



ISOLAR GLAS

THE PROGRAMME 2012

Main table with columns: Run. No., Glass type, Glass assembly, Ug (DIN EN 673), Light transmission\*, Solar factor\*, Light reflexion, Sound insulation, Resistance class\*, Thickness, Weight, Notes and other product options. It lists various product lines including NEUTRALUX, AKUSTEX, SOLARLUX, ARDOREX, and VISOREX.



Run. No.	Glass type (Mono-types without coating)	Glass assembly	U <sub>g</sub> (DIN EN 673) ΔT = 15K in W/m <sup>2</sup> K	Resistance class* (DIN EN 356/1063)	Resistance class* Windows (DIN EN 1627/ DIN EN 1522)	Light transmission (EN 410) in % (±2)	Solar factor* g value (EN 410) in % (±2)	Light reflexion (EN 410) in % (±2)	Thickness in mm, Tolerance dependant on type	Weight in kg/m <sup>2</sup> (±1,0)	Notes and other product options. Please observe static calculations as per relevant requirements!	
6.01	<b>MULTIPACT®</b> P1A - P5A Resistance against manual attack (DIN EN 356)	advance //	mono	8		89	79	8	8	20	<b>Typical protection use:</b> Family and apartment houses in residential areas, remote individual houses, exclusive residential properties, holiday and weekend cottages. <b>The following applies to the entire ISOLAR MULTIPACT-product range:</b> The thicker the glass assembly, the more noticeable the glass's inherent colour becomes, so it is recommended to use glass products with a particularly low inherent colour. All <b>ISOLAR MULTIPACT</b> types can also be supplied as triple safety glass. <b>Max. dimension 4000 X 2600 mm, or 500 kp/unit.</b>	
6.02		-	8 P1A	8	P1A	89	79	8	8	20		
6.03		-	8 P2A	9	P2A	89	78	8	9	21		
6.04		-	9 P3A	9	P3A	89	77	8	9	21		
6.05		-	9 P4A	10	P4A	89	76	8	10	22		
6.06		-	10 P5A	10	P5A	89	76	8	10	22		
6.07		27 P1A	27 P1A	4: / 15-16 / 8	P1A	-	79	60	15	27		31
6.08		27 P2A	27 P2A	4: / 15-16 / 8	P2A	-	79	60	15	27		31
6.09		28 P3A	28 P3A	4: / 15-16 / 9	P3A	-	79	60	15	28		32
6.10		28 P4A	28 P4A	4: / 15-16 / 9	P4A	RC 2	79	60	15	28		33
6.10	29 P5A	29 P5A	4: / 15-16 / 10	P5A	RC 3	79	60	15	29	33		

7.01	<b>MULTIPACT®</b> P6B - P8B Resistance against manual attack (DIN EN 356)	advance //	mono	15		87	72	8	15	34	<b>Typical protection use:</b> Exclusive residential properties containing valuables, photo, electronic and video shops, IT installations, certain areas of department stores, antique shops, museums, art galleries, psychiatric facilities, furriers, jewellers, power plants, prisons, pharmacies etc.
7.02		-	15 P6B	20	P6B	85	67	8	20	45	
7.03		-	20 P7B	29	P7B	83	64	8	29	67	
7.04		-	29 P8B	29	P8B	83	64	8	29	67	
7.05		31 P6B	-	6: / 10 / 15	P6B	77	57	5	31	49	
7.06		36 P7B	-	6: / 10 / 20	P7B	75	57	15	36	60	
7.06		45 P8B	-	6: / 10 / 29	P8B	73	57	15	45	82	

