ISOLAR® PROGRAMME 2025

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ISOLAR® GLAS
MEHR AUS GLAS

SOLARLUX® – SOLAR CONTROL

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R_a	Sound Insulation R_w / C / C_{tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
Spectrally highly selective											
SOLARLUX® A71 // 70.37	neutral	6: / 16 / 4	1,0	70	37	13	14	96	36	26	25
SOLARLUX® A61 // 61.33	neutral	6: / 16 / 4	1,0	61	33	13	12	93	36	26	25
SOLARLUX® A51 // 52.28	neutral	6: / 16 / 4	1,0	52	28	14	11	92	36	26	25
SOLARLUX® A40 // 43.23	neutral	6: / 16 / 4	1,0	43	23	22	11	91	36	26	25
SOLARLUX® E71 // 70.39	neutral	6: / 16 / 4	1,0	70	39	12	14	97	36	26	25
SOLARLUX® X60 // 60.28	neutral-blue	6: / 16 / 4	1,0	60	28	14	13	95	36	26	25
SOLARLUX® X35 // 35.14 [1]	neutral-blue	6: / 16 / 4	1,0	35	14	15	22	77	36	26	25
SOLARLUX® A71 /// 63.35	neutral	6: / 14 / 4 / 14 / :4	0,6	63	35	15	16	95	38 / -2 / -7	42	35
SOLARLUX® A61 /// 55.31	neutral	6: / 14 / 4 / 14 / :4	0,6	55	31	14	14	92	38 / -2 / -7	42	35
SOLARLUX® A51 /// 47.26	neutral	6: / 14 / 4 / 14 / :4	0,6	47	26	16	14	91	38 / -2 / -7	42	35
SOLARLUX® A40 /// 39.21	neutral	6: / 14 / 4 / 14 / :4	0,6	39	21	23	14	90	38 / -2 / -7	42	35
SOLARLUX® E71 /// 64.36	neutral	6: / 14 / 4 / 14 / :4	0,6	64	36	14	16	96	38 / -2 / -7	42	35
SOLARLUX® X60 /// 54.25	neutral-blue	6: / 14 / 4 / 14 / :4	0,6	54	25	15	16	94	38 / -2 / -7	42	35
SOLARLUX® X35 /// 32.13 [1]	neutral-blue	6: / 14 / 4 / 14 / :4	0,6	32	13	15	23	76	38 / -2 / -7	42	35
Spectrally selective											
SOLARLUX® D70 // 68.46	neutral	6: / 16 / 4	1,1	68	46	21	19	97	36	26	25
SOLARLUX® D60 // 58.40	neutral-silver	6: / 16 / 4	1,1	58	40	28	20	97	36	26	25
SOLARLUX® D50 // 50.33	neutral-silver	6: / 16 / 4	1,1	50	33	30	21	95	36	26	25
SOLARLUX® D40 // 40.28	silver	6: / 16 / 4	1,1	40	28	36	15	94	36	26	25
SOLARLUX® D40 blue // 38.27	blue	6: / 16 / 4	1,1	38	27	32	17	94	36	26	25
SOLARLUX® D70 /// 62.41	neutral	6: / 14 / 4 / 14 / :4	0,6	62	41	23	20	96	38 / -2 / -7	42	35
SOLARLUX® D60 /// 53.36	neutral-silver	6: / 14 / 4 / 14 / :4	0,6	53	36	29	21	96	38 / -2 / -7	42	35
SOLARLUX® D50 /// 45.29	neutral-silver	6: / 14 / 4 / 14 / :4	0,6	45	29	31	22	94	38 / -2 / -7	42	35
SOLARLUX® D40 /// 36.24	silver	6: / 14 / 4 / 14 / :4	0,6	36	24	36	17	93	38 / -2 / -7	42	35
SOLARLUX® D40 blue /// 35.23	blue	6: / 14 / 4 / 14 / :4	0,6	35	23	33	19	93	38 / -2 / -7	42	35
Reflective											
SOLARLUX® solar // 67.43	neutral-silver	6: / 16 / 4	1,0	67	43	25	24	96	36	26	25
SOLARLUX® silver // 40.21	silver	6: / 16 / 4	1,0	40	21	33	18	94	36	26	25
SOLARLUX® gold // 29.28	gold	6: / 16 / 4	1,2	29	28	36	51	92	36	26	25
SOLARLUX® silver-light // 57.47 [2]	silver	6: / 16 / :4	1,1	57	47	35	34	96	36	26	25
SOLARLUX® silver-blue // 35.27 [2]	blue	6: / 16 / :4	1,1	35	27	17	33	84	36	26	25
SOLARLUX® silver-grey // 28.27 [2]	grey	6: / 16 / :4	1,1	28	27	12	33	95	36	26	25
SOLARLUX® solar /// 61.39	neutral-silver	6: / 14 / 4 / 14 / :4	0,6	61	39	27	24	95	38 / -2 / -7	42	35
SOLARLUX® silver /// 36.19	silver	6: / 14 / 4 / 14 / :4	0,6	36	19	33	20	93	38 / -2 / -7	42	35
SOLARLUX® gold /// 26.23	gold	6: / 14 / 4 / 14 / :4	0,7	26	23	37	47	91	38 / -2 / -7	42	35
SOLARLUX® silver-light /// 52.41 [3]	silver	6: / 14 / :4 / 14 / :4	0,6	52	41	36	33	96	38 / -2 / -7	42	35
SOLARLUX® silver-blue /// 32.23 [3]	blue	6: / 14 / :4 / 14 / :4	0,6	32	23	17	32	83	38 / -2 / -7	42	35
SOLARLUX® silver-grey /// 25.23 [3]	grey	6: / 14 / :4 / 14 / :4	0,6	25	23	12	32	95	38 / -2 / -7	42	35
Monolithic											
SOLARLUX® sunlite A / 76.50 [4]	neutral-blue	6:6.2	5,4	76	50	7	7	89	36	13	30
SOLARLUX® grey 65 / 64.69	neutral-silver	6:	5,6	64	69	9	15	99	31	6	15
SOLARLUX® grey 45 / 44.53	neutral-grey	6:	5,5	44	53	10	20	98	31	6	15
SOLARLUX® silver-grey 25 / 24.39 [4]	neutral-grey	6:	5,2	24	39	19	32	96	31	6	15
SOLARLUX® bright / 67.69	neutral	6:	5,7	67	69	30	31	96	31	6	15
Internal blind											
SOLARLUX® variodirekt /// Typ: E / EC / M [5]	neutral	6: / 27 (29,32) / 6 / 14 / :6	0,6	4/7/14	7/10/17	63/58/35	-	-	-	57/59/62	45
Radio-transparent glazing											
SOLARLUX® A71 connect /// 63.35	neutral	6: / 14 / 4 / 14 / :4	0,7	63	35	15	16	95	ca. 45	42	35
SOLARLUX® A61 connect /// 56.32	neutral	6: / 14 / 4 / 14 / :4	0,7	56	32	14	15	92	ca. 45	42	35

