

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**

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

leading glass. **sedak**

production skills

processing	max. length	max. width	thickness	quality	radius	standard
cutting	20,000 mm / 787 in	3,510 mm / 138 in	4–19 mm / $\frac{5}{32}$ – $\frac{3}{4}$ in			
drilling					6 mm–32 mm $\frac{1}{4}$ – $1\frac{1}{4}$ in	
edging	20,000 mm / 787 in	3,600 mm / 138 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	matt grinded, polished grinded, mirror polished		DIN 1249

tempering	max. length	max. width	thickness	min. surface tension	standard
heat-strengthened	20,000 mm / 787 in	3,600 mm / 138 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	70 MPa	DIN EN 1863
fully tempered	20,000 mm / 787 in	3,600 mm / 138 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	120 MPa	DIN EN 12150
heat soak test	20,000 mm / 787 in	3,600 mm / 138 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in		DIN EN 14179

chemically toughened	max. length	max. width	thickness	max. depth
	4,900 mm / 193 in	2,400 mm / 94 in	2–19 mm / $\frac{5}{64}$ – $\frac{3}{4}$ in	1,120 mm / 44 in

ceramic-ink printing	max. length	max. width	thickness	tolerances frameless printing	tolerance multiple printing	printing resolution
screen printing	2,400 mm / 95 in	1,350 mm / 53 in	4–10 mm / $\frac{5}{32}$ – $2\frac{5}{64}$			
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 9,000–16,500 mm: 3 mm	± 0,2 mm	max. 1,024 dpi
type of color	ceramic ink, free of heavy metals					

coating	max. length	max. width	thickness	standard
	19,450 mm / 766 in	3,200 mm / 126 in	4–19 mm / $\frac{5}{32}$ – $\frac{3}{4}$ in	DIN EN 1096-4

laminating	max. length	max. width	lamination interlayer	special laminations	intermediate materials
	20,000 mm / 787 in	3,600 mm / 138 in	SentryGlas®, PVB, TPU, EVA, special interlayers	metal, stone, projection foils, function elements such as fasteners	sefar fabrics, southwall, XIR-Interlayer
standard	DIN EN 14449, DIN EN 12543-2				
sedak GlasCobond®	abZ: Z-70.3-175, Z-70.3-153				
sedak MarineCobond®	Certificate No. HTS/STAT 24025-14				

cold bending	max. length	max. width	min. bending radius (glass thickness)
cold bending (min. bending radius 1,500 × thickness)	20,000 mm / 787 in	3,600 mm / 138 in	9,000 mm (6 mm) / 354 in ($\frac{1}{4}$ in) 12,000 mm (8 mm) / 472 in ($\frac{5}{16}$ in) 15,000 mm (10 mm) / 590 in ($\frac{3}{8}$ in)
cold bent glass	National Technical Approval: Z-70.3-175		

production skills

hot bending	length	width	thickness	bending shape	Rmin.*	max. bending depth	bending angle
gravity curved glass	11,500 mm / 452 in	3,300 mm / 130 in	2–19 mm / $\frac{5}{64}$ – $\frac{3}{4}$ in	cylindrical, conical, spherical, toric, j shape, double bend and irregular bend			
tempered curved glass	2,440 mm / 53 in	1,570 mm / 62 in	4–8 mm / $\frac{5}{32}$ – $\frac{5}{16}$	cylindrical	1,000		90 °
	4,800 mm / 189 in	2,440 mm / 96 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical	1,500		90 °
	2,440 mm / 53 in	4,250 mm / 130 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	cylindrical	2,500		90 °
	3,000 mm / 118 in	1,500 mm / 59 in	5–10 mm / $\frac{13}{64}$ – $\frac{25}{32}$	cylindrical	650		105 °
	2,500 mm / 59 in	1,200 mm / 47 in	5–8 mm / $\frac{13}{64}$ – $\frac{5}{16}$	j shape	350		90 °
	5,000 mm / 197 in	3,200 mm / 126 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical and j shape	1,500		90 °
	3,300 mm / 130 in	3,600 mm / 142 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	cylindrical	1,500		90 °
	3,300 mm / 130 in	2,500 mm / 59 in	6–12 mm / $\frac{1}{4}$ – $\frac{1}{2}$ in	cylindrical	900		90 °
	6,500 mm / 256 in	3,600 mm / 142 in	6–19 mm / $\frac{1}{4}$ – $\frac{3}{4}$ in	cylindrical	2,000		
	6,500 mm / 256 in	3,600 mm / 142 in	6–15 mm / $\frac{1}{4}$ – $\frac{19}{32}$ in	double-bending		x = 400 mm / 16 in y = 800 mm / 35 in	

insulating glass unit	max. length	max. width	thickness/ unit	max. weight	standard	structure	step
	20,000 mm 787 in	3,600 mm 141 in	102 mm 4 in	450 kg / lm 992 lbs / lm	DIN EN 1279-5	double to quadruple glazing	max. 700 mm max. 27 ½ in
finishing	low-e coating, solar control coating, with laminated safety glass, sound insulation interlayer, colored glass, colored interlayer, roller-coater printing, digital printing and decorative coating (up to 18,000 mm)						
hot bent tempered IGU	11,500 mm 452 in	3,300 mm 130 in					

*All Rmin. details are dependent on the glass width, length and thickness.

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