8.01	<b>MULTIPACT®</b> BR1 - BR7 Bullet resistant (DIN EN 1063)	advance //	mono	Mono		81	63	7	30	73	<b>ISOLAR MULTIPACT BR1-BR7</b> Bullet-resistant, tested as per DIN EN 1063 S = no penetration, splinters NS = no penetration, no splinters <b>Typical protection use:</b> Buildings and facilities for police forces, the Army; politicians, members of the judiciary and business people at risk of attacks; banks and cash rooms etc. For many <b>ISOLAR MULTIPACT</b> types, a combination of heat insulating and solar control glass as well as toughened or patterned glass is possible. Alarm triggering by toughened safety glass available as per corresponding VdS approval in models: <b>ISOLAR MULTIPACT alarm covered</b> or <b>ISOLAR MULTIPACT alarm visible</b> . Available in addition, <b>ISOLAR MULTIPACT SG1 + SG2</b> (bullet resistant acc. to DIN EN 1063), <b>ISOLAR MULTIPACT D</b> (explosion-resistant glazing acc. to DIN EN 52 290-5), as well as <b>ISOLAR MULTIPACT S</b> (post offices, bank tellers, protection against climbing over).
8.02		-	30 BR2-S	Mono	BR2-S + P6B + P7B	80	61	7	33	80	
8.03		-	33 BR2-NS	Mono	BR2-NS	81	62	7	31	74	
8.04		-	31 BR3-S	Mono	BR3-S + P7B	79	60	7	35	85	
8.05		-	35 BR4-S	Mono	BR4-S	76	56	7	46	110	
8.06		-	46 BR4-NS	Mono	BR4-NS	69	49	7	74	178	
8.07		-	74 BR6-S	Mono	BR6-S	79	55	14	24	35	
8.08		24 BR1-S	-	ISO	BR1-S	78	53	14	27	42	
8.09		27 BR1-NS	-	ISO	BR1-NS	76	50	13	34	56	
8.10		34 BR2-S	-	ISO	BR2-S	74	48	13	39	72	
8.11		39 BR2-NS	-	ISO	BR2-NS	76	54	14	33	53	
8.12		33 BR3-S	-	ISO	BR3-S	72	44	13	51	94	
8.13		51 BR3-NS	-	ISO	BR3-NS	74	53	13	41	73	
8.14		41 BR4-S	-	ISO	BR4-S	70	42	13	55	108	
8.15		55 BR4-NS	-	ISO	BR4-NS	73	47	13	44	81	
8.16		44 BR5-S	-	ISO	BR5-S	67	42	12	65	132	
8.17		65 BR5-NS	-	ISO	BR5-NS	72	45	14	52	97	
8.18		52 BR6-S	-	ISO	BR6-S	66	40	12	73	148	
8.19		73 BR6-NS	-	ISO	BR6-NS	63	38	12	88	183	
8.20		88 BR7-S	-	ISO	BR7-S	62	37	12	88	187	

9.01	<b>MULTIPACT®</b> EH Classification in accordance with VDS	mono		Mono		89	77	8	10	23	<b>Typical protection use:</b> Similar to <b>ISOLAR MULTIPACT PA</b> or <b>PB</b> . Need for application depending on insurance cover as per the security guidelines of insurance companies. <b>All EH types are approved by VdS.</b> Many <b>ISOLAR MULTIPACT</b> ISO types with the appropriate installation modifications can be supplied with higher performance heat insulation up to 1,1 W/m <sup>2</sup> K.
9.02		11 EH 01		Mono		89	76	8	11	23	
9.03		12 EH 02		Mono		84	67	8	24	55	
9.04		24 EH 1		Mono		85	67	8	23	52	
9.05		23 EH 2		Mono		80	59	8	40	96	

10.01	<b>ORNILUX®</b> Bird protection glass	mono		VG 4: / 4 / :4		-	-	-	12	30	<b>ISOLAR ORNILUX</b> is the first bird protection glass worldwide which has shown improved perception by birds in extensive tests carried out by recognised ornithological institutes in Germany and in the USA. It can be used the same as conventional glass. Other combinations on request.
10.02		advance // 1.1		4 / 16 / VSG 8		-	-	-	28	30	
10.03		scandic // 50.26		6 / 16 / VSG 8		-	-	-	30	35	

