



VII.

PERFORMANCE SUMMARY TABLES

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1 INTRODUCTION

The following tables give the performance of a selection of glasses.

The data is calculated using spectral measurements that conform with standards EN 410 (1998) and WIS/WINDAT. The tolerance of published data with respect to photometric properties is ± 3 points.

The U-value (formerly k-value) is calculated according to standard EN 673. The emissivity measurement complies with standards EN 673 (Annex A) and EN 12898. The U-value tolerance is $\pm 0.1\text{W/m}^2\cdot\text{K}$.

This document is not an evaluation of the risk of glass breakage due to thermal stress. For toughened glass: the risk of spontaneous breakage due to Nickel-Sulfide is not covered by AGC Flat Glass Europe. The Heat Soak Test is available on request.

Specifications, technical and other data are based on information available at the time of preparation of this document and are subject to change without notice. AGC Flat Glass Europe can not be held responsible for any deviation between the data introduced and the conditions on site. This document is only informative and does not in any way imply that an order has been accepted by AGC Flat Glass Europe.

The definitions of abbreviations and standards given in the tables are as follows:

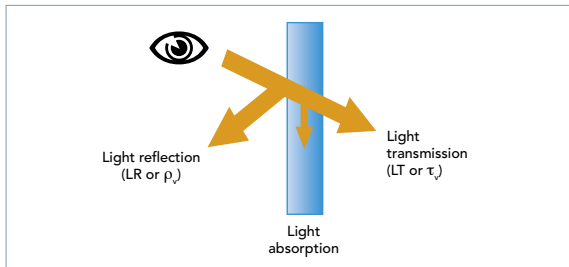
	Abreviation	Symbol	Definition	Standard	
Light factors	LT	τ_v	Light transmission (%)	EN 410	
	LR	ρ_v	Light reflection external (%)	EN 410	
	LR _i	ρ_{vi}	Light reflection internal (%)	EN 410	
	RD65	R _a	Colour rendering	EN 410	
	DRT	τ_e	Direct energy transmission (%)	EN 410	
Energy factors	ER	ρ_e	Energy reflection (%)	EN 410	
	EA _{tot}	α_e	Total energy absorption (%)	EN 410	
	EA ₁	$\alpha_e(1)$	Energy absorption of the glass in double glazing or triple glazing (see next page)	EN 410	
	EA ₂	$\alpha_e(2)$		EN 410	
	EA ₃	$\alpha_e(3)$		EN 410	
		g or SF		Solar factor (%)	EN 410
		SC		Shading coefficient (g/87)	EN 410
	UV _{tr}		UV transmission (%)	EN 410	
Thermal performances	U/U _g		Thermal transmission coefficient (W/m ² .K)	EN 673	
Acoustic performances	R _w		Sound reduction index (dB)	EN ISO 717-1	
	C		Pink noise adaptation factor (dB)	EN ISO 717-1	
	C _{tr}		Traffic noise adaptation factor (dB)	EN ISO 717-1	
Fire			Resistance to fire	EN 13501-2	
			Reaction to fire	EN 13501-1	
Safety*			Impact resistance	EN 12600	
			Burglary resistance	EN 356	
			Bullet resistance	EN 1063	

NPD = No Performance Determined.

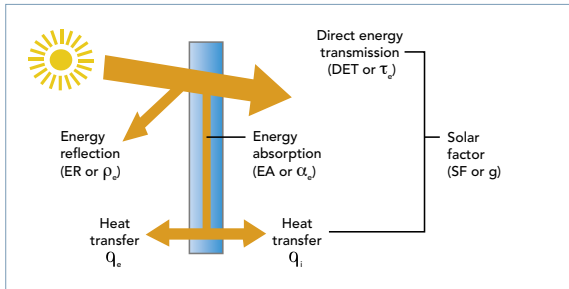
* Formerly k-value.

