

SILVERSTAR Architectural Glass Overview

Double Glazing 6/16/6 Coating Surface 2	Colour	Visible			NFRC 300-2014				Temperable	Bendable	Edge Deletion	ε _a ** Emissivity
		Light Transmis- sion (%)	Light Reflection ext. (%)	Light Reflection int. (%)	Energy Absorption (%)	SHGC	Shading Coeff. SC	U-Value BTU/hr.ft².F (Air)				

SILVERSTAR SUPERSELEKT T - Triple Silver Neutral Enhanced High Performance Glass (Available in annealed and toughened)

SUPERSELEKT 60/27 T	Blueish	59	15	16	38	0.25	0.29	0.23	yes	yes*	yes	0.01
SUPERSELEKT 35/14 T	Blue	35	15	22	58	0.14	0.16	0.23	yes	yes*	yes	0.01

SILVERSTAR COMBI - Double Silver Neutral High Performance Glass (Available in annealed and toughened)

COMBI SELEKT 74/42 T	Neutral	74	12	13	33	0.39	0.44	0.24	yes	yes*	yes	0.01
COMBI Neutral 70/35 T	Light Blue	70	14	15	32	0.34	0.40	0.23	yes	yes*	yes	0.01
COMBI Grey 70/35 T	Neutral Grey	70	14	14	32	0.34	0.40	0.23	yes	yes*	yes	0.01
COMBI Grey 60/33 T	Neutral Grey	60	13	14	40	0.33	0.36	0.23	yes	yes*	yes	0.01
COMBI Neutral 61/32 T	Light Blue	61	14	13	36	0.32	0.36	0.23	yes	yes*	yes	0.01
COMBI Grey 50/28 T	Neutral Grey	50	16	15	40	0.26	0.30	0.23	yes	yes*	yes	0.01
COMBI Neutral 51/28 T	Blueish	51	16	21	40	0.26	0.30	0.23	yes	yes*	yes	0.01
COMBI Neutral 40/21 T	Blue	40	10	12	63	0.21	0.24	0.23	yes	yes*	yes	0.01
COMBI Bronze 40/21 T	Champaign	40	13	14	67	0.22	0.25	0.23	yes	yes*	yes	0.01
COMBI Grey 40/22 T	Neutral Grey	40	7	16	63	0.22	0.25	0.23	yes	yes*	yes	0.01

SILVERSTAR COMBI - Single Silver High Performance Glass (Available in annealed and toughened)

COMBI Silver 32/21 T	Silver Blue	32	22	19	52	0.22	0.25	0.24	yes	yes*	yes	0.03
COMBI Neutral 30/21 T	Silver Grey	30	20	14	55	0.22	0.25	0.25	yes	yes*	yes	0.03

SILVERSTAR Low-E - Neutral Thermal Insulation Glass (coating surface 3) (Available in annealed and toughened)

SILVERSTAR EN2plus T	Neutral	80	12	11	19	0.59	0.68	0.25	yes	yes	yes	0.03
SILVERSTAR ZERO NG	Neutral	75	15	17	18	0.49	0.56	0.23	no	no	yes	0.01
SILVERSTAR ZERO T	Neutral	70	20	21	18	0.45	0.52	0.23	yes	yes	yes	0.01

Triple glazing 4/14/4/14/4 (coating surface 2 & surface 5)

SILVERSTAR EN2plus T	Neutral	74	14	14	28	0.49	0.57	0.16	yes	yes	yes	0.03
SILVERSTAR ZERO NG	Neutral	65	22	22	25	0.38	0.43	0.15	no	no	yes	0.01
SILVERSTAR ZERO T	Neutral	57	29	29	25	0.33	0.37	0.15	yes	yes	yes	0.01

LUXAR (F) - Interior & Exterior Anti-Reflective Glass (laminated glass 2x6 mm coating surface 1 & surface 4)

LUXAR	Neutral	95	0	0	22	0.74	0.86	0.89	yes	yes*	no	0.83
LUXAR F	Neutral	95	1	1	21	0.75	0.86	0.89	yes	yes*	no	0.83

SPYMIRROR CHROME - Temperable One Way Mirror (laminated glass 2x6 mm coating surface 2)

CHROME 3	Chrome	4	51	48	53	0.22	0.25	0.89	yes	yes*	no	0.83
CHROME 10	Chrome	11	40	33	56	0.27	0.31	0.89	yes	yes*	no	0.83
CHROME 20	Chrome	21	30	23	58	0.35	0.40	0.89	yes	yes*	no	0.83

* Normally yes - have to be tested by processor. Color is only indicative and for illustrative purposes and is not part of any specification as it can slightly vary. The indicated values result from insulation glass with EUROFLOAT as the basic glass. Ug-value was determined as per EN 673:2011 for vertical installation. The technical characteristics of the temperable version are adapted to the non-temperable version. They are colour-matched but not the same colour.