1) Äußere Scheibe wird thermisch vorgespannt. **2)** Zusätzliche Low-E Beschichtung auf Ebene 3. **3)** Zusätzliche Low-E Beschichtung auf Ebene 3, mittlere Scheibe wird thermisch vorgespannt. **4)** Scheibe wird thermisch vorgespannt. **5)** SOLARLUX® variodirect Typ E: Jalousie elektrisch; - Typ EC: Jalousie elektrisch mit Encoder; - Typ M: Jalousie manuell bedienbar. | Zu allen SOLARLUX® Sonnenschutz Isoliergläsern gibt es passende Brüstungselemente zum Einsatz als Kalt- oder Warmpaneele.

ORNILUX® – BIRD FRIENDLY

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R_a	Sound Insulation R_w / C / C_{tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
ORNILUX® design – reflective markings											
ORNILUX® design dots [6, 7]	reflective	:6	5,7	89	85	8	8	99	31	6	15
ORNILUX® design lines [6, 7]	reflective	:66.2	5,4	83	73	11	10	98	36	13	30
ORNILUX® design dots // 1,1	reflective	:4 / 16 / :4	1,1	81	64	12	12	98	32	24	20
ORNILUX® design lines // 1,1	reflective	6: / 16 / :4	1,1	77	61	13	14	98	36	26	25
ORNILUX® design dots /// 0,6	reflective	:4 / 14 / :4 / 14 / :4	0,6	74	55	15	14	97	32	40	30
ORNILUX® design lines /// 0,6	reflective	6: / 14 / :4 / 14 / :4	0,6	70	52	16	16	97	38 / -2 / -7	42	35
ORNILUX® mikado – transparent markings											
ORNILUX® mikado // 1,0 [8]	neutral	4: / 16 / :44.2	1,0	66	48	25	25	96	38 / -2 / -6	30	35
ORNILUX® mikado // 1,1 [8]	neutral	4: / 16 / :44.2	1,1	77	61	15	14	98	38 / -2 / -7	28	30
ORNILUX® mikado A71 // 66.36 [8]	neutral	6: / 16 / :44.2	1,0	66	36	15	17	96	39 / -2 / -6	30	35
ORNILUX® mikado A61 // 58.32 [8]	neutral	6: / 16 / :44.2	1,0	58	32	14	15	93	39 / -2 / -6	30	35
ORNILUX® mikado A51 // 51.26 [8]	neutral	4:6.2: / 16 / 4	1,0	51	26	16	12	91	-	30	35
ORNILUX® supermikado	neutral	:66.2	5,4	79	71	16	16	99	36	13	30
ORNILUX® mikado /// 0,6 [8]	neutral	4: / 14 / :4 / 14 / :44.2	0,6	70	51	17	17	97	-	44	40
ORNILUX® mikado A71 /// 60.33 [8]	neutral	6: / 14 / :4 / 14 / :44.2	0,6	60	33	17	18	95	-	46	45
ORNILUX® mikado A61 /// 52.29 [8]	neutral	6: / 14 / :4 / 14 / :44.2	0,6	52	29	16	17	92	-	46	45
ORNILUX® mikado X60 /// 52.24 [8]	neutral	6:6.2: / 14 / 4 / 14 / :4	0,6	52	24	16	16	93	-	49	50
ORNILUX® supermikado A61 /// 49.26 [4]	neutral	:66.2: / 14 / 4 / 14 / :4	0,6	49	26	21	17	92	-	49	50

6) These ORNILUX® design constructions were successfully tested in the flight tunnel test in Hohenau-Ringelsdorf/Austria with markings on level 1. Further information on request. **7)** Technical data for monolithic superstructures are approximate. **8)** In coordination with the American Bird Conservancy (ABC), ORNILUX® mikado one coating can be used on surface 1, instead of the original mikado coating, which is normally placed on surface 2 or 3 within the insulating glass. ORNILUX® mikado one is a transparent, enlarged pattern based on mikado. This applies to all tested and approved ORNILUX® mikado configurations.