SPECTROPHOTOMETRIC AND ENERGY MAGNITUDE

Light factors

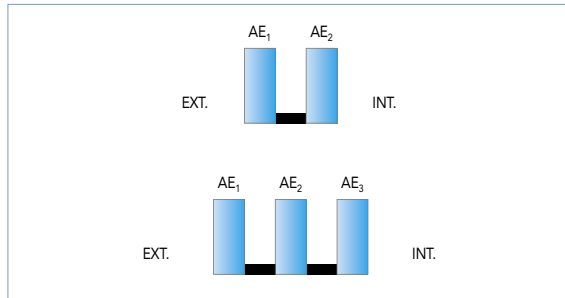


Energy factors



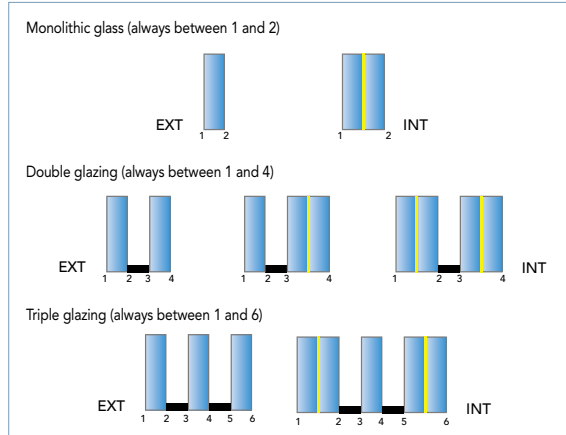
DEFINITION OF GLASS FACES

Numbering of energy performance (absorption)



2 SUMMARY TABLES

Numbering of glass faces and position of coatings



2.1 PLANIBEL CLEAR, CLEARVISION, LINEA AZZURRA

	Composition (mm)	Light properties					Energy Properties							Acoustic R_w (C; C_{tr})	Safety			Fire	
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	SF (%)	SC	UV _{tr}	U _g W/(m ² ·K)	Impact		Burglary	Bullet	Reaction	Resistance	
Planibel Clear	3	90	8	8	99	86	8	6	88	1.01	67	5.8	29 (-2; -5)	NPD	NPD	NPD	A1	NPD	
	4	90	8	8	99	86	8	8	87	1.00	63	5.8	30 (-2; -4)	NPD	NPD	NPD	A1	NPD	
	5	89	8	8	99	83	7	10	85	0.98	59	5.8	30 (-1; -2)	NPD	NPD	NPD	A1	NPD	
	6	89	8	8	99	81	7	12	84	0.97	56	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD	
	8	88	8	8	98	78	7	15	82	0.94	51	5.7	32 (-1; -2)	NPD	NPD	NPD	A1	NPD	
	10	87	8	8	97	75	7	18	80	0.92	47	5.6	34 (-2; -3)	NPD	NPD	NPD	A1	NPD	
	12	86	8	8	97	72	7	21	78	0.90	44	5.6	35 (-2; -3)	NPD	NPD	NPD	A1	NPD	
Planibel Clearvision	4	92	8	8	100	91	8	1	91	1.05	84	5.8	30 (-2; -4)	NPD	NPD	NPD	A1	NPD	
	5	91	8	8	100	90	8	2	91	1.05	83	5.8	30 (-1; -2)	NPD	NPD	NPD	A1	NPD	
	6	91	8	8	100	90	8	2	90	1.03	81	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD	
	8	91	8	8	100	89	8	3	90	1.03	79	5.7	32 (-1; -2)	NPD	NPD	NPD	A1	NPD	
	10	91	8	8	100	89	8	3	90	1.03	76	5.6	34 (-2; -3)	NPD	NPD	NPD	A1	NPD	
Planibel Linea Azzurra	8	87	8	8	96	73	7	20	78	0.90	49	5.7	32 (-1; -2)	NPD	NPD	NPD	A1	NPD	
	10	86	8	8	95	69	7	24	75	0.86	46	5.6	34 (-2; -3)	NPD	NPD	NPD	A1	NPD	
	12	85	8	8	95	66	6	28	73	0.84	43	5.6	35 (-2; -3)	NPD	NPD	NPD	A1	NPD	
	15	83	8	8	93	61	6	33	70	0.80	39	5.5	NPD	NPD	NPD	A1	NPD		
	19	81	7	7	92	56	6	38	66	0.76	35	5.4	NPD	NPD	NPD	A1	NPD		
	25	78	7	7	89	50	6	44	61	0.70	30	5.2	NPD	NPD	NPD	A1	NPD		

NPD = No Performance Determined.

