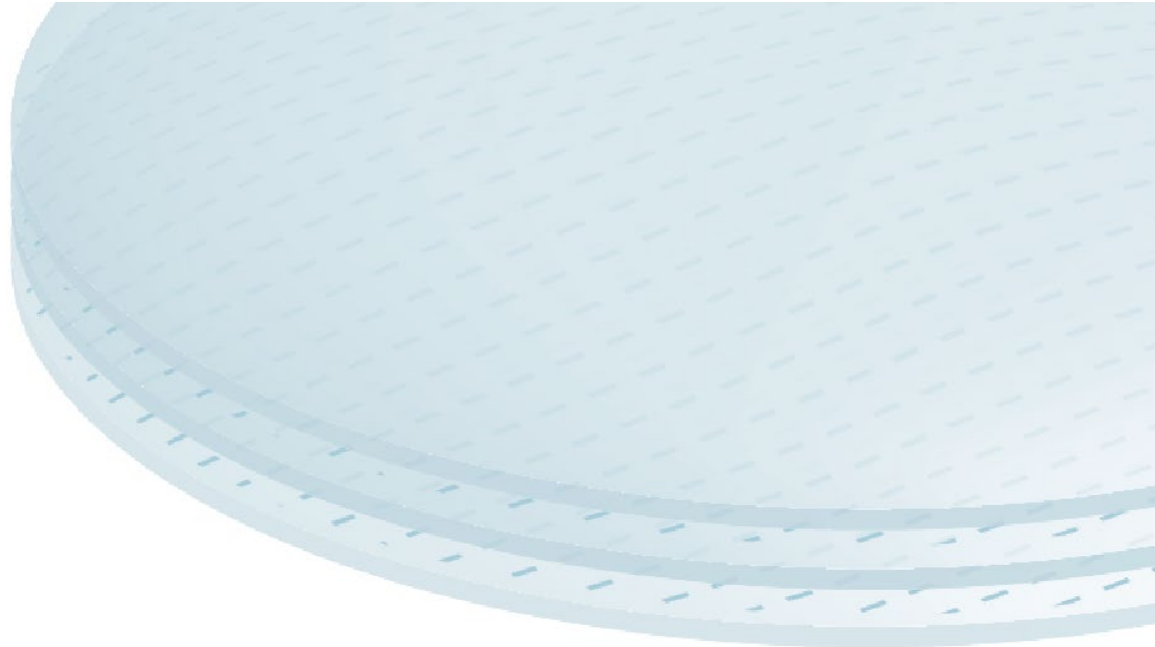


## GLY-MarineCobond®

safety glass with Type Approval

**laminated safety glass with a  
SentryGlas® interlayer certified for  
nautical applications**

- high-quality glass laminate for the maritime sector
- safety glass; 2 to 5 layers, multiple on request
- interlayer: SentryGlas® Ionoplast
- nearly bubble-free, high stiffness when subjected to wind/snow/external load, shear-resistant
- makes cold-bent laminating possible; high loadbearing capacity
- up to 3.51m x 20m





Thank you for your attention.

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