DEKOREX® – INDIVIDUAL DESIGN

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R_a	Sound Insulation R_w / C / C_{tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
DEKOREX® decochrome /	silver	6:	4,0	5	16	49	61	90	31	6	15
DEKOREX® decogold /	gold	6:	3,8	2	12	42	31	84	31	6	15
DEKOREX® decocopper /	copper	6:	3,8	3	13	29	30	91	31	6	15

Further versions with different degrees of coverage possible.

NEUTRALUX® – THERMAL INSULATION

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R_a	Sound Insulation R_w / C / C_{tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
NEUTRALUX® advance // 1,1	neutral	4 / 16 / :4	1,1	82	65	12	12	98	32	24	20
NEUTRALUX® advance // 1,0 [9]	neutral	4 / 12 / :4	1,0	82	65	12	12	98	30	20	20
NEUTRALUX® advance duo // 0,9 [9]	neutral	4: / 10 / :4	0,9	82	58	8	8	98	-	18	20
NEUTRALUX® uno // 1,0	neutral	4 / 16 / :4	1,0	70	50	22	24	97	32	24	20
NEUTRALUX® uno // 0,9 [9]	neutral	4 / 12 / :4	0,9	70	50	22	24	97	30	20	20
NEUTRALUX® advance /// 0,5	neutral	4: / 18 / 4 / 18 / :4	0,5	74	53	14	14	97	-	48	30
NEUTRALUX® advance /// 0,6	neutral	4: / 14 / 4 / 14 / :4	0,6	74	53	14	14	97	32 / -1 / -4	40	30
NEUTRALUX® advance /// 0,7	neutral	4: / 12 / 4 / 12 / :4	0,7	74	53	14	14	97	32 / -1 / -5	36	30
NEUTRALUX® uno /// 0,4 [9]	neutral	4: / 12 / 4 / 12 / :4	0,4	55	36	32	32	95	33 / -2 / -5	36	30
Radio-transparent glazing											
NEUTRALUX® advance connect /// 0,7 [10]	neutral	4: / 14 / 4 / 14 / :4	0,7	74	54	15	15	97	32 / -1 / -4	40	30
NEUTRALUX® uno connect /// 0,7 [10]	neutral	4: / 14 / 4 / 14 / :4	0,7	56	37	32	32	95	32 / -1 / -4	40	30

9) The values given are based on a 95% krypton gas filling. **10)** See also the flyer: NEUTRALUX® connect and the ISOLAR® Compass 2/2021: Radio-transparent insulating glass (www.isolar.de/en).

MULTIPACT® – FALL PROTECTION

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					DIN 18008	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R_a	Fall protection according to DIN 18008-4		
			W/(m²K)	%	%	%	%		Category	mm	kg/m²
MULTIPACT® advance // 1,1 [11]	neutral	6 ESG / 16 / :44.2	1,1	80	63	11	11	97	A, C2, C3	31	35
MULTIPACT® advance // 1,1 [11]	neutral	8 ESG / 16 / :55.2	1,1	79	61	11	11	96	A, C2, C3	35	45
MULTIPACT® advance // 1,1 [11]	neutral	44.2 / 16 / :6 ESG	1,1	80	59	11	11	97	A, C2, C3	31	35
MULTIPACT® advance // 1,1 [11]	neutral	44.2 / 16 / :8 ESG	1,1	79	59	11	11	97	A, C2, C3	35	40
MULTIPACT® advance // 1,1 [11]	neutral	33.1 / 16 / :44.2	1,1	80	60	12	11	97	A, C2, C3	31	35
MULTIPACT® advance // 1,1 [11]	neutral	44.1 / 16 / :44.2	1,1	79	59	11	11	97	A, C2, C3	33	40
MULTIPACT® advance // 1,1 [11]	neutral	8 ESG / 16 / :66.2	1,1	78	61	11	11	96	A, C2, C3	37	50
MULTIPACT® advance /// 0,7 [11]	neutral	6: / 12 / 4 / 12 / :44.2	0,7	72	49	14	14	96	A, C2, C3	47	45

11) The permissible dimensions for the respective category can be found in AbP P-2021-3094.