2.2 PLANIBEL COLOURED

	Light properties				Energy Properties									Acoustic R_w (C; C_{tr})	Safety			Fire	
	LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC	UV _{tr}	U _g W/(m ² ·K)		Impact	Burglary	Bullet	Reaction	Resistance
6 mm Planibel																			
Green	73	7	7	90	44	5	51			57	0.66	16	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Bronze	51	6	6	92	50	5	45			62	0.71	15	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Grey	44	5	5	96	46	5	49			59	0.68	17	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Azur	73	7	7	88	49	6	45			61	0.70	30	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Dark Blue	57	6	6	81	44	5	51			57	0.66	25	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
PrivaBlue	35	5	5	61	20	5	75			40	0.46	13	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
6 mm Planibel coloured - air 16 - 4 mm Planibel clear																			
Green	66	11	14	89	39	7	54	52	2	46	0.53	14	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Bronze	46	8	12	93	43	7	50	46	4	51	0.59	13	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Grey	40	7	12	95	40	7	53	50	3	48	0.55	15	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Azur	66	11	14	87	43	8	49	46	3	50	0.57	25	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Dark Blue	52	9	13	80	36	7	57	56	1	44	0.51	20	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
PrivaBlue	31	6	12	61	18	5	77	76	1	28	0.32	11	2.7	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD

2.3 DGU with PLANIBEL

	Look	Light properties				Energy Properties									Acoustic R_w (C; C_{tr})	Safety			Fire	
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC	UV _{tr}	U _g W/(m ² ·K)		Impact	Burglary	Bullet	Reaction	Resistance
4 mm Planibel clear - 16 air - 4 mm Planibel clear																				
	neutral	81	15	15	98	72	13	15	9	6	77	0.89	47	2.8	29 (-1; -4)	NPD	NPD	NPD	NPD	NPD

2.4 PLANIBEL G and G FAST

	Look	Light properties					Energy Properties							Acoustic R_w (C; C_p)	Safety			Fire		
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC	UV _r		U _g W/(m ² ·K)	Impact	Burglary	Bullet	Reaction	Resistance
4 mm Planibel G or G fasT #2																				
G	neutral	82	11	12	99	70	11	19			73	0.84	45	3.7	30 (-; -4)	NPD	NPD	NPD	A1	NPD
G fasT	neutral	81	11	12	99	69	11	20			73	0.84	46	3.7	30 (-; -4)	NPD	NPD	NPD	A1	NPD
4 mm Planibel clear - 16 Ar (90%) - 4 mm Planibel G or G fasT #3																				
G	neutral	74	17	16	99	60	16	24	9	15	73	0.84	35	1.5	29 (-; -4)	NPD	NPD	NPD	NPD	NPD
G fasT	neutral	74	18	17	99	60	17	23	9	14	72	0.83	36	1.5	29 (-; -4)	NPD	NPD	NPD	NPD	NPD

2.5 TOP^{N+} and TOP^{NT}

	Look	Light properties					Energy Properties							Acoustic R_w (C; C_p)	Safety			Fire		
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC	UV _r		U _g W/(m ² ·K)	Impact	Burglary	Bullet	Reaction	Resistance
4 mm Planibel clear - 16 Ar (90%) - 4 mm Planibel Top^{N+} or Top^{NT} #3																				
Top ^{N+}	neutral	78	13	14	98	52	28	20	11	9	61	0.70	21	1.1	29 (-; -4)	NPD	NPD	NPD	NPD	NPD
Top ^{NT}	neutral	79	13	12	99	58	22	20	10	10	67	0.77	28	1.2	29 (-; -4)	NPD	NPD	NPD	NPD	NPD

2.6 ENERGY^N and ^{NT}

	Look	Light properties			Energy Properties									Acoustic		Safety			Fire	
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC	UV _r	U _g W/(m ² .K)	R _w (C; C _{tr})	Impact	Burglary	Bullet	Reaction	Resistance
4 or 6 mm Planibel Energy^N #2 - 16 Ar (90%) - 4 mm Planibel clear																				
4-16 Ar (90%)-4	neutral	71	12	13	97	39	31	30	28	2	42	0.48	7	1.1	29 (-1; -4)	NPD	NPD	NPD	NPD	NPD
6-16 Ar (90%)-4	neutral	70	12	13	96	38	28	34	32	2	41	0.47	7	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
4 or 6 mm Planibel Energy^{NT} #2 - 16 Ar (90%) - 4 mm Planibel clear																				
4-16 Ar (90%)-4	neutral	75	13	14	98	42	32	26	24	2	45	0.52	14	1.1	29 (-1; -4)	NPD	NPD	NPD	NPD	NPD
6-16 Ar (90%)-4	neutral	74	13	14	97	41	29	30	28	2	44	0.51	13	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD

2.7 TRIPLE GLAZING

Look	Light properties			Energy Properties									Acoustic		Safety			Fire		
	LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	EA ₃ (%)	SF (%)	SC	UV _r	U _g W/(m ² .K)	R _w (C; C _{tr})	Impact	Burglary	Bullet	Reaction	Resistance
4 mm Top^{N+} #2 - 10 Ar (90%) - 4 - 10 Ar (90%) - 4 mm Top^{N+} #5																				
0,8	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.8	NPD	NPD	NPD	NPD	NPD	NPD
4 mm Top^{N+} #2 - 12 Ar (90%) - 4 - 12 Ar (90%) - 4 mm Top^{N+} #5																				
0,7	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.7	NPD	NPD	NPD	NPD	NPD	NPD
4 mm Top^{N+} #2 - 8 Kr (90%) - 4 - 8 Kr (90%) - 4 mm Top^{N+} #5																				
0,7Kr	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.7	NPD	NPD	NPD	NPD	NPD	NPD
4 mm Top^{N+} #2 - 15 Ar (90%) - 4 - 15 Ar (90%) - 4 mm Top^{N+} #5																				
0,6	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.6	NPD	NPD	NPD	NPD	NPD	NPD
4 mm Top^{N+} #2 - 10 Kr (90%) - 4 - 10 Kr (90%) - 4 mm Top^{N+} #5																				
0,6Kr	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.6	NPD	NPD	NPD	NPD	NPD	NPD
4 mm Top^{N+} #2 - 12 Kr (90%) - 4 - 12 Kr (90%) - 4 mm Top^{N+} #5																				
0,5Kr	70	18	18	97	41	34	25	18	1	6	48	0.55	10	0.5	NPD	NPD	NPD	NPD	NPD	NPD

