leading glass. **sedak**

the fascination of glass
up to 3.51 m × 20 m

production skills

processing	max. length	max. width	thickness	max. weight	quality	radius	standard
cutting	20,000 mm / 787 in	3,510 mm / 138 in	4–19 mm / $^5/_{32}$–$^3/_4$ in	3,000 kg 4,400 lbs			
drilling						6 mm – 32 mm $^1/_4$ – 1 $^1/_4$ in	
edging	20,000 mm / 787 in	3,510 mm / 138 in	6–19 mm / $^1/_4$–$^3/_4$ in	350 kg / qm	KPO, KGN, KGS		DIN 1249

tempering	max. length	max. width	thickness	max. weight	min. surface tension	standard
heat-strengthened	20,000 mm / 787 in	3,510 mm / 138 in	6–12 mm / $^1/_4$–$^1/_2$ in	1,584 kg / pane 3,492 lbs / pane	70 MPa	DIN EN 1863
fully tempered	20,000 mm / 787 in	3,510 mm / 138 in	6–19 mm / $^1/_4$–$^3/_4$ in	2,508 kg / pane 5,529 lbs / pane	120 MPa	DIN EN 12150
heat soak test	20,000 mm / 787 in	3,510 mm / 138 in	6–19 mm / $^1/_4$–$^3/_4$ 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	20,000 mm / 787 in	3,300 mm / 130 in	6–19 mm / $^1/_4$–$^3/_4$ in	2,822 kg / 6,221 lbs			
digital printing	18,000 mm / 709 in	3,300 mm / 130 in	6–19 mm / $^1/_4$–$^3/_4$ 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. 1,024 dpi
type of color	ceramic ink, free of heavy metals						

coating	max. length	max. width	thickness	max. weight	standard
	19,450 mm / 766 in	3,200 mm / 126 in	4–19 mm / $^5/_{32}$–$^3/_4$ in	2,500 kg / 5,511 lbs	DIN EN 1096-4

laminating	max. length	max. width	lamination interlayer	special laminations	intermediate materials
	20,000 mm / 787 in	3,510 mm × 138 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 12543-2				
sedak GlasCobond®	abZ: Z-70.3-175, Z-70.3-153				
sedak MarineCobond®	Certificate No. HTS / STAT 24025-14				
cold-bent glass	National Technical Approval: Z-70.3-175				

bending	max. length	max. width	min. bending radius (glass thickness
cold bending (min. bending radius 1,500 × thickness)	20,000 mm / 787 in	3,510 mm × 138 in	9,000 mm (6 mm) / 354 in ($^1/_4$ in) 12,000 mm (8 mm) / 472 in ($^5/_{16}$ in) 15,000 mm (10 mm) / 590 in ($^3/_8$ in)

insulating glass	max. length	max. width	thickness / unit	max. weight	standard	structure	step
	20,000 mm / 787 in	3,510 mm / 138 in	102 mm / 4 in	450 kg / lm 992 lbs / lm	DIN EN 1279-5	double to quatruple glazing	max. 700 mm / max. 27 $^1/_2$ 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 18,000mm)						

sedak provides further dimensions and finishing qualities on request.

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 units up to 20 m (787 in) long with multiple laminations multiply glazed. We can additionally supply insulating glass units with steps up to 700 mm (27 $\frac{1}{2}$ in) on the bottom edge, for an esthetically advantageous composition with minimum joint thickness.

sedak isotherm® low insulating glass for energy-efficient construction
sedak isomax® is the marvelous space saver that stands for maximum thermal insulation and a U-value up to 0.23 W / qmK thanks to integrated insulation panels
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 re quirements, 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

(1)

(2)

sedak – number 1 manufacturer of glass units up to 3.51 m x 20 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 3.51 m x 20 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.

big and economical
up to 3.51 m × 20 m