Run. No.	Glass type	Glass assembly	U value (calculated) in W/m <sup>2</sup> K	U value (legal approved) in W/m <sup>2</sup> K	Sound insulation (DIN EN ISO 140/717) R <sub>w</sub> in dB	Dimensions in mm	Thickness in mm, Tolerance dependant on type	Weight in kg/m <sup>2</sup> (±1,0)	Notes and other product options. Please observe static calculations as per relevant requirements!
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11.01	<b>VACUREX®</b> High-performance heat insulating glass panels	// 0.30		6 / SZR 18 / 6	0,30	0,62	36	max. 2000 x 3000	30	26	<b>ISOLAR VACUREX</b> consists of two thermally toughened panes which can be designed with RAL colours. The inner pane can optionally be replaced by a coated metal sheet. Higher insulation characteristics are possible on request.
11.02		// 0.32		6 / SZR 20 / 6	0,27	0,55	-	max. 2000 x 3000	32	26	
11.03		// 0.34		6 / SZR 27 / 3 steel plate	0,34	0,69	44	max. 2000 x 3000	37	49	

Run. No.	Glass type	Glass assembly	U <sub>g</sub> value in W/m <sup>2</sup> K	Solar factor (EN 410) in % (±2)	Light transmission (EN 410) in % (±2)	Nominal capacity in W peak per m <sup>2</sup> 10% / 20% / opaque	Voltage in volts per cell	Section cable / plug	Thickness in mm, Tolerance dependant on type	Weight in kg/m <sup>2</sup> (±1,0)	Notes and other product options. Please observe static calculations as per relevant requirements!
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12.01	<b>VOLTARLUX®</b> Solar energy modules	advance	mono	TVG WG 6 / ASI / TVG 6	-	23	1	66	1,25	4 mm <sup>2</sup> / MC3	16	35	<b>ISOLAR VOLTARLUX</b> photovoltaic technology involves the application of amorphous silicon thin-layer modules. Specifications on light transmittance refer to the photovoltaic surface covered. Architectural design by screen printing, coloured glass etc. is also possible as is the design of all model variations.
12.02		-	ASI-N	TVG WG 6 / ASI / TVG 6	-	27	10	57	1,25	4 mm <sup>2</sup> / MC3	16	35	
12.03		-	ASI-T 10	TVG WG 6 / ASI / TVG 6	-	31	20	50	1,25	4 mm <sup>2</sup> / MC3	16	35	
12.04		-	ASI-T 20	TVG WG 6 / ASI / TVG 6	-	31	20	50	1,25	4 mm <sup>2</sup> / MC3	16	35	
12.05		// ASI-N	-	TVG WG 6 / ASI / SZR 18 / :VSG 8	1,1	9	1	66	1,25	4 mm <sup>2</sup> / MC3	32	40	
12.06		// ASI-T 10	-	TVG WG 6 / ASI / SZR 18 / :VSG 8	1,1	10	10	57	1,25	4 mm <sup>2</sup> / MC3	32	40	
12.07		// ASI-T 20	-	TVG WG 6 / ASI / SZR 18 / :VSG 8	1,1	16	20	50	1,25	4 mm <sup>2</sup> / MC3	32	40	
12.08		/// ASI-N	-	TVG WG 6 / ASI / SZR 16 / :ESG 4 / SZR 16 / :VSG 8	0,6	7	1	66	1,25	4 mm <sup>2</sup> / MC3	50	50	
12.09		/// ASI-T 10	-	TVG WG 6 / ASI / SZR 16 / :ESG 4 / SZR 16 / :VSG 8	0,6	8	10	57	1,25	4 mm <sup>2</sup> / MC3	50	50	
12.09		/// ASI-T 20	-	TVG WG 6 / ASI / SZR 16 / :ESG 4 / SZR 16 / :VSG 8	0,6	13	20	50	1,25	4 mm <sup>2</sup> / MC3	50	50	

\*)The indicated performances have been determined according to the relevant test standards and legal rules for the test dimensions and test conditions required or described therein. Deviating dimensions and combinations as well as glass thickness adjustments resulting from static requirements, for example, may lead to changes in individual characteristics. Indicated values only refer to glass elements. The performances of building elements depend to a large extent on the construction of the frame. U<sub>g</sub> values are calculated according to DIN EN 673 for vertical installations. Due to tolerances of input parameters, a deviation of up to 0,1 W/m<sup>2</sup>K from calculated value is possible. Please also note our Technical Data Sheet!

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