2.8 STOPSOL

Look	Light properties	Energy properties										Acoustic	Safety			Fire					
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)		SC	UV _r	U _g W/(m ² ·K)	R _w (C; C _w)	Impact	Burglary	Bullet	Reaction	Resistance
6 mm Stopsol #1 or #2																					
Classic clear (#1)	Yellowish silver	38	34	27	91	46	29	25				53	0.61	17	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic clear (#2)	Clear metallic	38	27	34	91	46	21	33				55	0.63	17	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic bronze (#1)	Yellowish silver	22	34	12	83	29	28	43				40	0.46	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic bronze (#2)	Metallic bronze	22	12	34	83	29	11	60				45	0.52	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic green (#1)	Silvered	31	34	20	94	22	28	50				35	0.40	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic green (#2)	Metallic green	31	20	34	94	22	11	67				39	0.45	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic grey (#1)	Silvered	19	34	10	92	27	28	45				38	0.44	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Classic grey (#2)	Metallic grey	19	10	34	92	27	10	63				43	0.49	5	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver clear (#1)	Brilliant silver	63	35	34	95	64	27	9				66	0.76	35	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver clear (#2)	Slightly bluish silver	63	34	35	95	64	24	12				67	0.77	35	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver green (#1)	Steel silver	52	34	25	93	33	26	41				43	0.49	10	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver green (#2)	Brilliant green	52	25	34	93	33	14	53				47	0.54	10	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver grey (#1)	Steel silver	31	34	12	95	37	26	37				46	0.53	11	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver grey (#2)	Metallic steel	31	12	34	95	37	10	53				50	0.57	11	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver Dark Blue (#1)	Silvered blue	41	34	17	85	30	26	44				41	0.47	15	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Supersilver Dark Blue (#2)	Brilliant blue	41	17	34	85	30	12	58				45	0.52	15	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Silverlight PrivaBlue (#1)	Silvered blue	27	24	8	64	16	20	64				32	0.37	7	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Silverlight PrivaBlue (#2)	Intense blue	27	8	24	64	16	7	77				36	0.41	7	5.7	31 (-2; -3)	NPD	NPD	NPD	A1	NPD
6 mm Stopsol #1 or #2 - 16 Ar (90%) - 4 mm Top[®] #3																					
Classic clear (#1)	Yellowish silver	34	35	28	92	25	40	35	29	6	31	0.36	6	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic clear (#2)	Metallic clear	34	28	34	92	26	33	41	36	5	32	0.37	6	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic bronze (#1)	Yellowish silver	19	34	16	83	15	33	52	48	4	20	0.23	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic bronze (#2)	Metallic bronze	19	12	34	84	16	16	68	65	3	22	0.25	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic green (#1)	Silvered	27	35	23	93	14	29	57	55	2	18	0.21	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic green (#2)	Metallic green	27	20	34	93	14	13	73	71	2	20	0.23	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic grey (#1)	Silvered	16	34	15	92	14	32	54	51	3	19	0.22	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Classic grey (#2)	Metallic grey	17	10	34	92	14	17	72	69	3	20	0.23	2	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver clear (#1)	Brilliant silver	56	37	34	96	39	43	18	12	6	45	0.52	14	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver clear (#2)	Slightly bluish silver	56	37	35	96	39	40	21	15	6	46	0.53	14	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver green (#1)	Steel silver	46	36	27	92	23	29	48	46	2	28	0.32	4	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver green (#2)	Brilliant green	46	26	34	92	23	16	61	58	3	29	0.33	5	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver grey (#1)	Steel silvered	26	35	16	95	19	31	50	46	4	25	0.29	4	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver grey (#2)	Metallic steel	26	12	34	95	20	15	65	62	3	26	0.30	4	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver Dark Blue (#1)	Silvered blue	36	35	21	84	20	28	52	49	3	25	0.29	6	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Supersilver Dark Blue (#2)	Brilliant blue	36	18	34	84	21	14	65	62	3	26	0.30	7	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Silverlight PrivaBlue (#1)	Silvered blue	24	25	13	63	12	20	68	67	1	16	0.18	3	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	
Silverlight PrivaBlue (#2)	Intense blue	24	8	26	63	12	7	81	80	1	17	0.20	4	1.1	34 (-1; -4)	NPD	NPD	NPD	NPD	NPD	

2.9 SUNERGY

	Look	Light properties					Energy Properties						Acoustic R_w (C; C_w)	Safety			Fire						
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC		UV _r	U _g W/(m ² ·K)	Impact	Burglary	Bullet	Reaction	Resistance			
6 mm Sunergy																							
Clear (#2)	clear	68	9	10	97	54	9	37					61	0.70	38	4.1		31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Green (#2)	green	56	7	10	88	31	6	63					42	0.48	12	4.1		31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Azur (#2)	azur	56	7	10	88	34	6	60					45	0.52	20	4.1		31 (-2; -3)	NPD	NPD	NPD	A1	NPD
Dark Blue (#2)	dark blue	40	6	9	78	26	6	68					38	0.44	16	4.1		31 (-2; -3)	NPD	NPD	NPD	A1	NPD
6 mm Sunergy #2 - 16 Ar (90%) - 4 mm with Top[®] #3																							
Clear (#2)	clear	59	11	15	96	37	15	48	42	6	44	0.51	14	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Green (#2)	green	49	9	15	87	24	7	69	66	3	29	0.33	5	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Azur (#2)	azur	49	9	15	86	26	8	66	63	3	32	0.37	9	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Dark Blue (#2)	dark blue	35	7	15	77	19	7	74	71	3	25	0.29	7	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD

2.10 STOPRAY

	Look	Light properties					Energy Properties						Acoustic R_w (C; C_w)	Safety			Fire						
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	EA ₁ (%)	EA ₂ (%)	SF (%)	SC		UV _r	U _g W/(m ² ·K)	Impact	Burglary	Bullet	Reaction	Resistance			
6 mm Stopray #2 - 16 Ar (90%) - 4 mm Planibel clear																							
Safir 61/32	neutral	61	15	19	95	32	32	36	35	1	35	0.40	6	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Vision-50	neutral	50	19	22	93	25	33	42	41	1	28	0.32	4	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Vision-50T	neutral	50	20	23	97	28	35	37	36	1	31	0.36	10	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Galaxy 40/21 on Clearvision	neutral	41	17	20	87	18	30	43	51	1	22	0.25	4	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Silver 43/25	silvered	43	47	43	95	24	49	27	26	1	27	0.31	7	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Indigo 48 T	blue	48	8	12	79	25	9	66	66	0	29	0.33	7	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Lime 61 T	green	61	10	13	88	28	9	63	62	1	32	0.37	5	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD
Titanium 37 T	grey	36	6	12	95	22	14	64	63	1	26	0.30	5	1.1				34 (-1; -4)	NPD	NPD	NPD	NPD	NPD

2.11 STRATOPHONE

	Light properties		Energy Properties			U_p W/(m ² ·K)		Acoustic	Safety			Thickness (mm)	Weight (Kg/m ²)
	TL (%)	RL (%)	AE (%)	FS (%)	SC			R_w (C; C _v)	Impact	Burglary	Balles		
33.1	89	8	17	80	0,92	5,7		35 (-1; -3)	2B2	NPD	NPD	6	15
44.1	88	8	20	78	0,90	5,6		37 (0; -2)	2B2	NPD	NPD	9	21
55.1	87	8	23	76	0,87	5,6		38 (-1; -3)	1B1	NPD	NPD	10	26
66.1	86	8	25	74	0,85	5,5		40 (-1; -3)	1B1	NPD	NPD	12	31
33.2	89	8	19	79	0,91	5,6		36 (0; -3)	1B1	P1A-P2A	NPD	7	16
44.2	89	8	21	77	0,89	5,6		37 (0; -2)	1B1	P1A-P2A	NPD	9	21
55.2	87	8	24	75	0,86	5,5		39 (-1; -3)	1B1	P1A-P2A	NPD	11	26
66.2	86	8	27	73	0,84	5,4		40 (-1; -3)	1B1	P1A-P2A	NPD	13	31
88.2	84	8	32	70	0,80	5,3		41 (-1; -3)	1B1	P1A-P2A	NPD	17	41
33.4	89	8	21	78	0,90	5,5		NPD	1B1	P3A-P4A	NPD	8	17
44.4	88	8	23	76	0,87	5,5		NPD	1B1	P3A-P4A	NPD	10	22

2.12 STRATOBEL ACCIDENT PREVENTION AND ANTI-BANDIT

	Light properties		Energy properties			U _g W/(m ² ·K)		Acoustic	Safety			Thickness (mm)	Weight (Kg/m ²)
	LT (%)	LR (%)	EA (%)	SF (%)	SC			R _w (C; C _v)	Impact	Burglary	Bullet		
33.1	89	8	17	80	0.92	5.7		32 (-1; -3)	2B2	NPD	NPD	6	15
44.1	88	8	20	78	0.9	5.6		34 (-1; -2)	2B2	NPD	NPD	9	21
55.1	87	8	23	76	0.87	5.6		35 (-1; -3)	1B1	NPD	NPD	10	26
66.1	86	8	25	74	0.85	5.5		NPD	1B1	NPD	NPD	12	31
33.2	89	8	19	79	0.91	5.6		33 (-1; -4)	1B1	P1A - P2A	NPD	7	16
44.2	88	8	21	77	0.89	5.6		35 (-1; -3)	1B1	P1A - P2A	NPD	9	21
55.2	87	8	24	75	0.86	5.5		NPD	1B1	P1A - P2A	NPD	11	26
66.2	86	8	27	73	0.84	5.4		36 (-1; -3)	1B1	P1A - P2A	NPD	13	31
88.2	84	8	32	70	0.80	5.3		39 (-1; -3)	1B1	P1A - P2A	NPD	17	41
1010.2	82	7	36	67	0.77	5.2		40 (-1; -3)	1B1	P1A - P2A	NPD	21	51
1212.2	80	7	40	65	0.75	5.1		42 (-0; -3)	1B1	P1A - P2A	NPD	25	61
33.4	89	8	21	78	0.90	5.5		NPD	1B1	P3A - P4A	NPD	8	17
44.4	88	8	23	76	0.87	5.5		NPD	1B1	P3A - P4A	NPD	10	22
55.4	87	8	26	74	0.85	5.4		36 (-1; -4)	1B1	P3A - P4A	NPD	11	24
66.4	86	8	29	72	0.83	5.3		37 (-1; -4)	1B1	P3A - P4A	NPD	14	31
44.6	68	8	24	75	0.86	5.4		35 (-1; -3)	1B1	P5A	NPD	10	22
66.6	86	8	30	72	0.83	5.2		NPD	1B1	P5A	NPD	14	33
502-1	86	8	31	71	0.82	5.1		NPD	1B1	P6B	NPD	15	33
502-2	86	8	31	71	0.82	5.1		NPD	1B1	P6B	NPD	15	33
802-2	84	8	34	69	0.79	5.1		NPD	1B1	P6B	NPD	18	42
303-3	82	7	39	65	0.75	5.0		NPD	1B1	P7B	NPD	23	53
103-3	84	8	36	67	0.77	4.9		NPD	1B1	P7B	NPD	21	45
004-3	79	7	44	61	0.70	4.7		NPD	1B1	P7B	NPD	30	69
504-4	78	7	48	59	0.68	4.5		NPD	1B1	P8B	BR5-S/SG2-S	35	31
803-5	80	7	43	62	0.71	4.8		NPD	1B1	P8B	NPD	28	64