MULTIPACT® – ATTACK RESISTANCE

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410							Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index $_{Ra}$	Resistance Category according to EN 356	Resistance Category according to EN 1063	Resistance Category according to EN 1522 / 1627		
			W/(m²K)	%	%	%	%					mm	kg/m²
MULTIPACT® / 8 P2A	neutral	44.2	5,5	89	79	8	8	98	P2A	-	-	8	20
MULTIPACT® / 9 P4A	neutral	44.4	5,4	89	78	8	8	98	P4A	-	RC 2	9	20
MULTIPACT® / 10 P5A	neutral	44.6	5,3	89	77	8	8	98	P5A	-	RC 3	10	20
MULTIPACT® / 12 P5A	neutral	55.6	5,3	88	76	8	8	98	P5A	-	RC 3	12	25
MULTIPACT® advance // 28 P2A	neutral	4: / 16 / 44.2	1,1	80	61	12	11	97	P2A	-	-	28	30
MULTIPACT® advance // 29 P4A	neutral	4: / 16 / 44.4	1,1	80	61	12	11	97	P4A	-	RC 2	29	30
MULTIPACT® advance // 30 P5A	neutral	4: / 16 / 44.6	1,1	80	61	12	11	97	P5A	-	RC 3	30	30
MULTIPACT® advance // 32 P5A	neutral	4: / 16 / 55.6	1,1	80	60	12	11	97	P5A	-	RC 3	32	35
MULTIPACT® / 15 P6B	neutral	15	5,1	87	74	8	8	98	P6B	-	RC 4	15	30
MULTIPACT® / 20 P7B	neutral	20	4,9	86	71	8	8	97	P7B	-	RC 5	20	38
MULTIPACT® / 25 P8B	neutral	25	4,7	85	68	8	8	96	P8B	-	RC 6	25	50
MULTIPACT® advance // 37 P6B	neutral	6: / 16 / 15	1,1	78	59	11	11	96	P6B	-	RC 4	37	45
MULTIPACT® advance // 42 P7B	neutral	6: / 16 / 20	1,1	77	59	11	11	95	P7B	-	RC 5	42	53
MULTIPACT® advance // 47 P8B	neutral	6: / 16 / 25	1,1	76	59	11	11	94	P8B	-	RC 6	47	65
MULTIPACT® / 34 BR2-S	neutral	34	4,6	81	63	8	8	94	-	BR2-S	FB 2	34	79
MULTIPACT® / 41 BR5-S	neutral	41	4,4	79	60	7	7	93	-	BR5-S	FB 5	41	94
MULTIPACT® advance // 57 BR4-S	neutral	57	1,5	71	45	10	11	91	-	BR4-NS	FB 4	57	114
MULTIPACT® advance // 69 BR5-NS	neutral	69	1,2	69	44	10	11	90	-	BR5-NS	FB 5	69	132
MULTIPACT® advance /// 64 BR2-NS	neutral	64	0,6	68	44	13	14	93	-	BR2-NS	FB 2	64	88

The following applies to the entire MULTIPACT® product range: With thicker glass packages, the inherent colour of glass becomes increasingly noticeable, which is why the design with glass products of particularly low inherent colour is particularly suitable there. All MULTIPACT® types are also available as triple safety glass.

