

sedak safety glass by sedak is produced exclusively under clean-room conditions using the vacuum bagging method. The result is 100 % lamination quality without bubbles or contamination. With multiple laminates of up to 18 layers, sedak safety glass shows maximum strength. Heavyweights weighing up to 8,000 kg (17,600 lbs) per pane, which are manufactured under highly accurate requirements, can resist even massive forces.

sedak VSG laminated safety glass with reliably bonded fragments of glass for a calculable residual loadbearing capacity and residual stability
sedak secusun® laminated safety glass with a solar control coating
sedak secusound® sound safety glass with a special PVB interlayer
sedak secuprotect® laminated safety glass with a highly exclusive protective function with seven safety qualities
sedak secucolor® laminated safety glass made of body-tinted safety glass, covered with colored sheeting or printed fully covered
sedak secudecor® with a partial decorative coating or a ceramic-ink digital printing
sedak GlasCobond® laminated safety glass with a SentryGlas® interlayer for exceptional stiffness and loadbearing capacity
GLY-MarineCobond® laminated safety glass with a SentryGlas® interlayer certified for nautical applications
sedak secucurved® bent safety glass
sedak clear-edge transparent edge protection shields for open laminated edges; reliable protection against the effects of weather and impacts.

sedak provides further dimensions and finishing qualities on request.

sedak – manufacturer of glass units up to 3.6 m × 20 m.

sedak is a premium manufacturer of optimum-quality safety and insulated glazing. As a leading glazing fabricators specialist in this high-expertise segment, we supply single-pane glass units, multi-layer glazing and functional insulated glass units in formats up to 3.6 m × 20 m – processed, tempered, laminated, printed, cold and hot bent. Manufacturing is optimized for extremely heavy glass with a unique degree of automation for panes this size.

The expertise and inquiring minds of the 190 sedak employees are the driving force behind constant innovations in glass manufacturing. As a full service supplier, sedak works in partnership with architects, developers, facade builders and metalwork companies and helps advance tomorrow's visionary architecture today with its innovative products.

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leading glass. **sedak**

the fascination of glass
 up to 3.6 m × 20 m

sedak insulating glass includes the largest and thickest insulating glass units in the world in addition to proven double and triple glazing. We manufacture multiple units up to 20 m (787 in) with multiple laminates. We can additionally supply insulating glass units with steps up to 700 mm (27 ½ in) on the bottom edge, for an esthetically advantageous composition with minimum joint thickness.

sedak isotherm® low insulating glass for energy-efficient construction
sedak isomax® with integrated insulation panels for maximum thermal protection for glass façade with a U-value up to 0.23 W/qmK
sedak isosun® protects against glare and solar heat gains due to its highly efficient combination coating
sedak isosound® sound insulating glass with a special PVB interlayer
sedak isosecure® made of float or heat-strengthened glass; provides shatterproof protection up to bullet resistance BR7
sedak isocolor® colored insulating glass made of body-tinted insulating glass, covered with colored sheeting or printed fully covered
sedak isodecor® with a partial decorative coating or a ceramic-ink digital printing
sedak isocurved® bent insulating glass
sedak isopure® insulating glass with transparent spacer that makes butt joints in all-glass façades seem to disappear



big and economical
up to 3.6 m × 20 m

production capabilities

processing	max. length	max. width	thickness	quality	shape	max. groove width	standard
cutting	20,000 mm / 787 in	3,600 mm / 142 in	4–19 mm / $\frac{5}{32}$ – $\frac{3}{4}$ in				
edging	20,000 mm / 787 in	3,600 mm / 142 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	matt grinded, polished grinded, mirror polished			DIN 1249
surface treatment	20,000 mm / 787 in	3,600 mm / 142 in		matt grinded, polished grinded, mirror polished	C cut, V cut	50 mm / 5,9 in	

coating	max. length	max. width	thickness	standard
	19,450 mm / 766 in	3,210 mm / 128 in	4–19 mm / $\frac{5}{32}$ – $\frac{3}{4}$ in	DIN EN 1096-4

ceramic-ink printing	max. length	max. width	thickness	tolerances frameless printing	tolerances multiple printing	printing resolution
screen printing	2,400 mm / 94 in	1,350 mm / 53 in	4–10 mm / $\frac{5}{32}$ – $\frac{25}{64}$ in			
roller-coater printing	20,000 mm / 787 in	3,300 mm / 130 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in			
digital printing	18,000 mm / 709 in	3,300 mm / 130 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	0–4,000 mm: 1 mm, 4,000–9,000 mm: 2 mm, 9,000–18,000 mm: 3 mm / 0–157 in: $\frac{1}{25}$ in, 157–354 in: $\frac{1}{16}$ in, 354–709 in: $\frac{3}{32}$ in	± 0,2 mm / ± 0,001 in	max. 1.410 dpi
type of color	ceramic ink, heavy metal-free, precious-metal ceramic colors (yellow gold, white gold)					