** Measuring ε_a while glass is hot shows ca. 0.03 - 0.04 higher emissivity.

Annealed options available subject to thermal stress analysis

SILVERSTAR Architectural Glass Overview

SILVERSTAR SUNSTOP T - Solar Control Glass (Available in annealed and toughened)

Double Glazing 6/16/6 Coating Surface 2, EN2plus Surface 3	Colour	Visible			NFRC 300-2014				Temperable	Bendable	Edge deletion	ϵ_n^{**} Emissivity
		Light Transmis- sion [%]	Light Reflection ext. [%]	Light Reflection int. [%]	Energy Absorption [%]	SHGC	Shading Coeff. SC	U-Value BTU/hr.ft ² .F (Air)				
SUNSTOP Silver 10 T	Silver	9	39	38	59	0.12	0.14	0.24	yes	yes*	no	0.83
SUNSTOP Silver 20 T	Silver	18	28	28	63	0.18	0.21	0.25	yes	yes	no	0.83
SUNSTOP Blue 30 T	Blue Silver	27	28	17	58	0.23	0.27	0.25	yes	yes	no	0.83
SUNSTOP Blue 50 T	Light Blue	44	21	14	51	0.35	0.41	0.25	yes	yes	no	0.83
SUNSTOP Neutral 50 T	Neutral Grey	46	13	17	54	0.37	0.43	0.25	yes	yes	no	0.83
SUNSTOP Neutral 70 T	Neutral Grey	63	16	17	41	0.48	0.56	0.25	yes	yes	no	0.83

SILVERSTAR WHITESHINE - Aesthetic Solar Control Glass (Available in annealed and toughened)

WHITESHINE	Silver White	56	38	35	22	0.45	0.52	0.25	no	no	no	0.83
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SILVERSTAR NightVision - Low Reflective Solar Control Glass (Available in annealed and toughened)

NightVision T	Silver Blue	32	35	7	49	0.26	0.30	0.25	yes	yes*	no	0.83
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Glas Trösch Sound Reduction dB

Glass 1 Outside	Cavity 1	Gas	Glass 2	Cavity 2	Gas	Glass 3 Inside	Frequency - Hertz						Rw (dB)	Rw + C (dB)	Rw + C _{tr} (dB)
							125	250	500	1000	2000	4000			
Double IGU (P = Acoustic Interlayer)															
6	16	Ar	6				25	20	33	42	35	47	34	32	29
4	16	Ar	4				24	18	26	40	45	39	30	29	26
8	16	Ar	8				25	25	33	40	38	51	35	33	30
8	16	Ar	6				27	24	36	40	36	50	36	35	32
10	16	Ar	10				30	31	36	35	42	54	37	36	34
10	16	Ar	8				27	31	41	41	40	52	40	38	36
4	16	Air	4.4.2				28	32	41	45	45	59	36	34	30
6	16	Ar	4.4.1				20	29	40	45	38	51	38	36	32
8	16	Ar	4.4.4				31	30	37	44	41	53	39	37	34
5.5.2	16	Ar	5.5.2				29	33	40	41	47	63	41	40	36
4.4.4	20	Ar	4.4.4				20	36	40	46	40	60	43	42	38
8	16	Ar	4.4.2 P				26	28	40	47	40	60	41	38	33
10	12	Ar	4.4.2 P				30	31	41	44	48	58	42	40	36
8	16	Ar	4.4.4 P				23	34	41	47	45	60	43	41	37
10	16	Air	6.6.1 P				27	39	44	46	47	62	45	44	40
6.6.1 P	12	Ar	4.4.1 P				27	37	44	54	55	64	47	45	41
4.4.3 P	16	Ar	6.6.4 P				26	38	46	52	54	66	48	46	41
6.6.1 P	16	Ar	4.4.1 P				26	38	46	55	56	65	49	46	41
4.4.3 P	12	Ar	6.6.3 P				32	34	49	52	53	67	48	45	41
Triple IGU (P = Acoustic Interlayer)															
4	12	Ar	4	12	Ar	4	17	22	30	46	0	42	33	31	27
6	12	Ar	4	12	Ar	4	20	24	33	47	48	50	36	34	30
8	12	Ar	4	12	Ar	6	18	30	37	46	39	55	38	37	33
10	12	Ar	4	12	Ar	6	24	34	39	44	39	51	41	39	36
6	12	Ar	4	12	Ar	4.4.1 P	22	33	39	50	48	62	42	40	36
8	12	Ar	6	12	Ar	4.4.1 P	23	32	41	50	48	64	42	40	36
8	12	Ar	6	12	Ar	5.5.1 P	26	34	43	49	48	54	45	43	39
8	12	Ar	6	12	Ar	8.8.1 P	32	35	44	49	48	70	47	45	42
4.4.1 P	12	Ar	6	12	Ar	6.6.1 P	29	37	48	54	56	65	48	46	41