AKUSTEX® – SOUND INSULATION

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index $_{Ra}$	Sound Insulation R_w / C / C_{Tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
AKUSTEX® / AF 8.37	neutral	44.2	5,5	89	79	8	8	98	37 / 0 / -2	8	20
AKUSTEX® / AF 13.39	neutral	66.2	5,4	87	77	8	8	98	39 / 0 / -2	13	31
AKUSTEX® / AF 16.42	neutral	88.2	5,3	86	74	8	8	97	42 / -1 / -2	16	41
AKUSTEX® // 24.35	neutral	8 / 12 / :4	1,3	81	62	11	11	97	35 / -2 / -5	24	30
AKUSTEX® // 25.36	neutral	6 / 15 / :4	1,1	81	63	11	12	98	36 / -2 / -5	25	25
AKUSTEX® // 28.36	neutral	33.1 / 16 / :33.1	1,1	80	60	12	12	98	36 / -2 / -6	28	31
AKUSTEX® // 27.37	neutral	8 / 15 / :4	1,1	81	62	11	11	97	37 / -1 / -5	27	30
AKUSTEX® // 30.37	neutral	8 / 16 / :6	1,1	80	62	11	11	97	37 / -2 / -5	30	35
AKUSTEX® // 31.37	neutral	6 / 20 / :5	1,1	81	63	11	11	98	37 / -2 / -4	31	27
AKUSTEX® // 26.38 [9]	neutral	8 / 12 / :6	1,0	80	62	11	11	97	38 / -2 / -5	26	30
AKUSTEX® // 28.38 [9]	neutral	8 / 16 / :4	1,0	81	62	11	11	97	38 / -3 / -7	28	30
AKUSTEX® // 29.38	neutral	44.2 / 16 / :4	1,1	80	59	11	12	97	38 / -2 / -7	29	31
AKUSTEX® // 32.38	neutral	44.1 / 16 / :44.1	1,1	79	59	11	11	97	38 / -2 / -6	32	41
AKUSTEX® // 34.38	neutral	8 / 20 / :6	1,1	80	62	11	11	97	38 / -2 / -6	34	35
AKUSTEX® // AF 25.39	neutral	44.2 / 12 / :4	1,0	80	59	11	12	97	39 / -2 / -7	25	30
AKUSTEX® // AF 28.39	neutral	44.1 / 16 / :4	1,1	80	59	11	12	97	39 / -2 / -6	28	30
AKUSTEX® // 29.39 P4A	neutral	44.4 / 15 / :4	1,1	80	58	11	12	97	39 / -2 / -6	29	35
AKUSTEX® // 30.39	neutral	10 / 16 / :4	1,1	80	61	11	11	97	39 / -2 / -6	30	35
AKUSTEX® // 31.39	neutral	44.2 / 16 / :6	1,1	80	59	11	11	97	39 / -2 / -6	31	36
AKUSTEX® // 34.39	neutral	10 / 16 / :8	1,1	79	60	11	11	96	39 / -2 / -5	34	45
AKUSTEX® // 34.39	neutral	10 / 20 / :4	1,1	80	61	11	11	97	39 / -3 / -7	34	35
AKUSTEX® // AF 27.40 [9]	neutral	44.2 / 12 / :6	1,0	80	59	11	11	97	40 / -3 / -7	27	35
AKUSTEX® // AF 28.40	neutral	33.1 / 16 / :6	1,1	80	60	12	11	97	40 / -2 / -7	28	30
AKUSTEX® // AF 30.40	neutral	44.2 / 16 / :5	1,1	80	59	11	12	97	40 / -3 / -7	30	32
AKUSTEX® // 31.40	neutral	12 / 15 / :4	1,1	79	59	11	11	97	40 / -1 / -5	31	40
AKUSTEX® // 32.40	neutral	10 / 16 / :6	1,1	79	61	11	11	97	40 / -1 / -5	32	40
AKUSTEX® // 33.40	neutral	55.2 / 16 / :6	1,1	79	58	11	11	97	40 / -1 / -5	33	41
AKUSTEX® // 36.40	neutral	10 / 20 / :6	1,1	79	61	11	11	97	40 / -3 / -6	36	40
AKUSTEX® // 38.40	neutral	12 / 20 / :6	1,1	79	59	11	11	96	40 / -1 / -4	38	45
AKUSTEX® // 38.40	neutral	55.4 / 16 / :55.2	1,1	78	57	11	11	96	40 / -1 / -4	38	52
AKUSTEX® // AF 31.41	neutral	44.2 / 16 / :6	1,1	80	59	11	11	97	41 / -2 / -6	31	35
AKUSTEX® // 37.41	neutral	66.2 / 16 / :8	1,1	78	56	11	11	96	41 / -2 / -4	37	51
AKUSTEX® // AF 30.42	neutral	44.1 / 16 / :6	1,1	80	59	11	11	97	42 / -2 / -6	30	35
AKUSTEX® // AF 31.42	neutral	33.2 / 16 / :8	1,1	80	60	11	11	97	42 / -3 / -7	31	35
AKUSTEX® // AF 33.42	neutral	44.2 / 16 / :8	1,1	79	59	11	11	97	42 / -3 / -8	33	40
AKUSTEX® // 33.42	neutral	44.2 / 12 / :66.2	1,2	78	58	11	11	96	42 / -1 / -4	33	51
AKUSTEX® // AF 35.43	neutral	55.2 / 16 / :8	1,1	79	57	11	11	96	43 / -2 / -6	35	47
AKUSTEX® // AF 37.43	neutral	66.2 / 16 / :8	1,1	78	56	11	11	96	43 / -2 / -6	37	50
AKUSTEX® // 37.43	neutral	44.2 / 16 / :66.2	1,1	78	58	11	11	96	43 / -1 / -5	37	51