bending	length	width	thickness	bending shape	Rmin.*	max. bending angle
gravity curved glass	11,500 mm / 453 in	3,300 mm / 130 in	2–19 mm / $\frac{5}{64}$ – $\frac{3}{4}$ in	cylindrical, conical, spherical, toroidal, J-shape, double-curvature, free-form		
tempered curved glass	2,440 mm / 96 in	1,570 mm / 62 in	4–8 mm / $\frac{5}{32}$ – $\frac{5}{16}$ in	cylindrical	1,000 mm / 39 in	90°
	4,200 mm / 165 in	2,440 mm / 96 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical	1,500 mm / 59 in	90°
	2,440 mm / 96 in	4,500 mm / 177 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	cylindrical	2,500 mm / 98 in	90°
	3,000 mm / 118 in	1,500 mm / 59 in	5–10 mm / $\frac{13}{64}$ – $\frac{25}{32}$ in	cylindrical	650 mm / 26 in	105°
	2,500 mm / 98 in	1,500 mm / 59 in	5–8 mm / $\frac{13}{64}$ – $\frac{5}{16}$ in	J-shape	350 mm / 14 in	90°
	5,000 mm / 197 in	3,200 mm / 126 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical, J-shape	1,500 mm / 59 in	90°
	3,300 mm / 130 in	3,600 mm / 142 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	cylindrical	1,500 mm / 59 in	90°
	3,300 mm / 130 in	2,500 mm / 98 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical	900 mm / 35 in	90°
	6,500 mm / 256 in	3,600 mm / 142 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	cylindrical	2,000 mm / 78 in	90°
	6,500 mm / 256 in	3,600 mm / 142 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	double-curvature	y=4,250 mm / 167 in x=7,000 mm / 276 in	
18,000 mm / 709 in	3,600 mm / 142 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	cylindrical	1,000 mm / 39 in	90°	
cold bending during lamination (min. bending radius 1,500xthickness)	20,000 mm / 787 in	3,600 mm / 142 in	6 mm, 8 mm, 10 mm / $\frac{1}{4}$ in, $\frac{5}{16}$ in, $\frac{3}{8}$ in		9,000 mm, 12,000 mm, 15,000 mm / 354 in, 472 in, 591 in	National Technical Approval: Z-70.3-175

*Data depending on glass width, glass length and glass thickness as well as coatings.

production capabilities

tempering	max. length	max. width	thickness	min. surface tension	max. depth	standard
heat-strengthened glass	20,000 mm / 787 in	3,600 mm / 142 in	6–12 mm / ¼ – ½ in	70 MPa		DIN EN 1863
fully tempered glass	20,000 mm / 787 in	3,600 mm / 142 in	6–19 mm / ¼ – ¾ in	120 MPa		DIN EN 12150
heat soak test	20,000 mm / 787 in	3,600 mm / 142 in	6–19 mm / ¼ – ¾ in			DIN EN 14179
chemically toughened glass	4,900 mm / 193 in	2,400 mm / 94 in	2–19 mm / 5/64 – ¾ in		1,120 mm / 44 in	

laminating	max. length	max. width	lamination interlayer	special laminations	intermediate materials	standard
	20,000 mm / 787 in	3,600 mm / 142 in	SentryGlas®, PVB, TPU, EVA, special interlayers	metal, stone, timber, projection foils, function elements, such as fasteners	Sefar fabrics, Southwall interlayer, XIR interlayer	DIN EN 14449, DIN EN 12543-2
sedak GlasCobond®	National Technical Approval: Z-70.3-259					DIN EN 14449, DIN EN 12543-2
sedak MarineCobond®						DIN EN 14449, DIN EN 12543-2

insulating glass	max. length	max. width	standard
flat / cold bent	20,000 mm / 787 in	3,600 mm / 142 in	DIN EN 1279-5
hot bent	18,000 mm / 709 in	3,600 mm / 142 in	
finishing	made of laminated safety glass, solar control coating, low-e coating, combination coatings, sound insulation interlayer, colored interlayer, colored glass, roller-coater printing, digital printing and decorative coating		

Further dimensions, finishing stages, designs and special shapes are available on specific request.

Please contact our sales team for your inquiry.

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