

leading glass. **sedak**



the fascination of glass
up to 3.2 m × 16.5 m

products

sedak insulating glass (1) – includes the largest and thickest insulating glass units in the world in addition to proven double and triple glazing. We manufacture panes up to 16.5m (650 in) long with multiple laminations multiply glazed by our highly automated production lines. We can additionally supply insulating glass units with steps up to 700mm (27 1/2 in) on the bottom edge, for an esthetically advantageous composition with minimum joint thickness.

sedak isotherm low insulating glass for energy-efficient construction

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

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 safety glass (2) – 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 12 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 secure laminated safety glass with a highly exclusive protective function with seven safety qualities

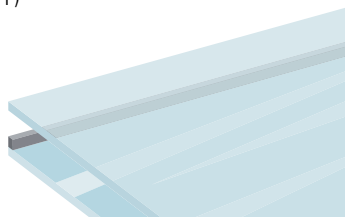
sedak secucolor laminated safety glass made of body-tinted safety glass, covered with colored sheeting or printed fully covered

sedak secudecor with a partial decorative coating or a ceramic-ink digital printing

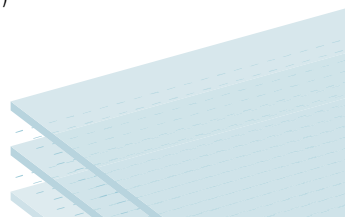
sedak GlasCobond® laminated safety glass with a SentryGlas® interlayer for exceptional stiffness and loadbearing capacity

GLY-MarineCobond® laminated safety glass with a SentryGlas® interlayer certified for nautical applications

(1)



(2)



production skills

processing	max. length	max. width	thickness	max. weight	quality	radius	standard
cutting	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	3,000 kg 4,400 lbs			
drilling						min. 6 mm min. ¼ in	
edging	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	350 kg /qm	KGS, KGN, KPO		DIN 1249
tempering	max. length	max. width	thickness	max. weight	min. surface tension	standard	
heat-strengthened	16,500 mm / 650 in	3,200 mm / 126 in	6–12 mm / ¼–½ in	1,584 kg /pane 3,492 lbs /pane	70 MPa	DIN EN 1863	
fully tempered	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	2,508 kg /pane 5,529 lbs /pane	120 MPa	DIN EN 12150	
heat soak test	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	12,000 kg 26,455 lbs		DIN EN 14179	
ceramic-ink printing	max. length	max. width	thickness	max. weight	tolerances frameless printing	tolerance multiple printing	printing resolution
roller-coater printing	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	2,822 kg / 6,221 lbs			
digital printing	16,500 mm / 650 in	3,200 mm / 126 in	6–19 mm / ¼–¾ in	2,822 kg / 6,221 lbs	0–4,000 mm: 1 mm 4,000–9,000 mm: 2 mm 9,000–16,500 mm: 3 mm	± 0.2 mm	max. 1024 dpi
type of color	ceramic ink, free of heavy metals						
coating	max. length	max. width	thickness	max. weight	standard		
	16,500 mm / 650 in	3,200 mm / 126 in	4–19 mm / ⅝–¾ in	2,500 kg / 5,511 lbs	DIN EN 1096-4		
laminating	Autoclave 1	Autoclave 2	Autoclave 3	Autoclave 4	lamination interlayer	special laminations	intermediate materials
	3,200 mm × 16,500 mm / 126 × 650 in	3,200 mm × 15,000 mm / 126 × 590 in	2,650 mm × 12,000 mm / 104 × 472 in	590 mm × 1,500 mm / 23 × 59 in	SentryGlas®, PVB, TPU, EVA	metal, stone, projection foils, function elements such as fasteners	Sefar fabrics, southwall, XIR-Interlayer
standard	DIN EN 14449, DIN EN 12543						
sedak GlasCobond®	abZ: Z-70.3-175, Z-70.3-153						
GLY-MarineCobond®	Certificate No. HTS/STAT 24025-14						
cold-bent glass	National Technical Approval: Z-70.3-175						
bending	min. size	max. size	heat-treated	min. bending radius			
bent tempered glass	400 mm × 600 mm / 16 × 24 in	3,200 mm × 5,000 mm / 126 × 196 in	6–19 mm /¼–¾ in max. bending angle 90°	2,000 mm (6 + 12 mm) /79 in (¼ + ½ in) 1,500 mm (8 + 10 mm) /59 in (⅜ + ⅜ in) 2,500 mm (15 mm) /98 in (⅝ in) 3,000 mm (19 mm) /118 in (¾ in)			
cold bending (min. bending radius 1,500 × thickness)				9,000 mm (6 mm) /354 in (¼ in) 12,000 mm (8 mm) /472 in (⅝ in) 15,000 mm (10 mm) /590 in (¾ in)			
insulating glass	max. length	max. width	thickness / unit	max. weight	standard	structure	step
	15,000 mm / 590 in	3,200 mm / 126 in	102 mm / 4 in	450 kg /lm 992 lbs /lm	DIN EN 1279	double to quadruple glazing	max. 700 mm / max. 27 ½ in
finishing	low-e coating, solar control coating, sound insulation interlayer, colored glass, colored interlayer, roller-coater printing, digital printing, decorative coating						

sedak provides further dimensions and finishing qualities on request.

big and economical
up to 3.2 m × 16.5 m









The background image shows a vast industrial glass manufacturing plant. In the foreground, a long, low-profile conveyor system is visible, with several workers in hard hats and safety vests standing nearby. The floor is a light-colored, polished concrete. In the background, rows of tall, narrow racks hold numerous glass panels. The ceiling is high with exposed pipes and lighting fixtures. A semi-transparent teal box is overlaid on the left side of the image, containing text.

sedak – no. 1 manufacturer of glass units up to 3.2 m x 16.5 m.

sedak is a premium manufacturer of oversized insulating and safety glass of exceptional quality. The world's leading glass fabricator produces glass units in dimensions up to 3.2 m x 16.5 m: processed, tempered, laminated, printed, coated and cold bent. The core capabilities are the lamination of glass, edging, and the company's know-how of producing glass components with additional functional, and decorative elements.

sedak's production has been optimized for extreme glass sizes; the level of automation for glass of these dimensions is unique. All finishing steps are handled in-house e.g. with the new, fully automated insulating glass line. As a full supplier for oversize glass units, sedak sees itself as a partner for architects, designers, and façade constructors.

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