AKUSTEX® // 35.44	neutral	44.2 / 16 / :10	1,1	79	58	11	11	96	44 / -2 / -6	35	45
AKUSTEX® // AF 36.44	neutral	44.1 / 20 / :8	1,1	79	59	11	11	97	44 / -3 / -8	36	40
AKUSTEX® // AF 37.44	neutral	55.2 / 16 / :10	1,1	78	57	11	11	96	44 / -2 / -5	37	50
AKUSTEX® // AF 33.45	neutral	66.2 / 12 / :44.2	1,2	78	56	11	11	96	45 / -1 / -5	33	51
AKUSTEX® // AF 34.45	neutral	10 / 16 / :44.2	1,1	79	60	11	11	96	45 / -2 / -6	34	46
AKUSTEX® // AF 34.45	neutral	44.1 / 16 / :10	1,1	79	59	11	11	96	45 / -2 / -7	34	46
AKUSTEX® // AF 36.45	neutral	55.1 / 16 / :10	1,1	78	58	11	11	96	45 / -1 / -5	36	50
AKUSTEX® // AF 40.45	neutral	44.1 / 24 / :8	1,2	79	59	11	11	97	45 / -3 / -7	40	40
AKUSTEX® // AF 37.46	neutral	66.2 / 16 / :44.2	1,1	78	56	11	11	96	46 / -1 / -5	37	51
AKUSTEX® // AF 40.46	neutral	10 / 20 / :55.1	1,1	78	60	11	11	96	46 / -2 / -5	40	51
AKUSTEX® // AF 39.46	neutral	44.2 / 20 / :10	1,1	79	58	11	11	96	46 / -2 / -6	39	45
AKUSTEX® // AF 38.47	neutral	66.2 / 16 / :44.2	1,1	78	56	11	11	96	47 / -2 / -6	38	50
AKUSTEX® // AF 42.47	neutral	44.1 / 24 / :10	1,1	79	59	11	11	96	47 / -2 / -7	42	47
AKUSTEX® // AF 43.47	neutral	66.2 / 20 / :10	1,1	77	56	11	11	95	47 / -2 / -5	43	56
AKUSTEX® // AF 38.47	neutral	44.2 / 16 / :66.2	1,1	78	58	11	11	96	47 / -2 / -6	38	50
AKUSTEX® // AF 37.49	neutral	66.1 / 16 / :44.1	1,1	78	57	11	11	96	49 / -3 / -8	37	51
AKUSTEX® // AF 42.49	neutral	66.2 / 16 / :66.2	1,1	77	56	11	11	96	49 / -2 / -6	42	62
AKUSTEX® // AF 42.49	neutral	66.2 / 20 / :44.2	1,1	78	56	11	11	96	49 / -2 / -7	42	51
AKUSTEX® // AF 41.50	neutral	66.1 / 20 / :44.1	1,1	78	57	11	11	96	50 / -3 / -8	41	51
AKUSTEX® // AF 45.50	neutral	66.2 / 24 / :44.2	1,1	78	56	11	11	96	50 / -2 / -8	45	52
AKUSTEX® // AF 46.50	neutral	88.2 / 20 / :44.2	1,1	77	54	11	11	95	50 / -1 / -6	46	62
AKUSTEX® // AF 46.51	neutral	88.2 / 16 / :66.2	1,1	75	54	11	11	94	51 / -1 / -5	46	72
AKUSTEX® // AF 60.54	neutral	108.2 / 29 / :66.2	1,2	75	53	11	11	94	54 / -2 / -5	60	77
AKUSTEX® /// 44.35	neutral	8: / 12 / 4 / 12 / :8	0,7	72	51	14	14	95	35 / -2 / -7	44	50
AKUSTEX® /// 34.36 [9]	neutral	6: / 10 / 4 / 10 / :4	0,5	74	52	14	14	97	36 / -1 / -5	34	35
AKUSTEX® /// 38.36	neutral	6: / 12 / 4 / 12 / :4	0,7	74	52	14	14	97	36 / -2 / -6	38	35
AKUSTEX® /// 40.37	neutral	8: / 12 / 4 / 12 / :4	0,7	73	51	14	14	96	37 / -1 / -6	40	40
AKUSTEX® /// 42.37	neutral	6: / 16 / 4 / 12 / :4	0,6	74	52	14	14	97	37 / -2 / -6	42	36
AKUSTEX® /// 40.38	neutral	6: / 16 / 4 / 10 / :4	0,7	74	52	14	14	97	38 / -2 / -6	40	35
AKUSTEX® /// 38.38 [9]	neutral	6: / 12 / 4 / 12 / :4	0,5	74	52	14	14	97	38 / -2 / -6	38	35
AKUSTEX® /// 42.38	neutral	6: / 14 / 4 / 14 / :4	0,6	74	52	14	14	97	38 / -2 / -7	42	35
AKUSTEX® /// 44.38	neutral	8: / 12 / 4 / 16 / :4	0,6	73	51	14	14	96	38 / -2 / -7	44	41
AKUSTEX® /// 44.38	neutral	8: / 12 / 6 / 12 / :6	0,7	72	51	14	14	95	38 / -3 / -7	44	50
AKUSTEX® /// 38.39 [9]	neutral	8: / 10 / 4 / 10 / :6	0,5	72	51	14	14	96	39 / -2 / -5	38	45
AKUSTEX® /// 42.39	neutral	8: / 12 / 4 / 12 / :6	0,7	72	51	14	14	96	39 / -2 / -5	42	45
AKUSTEX® /// 42.39 [9]	neutral	8: / 12 / 4 / 12 / :6	0,5	72	51	14	14	96	39 / -1 / -5	42	45
AKUSTEX® /// 43.39	neutral	8: / 12 / 5 / 12 / :6	0,7	72	51	14	14	96	39 / -3 / -8	43	48
AKUSTEX® /// 44.39	neutral	8: / 16 / 4 / 12 / :4	0,6	73	51	14	14	96	39 / -2 / -7	44	41
AKUSTEX® /// 46.39	neutral	6: / 16 / 4 / 16 / :4	0,6	74	52	14	14	96	39 / -1 / -6	46	35
AKUSTEX® /// 46.40	neutral	8: / 12 / 4 / 16 / :6	0,6	72	51	14	14	96	40 / -2 / -5	46	46
AKUSTEX® /// 47.40	neutral	44.2: / 12 / 6 / 12 / :44.1	0,7	71	49	14	14	95	40 / -2 / -5	47	57
AKUSTEX® /// 50.40	neutral	8: / 16 / 4 / 16 / :6	0,6	72	51	14	14	96	40 / -2 / -5	50	45
AKUSTEX® /// 46.41	neutral	8: / 16 / 4 / 12 / :6	0,6	72	51	14	14	96	41 / -2 / -6	46	46
AKUSTEX® /// AF 43.41	neutral	6: / 12 / 4 / 12 / :44.2	0,7	72	52	14	14	96	41 / -2 / -6	43	45
AKUSTEX® /// AF 43.42	neutral	6: / 12 / 4 / 12 / :44.1	0,7	72	52	14	14	96	42 / -2 / -7	43	45
AKUSTEX® /// 44.42	neutral	10: / 12 / 4 / 12 / :6	0,7	72	50	14	14	95	42 / -1 / -4	44	51
AKUSTEX® /// AF 45.42	neutral	8: / 12 / 4 / 12 / :44.2	0,7	72	51	14	14	95	42 / -2 / -6	45	51
AKUSTEX® /// 46.42	neutral	10: / 12 / 6 / 12 / :6	0,7	71	50	14	14	95	42 / -2 / -5	46	56
AKUSTEX® /// 46.42 P5A	neutral	44.6: / 12 / 6 / 12 / :6	0,7	72	48	14	14	95	42 / -2 / -6	46	54
AKUSTEX® /// 48.42	neutral	10: / 12 / 4 / 16 / :6	0,6	72	50	14	14	95	42 / -1 / -4	48	51
AKUSTEX® /// 55.42	neutral	44.2: / 16 / 6 / 16 / :44.1	0,6	71	49	14	14	95	42 / -2 / -6	55	57
AKUSTEX® /// AF 43.42	neutral	6: / 12 / 4 / 12 / :44.1	0,7	72	49	14	14	96	42 / -2 / -7	43	45
AKUSTEX® /// AF 47.43	neutral	44.2: / 14 / 4 / 14 / :6	0,6	72	49	14	14	96	43 / -2 / -7	47	45
AKUSTEX® /// 46.43	neutral	10: / 12 / 4 / 12 / :8	0,7	71	50	14	14	95	43 / -2 / -5	46	55
AKUSTEX® /// AF 45.43	neutral	8: / 12 / 4 / 12 / :44.1	0,7	72	51	14	14	95	43 / -3 / -8	45	51
AKUSTEX® /// 48.43	neutral	10: / 16 / 4 / 12 / :6	0,6	72	50	14	14	95	43 / -2 / -5	48	51
AKUSTEX® /// AF 48.43	neutral	8: / 16 / 4 / 12 / :44.2	0,6	72	51	14	14	95	43 / -3 / -8	48	51
AKUSTEX® /// 54.43	neutral	44.2: / 16 / 6 / 16 / :33.2	0,6	72	49	14	14	95	43 / -2 / -7	54	52
AKUSTEX® /// AF 47.44	neutral	6: / 14 / 4 / 14 / :44.2	0,6	72	52	14	14	96	44 / -2 / -7	47	46
AKUSTEX® /// AF 53.45	neutral	44.2: / 16 / 4 / 16 / :8	0,6	72	49	14	14	95	45 / -3 / -7	53	51
AKUSTEX® /// AF 44.46 [9]	neutral	66.2: / 10 / 5 / 8 / :44.2	0,6	70	47	14	14	94	46 / -2 / -6	44	65
AKUSTEX® /// AF 55.46	neutral	66.2: / 14 / 6 / 14 / :8	0,6	70	47	14	14	94	46 / -2 / -6	55	65
AKUSTEX® /// AF 47.46	neutral	10: / 12 / 4 / 12 / :44.1	0,7	71	50	14	14	95	46 / -1 / -5	47	56
AKUSTEX® /// AF 50.46	neutral	55.1: / 12 / 6 / 12 / :44.1	0,7	71	48	14	14	95	46 / -1 / -7	50	60
AKUSTEX® /// AF 53.46	neutral	8: / 16 / 6 / 14 / :44.2	0,6	71	51	14	14	95	46 / -2 / -7	53	56
AKUSTEX® /// AF 46.46	neutral	44.2: / 12 / 4 / 12 / :44.2	0,7	72	49	14	14	95	46 / -2 / -7	46	50
AKUSTEX® /// AF 49.47	neutral	44.2: / 14 / 4 / 14 / :44.2	0,6	72	49	14	14	95	47 / -2 / -7	49	51
AKUSTEX® /// AF 50.47	neutral	10: / 16 / 4 / 12 / :44.1	0,6	71	50	14	14	95	47 / -1 / -5	50	56
AKUSTEX® /// AF 50.47 [9]	neutral	55.1: / 12 / 6 / 12 / :44.1	0,5	71	48	14	14	95	47 / -2 / -8	50	60
AKUSTEX® /// AF 55.48	neutral	10: / 16 / 6 / 12 / :55.2	0,6	70	50	14	14	94	48 / -1 / -4	55	66
AKUSTEX® /// AF 51.49	neutral	66.2: / 12 / 6 / 12 / :44.2	0,7	70	47	14	14	94	49 / -2 / -6	51	66
AKUSTEX® /// AF 57.49	neutral	10: / 19 / 4 / 15 / :44.2	0,6	71	50	14	14	95	49 / -2 / -6	57	56
AKUSTEX® /// AF 54.50	neutral	66.2: / 14 / 4 / 14 / :44.2	0,6	70	47	14	14	95	50 / -2 / -6	54	62
AKUSTEX® /// AF 55.50	neutral	66.2: / 14 / 6 / 14 / :44.2	0,6	70	47	14	14	94	50 / -2 / -7	55	65

9) The values given are based on a 95% krypton gas filling. ! The abbreviation „AF" in front of the number indicates that the glass is a sound-insulating laminated safety glass. The „spectrum adjustment values" are used to adjust the weighted sound reduction index to other noise sources, e.g. traffic noise. Sound insulation values for AKUSTEX® types with a cavity of 15 or 16 mm are the same. All AKUSTEX® double and triple structures can be supplied in the AKUSTEX® connect advance and AKUSTEX® connect uno versions.

ARDOREX® – FIRE PROTECTION

More Information

Product name	Colour impression exterior view	Glass Build-Up	EN 673	EN 410					EN ISO 717-1	Thickness	Weight
		Outer → Inner	U_g-Value	Light transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index $_{Ra}$	Sound Insulation R_w / C_{Tr}		
			W/(m²K)	%	%	%	%		dB	mm	kg/m²
ARDOREX® Arnold Fire EI 30.12 /	neutral	Laminated glass	4,9	≤ 86	≤ 71	≤ 8	≤ 8	98	43	≥ 22	≥ 40
ARDOREX® Arnold Fire EI 30.15 /	neutral	Laminated glass	4,8	≤ 86	≤ 70	≤ 8	≤ 8	98	43	≥ 25	≥ 43
ARDOREX® Arnold Fire EI 60.18 /	neutral	Laminated glass	4,6	≤ 85	≤ 69	≤ 8	≤ 8	98	44	≥ 28	≥ 46
ARDOREX® Arnold Fire EI 60.22 /	neutral	Laminated glass	4,5	≤ 85	≤ 68	≤ 8	≤ 8	98	44	≥ 32	≥ 51
ARDOREX® Arnold Fire EI 90.24 /	neutral	Laminated glass	4,4	≤ 84	≤ 67	≤ 8	≤ 8	98	46	≥ 34	≥ 54
ARDOREX® Arnold Fire EI 90.28 /	neutral	Laminated glass	4,2	≤ 84	≤ 66	≤ 8	≤ 8	98	46	≥ 38	≥ 59
ARDOREX® Arnold Fire EI 120.38 /	neutral	Laminated glass	3,9	≤ 82	≤ 64	≤ 8	≤ 8	98	47	≥ 48	≥ 70
ARDOREX® advance Arnold Fire EI 30.12 //	neutral	DGU	1,1	77	59	11	11	97	-	≥ 44	≥ 55
ARDOREX® advance Arnold Fire EI 30.15 //	neutral	DGU	1,1	77	59	11	11	97	-	≥ 47	≥ 58
ARDOREX® advance Arnold Fire EI 60.18 //	neutral	DGU	1,1	77	59	11	11	97	-	≥ 50	≥ 61
ARDOREX® advance Arnold Fire EI 60.22 //	neutral	DGU	1,1	76	59	11	11	97	-	≥ 54	≥ 69
ARDOREX® advance Arnold Fire EI 90.24 //	neutral	DGU	1,1	76	59	11	11	97	-	≥ 56	≥ 74
ARDOREX® advance Arnold Fire EI 90.28 //	neutral	DGU	1,1	75	59	11	11	97	-	≥ 60	≥ 85
ARDOREX® advance Arnold Fire EI 30.12 ///	neutral	TGU	0,7	70	50	14	14	95	-	≥ 56	≥ 65
ARDOREX® advance Arnold Fire EI 30.15 ///	neutral	TGU	0,7	70	50	14	13	96	-	≥ 59	≥ 68
ARDOREX® advance Arnold Fire EI 60.18 ///	neutral	TGU	0,7	69	50	14	13	96	-	≥ 62	≥ 71
ARDOREX® advance Arnold Fire EI 60.22 ///	neutral	TGU	0,7	69	50	14	13	96	-	≥ 66	≥ 75
ARDOREX® advance Arnold Fire EI 90.24 ///	neutral	TGU	0,7	69	50	14	13	96	-	≥ 68	≥ 77
ARDOREX® advance Arnold Fire EI 90.28 ///	neutral	TGU	0,7	68	50	14	13	96	-	≥ 72	≥ 81

ARDOREX® Branschutzgläser Arnold Fire fire protection glass has been tested and approved in metal, wood and gypsum systems. When used outside of the approval, a project-related type approval is required. Arnold Fire can be used in the following approvals: Z-19.14-1646, Z-19.14-1833, Z-19.14-2118, Z-19.14-1723, Z-19.14-1713, Z-19.14-1086, Z-19.14-1507, Z-19.14-1950, Z-19.14-2015, Z-19.14-2228, Z-6.20-1920, Z-19.14-1993, Z-6.20-2266, Z-6.20-2555, Z-19.14-2652, movable fire protection closures with CE mark in outer walls. See also ISOLAR® Compass 03/2021: Fire resistant glazing (www.isolar.de/en).

The glass build-ups listed in the ISOLAR® programme do not provide any information about the static effectiveness and the thermal breakage risk. These must be verified separately according to individual conditions and local building regulations. No liability is accepted for errors and misprints. Version 11/2024