2.13 STRATOBEL BULLET-PROOF

	Light properties		Energy properties			U _p W _p (m ² ·K)		Acoustic	Safety			Thickness (mm)	Weight (Kg/m ²)
	LT (%)	LR (%)	EA (%)	SF (%)	SC			R _w (C; C _v)	Impact	Burglary	Bullet		
BR1-S 402-1	86	8	29	72	0.83	5.3		NPD	1B1	NPD	BR1-S	14	32
BR1-NS 802-5	84	6	34	69	0.79	5.2		NPD	1B1	NPD	BR1-NS	18	42
BR2-S 003-1	83	8	36	67	0.77	5.1		NPD	1B1	NPD	BR2-S	20	47
BR2-NS 104-1	78	7	45	60	0.69	4.8		NPD	1B1	NPD	BR2-NS	31	73
BR3-S 603-1	80	7	42	63	0.72	4.9		NPD	1B1	NPD	BR3-S	26	63
BR3-NS 704-3	75	7	52	56	0.64	4.6		NPD	1B1	NPD	BR3-NS	37	89
BR4-S 304-6	78	7	46	60	0.69	4.6		NPD	1B1	NPD	BR4-S	33	80
BR4-NS 1207-1	65	12	58	49	0.56	2.6		NPD	1B1/1B1	NPD	BR4-NS	61	125
BR5-S 504-4	78	7	48	59	0.68	4.5		NPD	1B1	P8B	BR5-S/SG2-NS	35	81
BR5-NS 806-2	69	7	59	51	0.59	4.3		NPD	1B1	NPD	BR5-NS	58	141
BR5-NS 4207-1	65	12	59	45	0.57	2.5		NPD	1B1/1B1	NPD	BR5-NS	64	127
BR6-S 1207-1	65	12	58	49	0.56	2.6		NPD	1B1/1B1	NPD	BR6-S	61	125
BR6-NS 408-1	61	8	67	45	0.52	3.9		NPD	1B1	NPD	BR6-NS	74	179
BR6-NS 3209-1	58	11	66	43	0.49	2.4		NPD	1B1/1B1	NPD	BR6-NS	83	176
BR7-NS 009-1	62	6	68	45	0.52	3.6		NPD	1B1	NPD	BR7-NS	80	188
BR7-S 6208-1	61	11	63	46	0.53	2.4		NPD	1B1/1B1	NPD	BR7-S	76	157
BR7-NS 8209-1	57	11	68	40	0.56	2.3		NPD	1B1/1B1	NPD	BR7-NS	88	188
SG1-S 304-6	78	7	46	60	0.69	4.6		NPD	1B1	NPD	SG1-S	33	76
SG1-NS 9207-1	62	12	61	46	0.53	2.5		NPD	1B1/1B1	NPD	SG1-NS	61	145
SG2-S 504-4	78	7	48	59	0.68	4.5		NPD	1B1	P8B	SG2-S	35	81
SG2-NS 9208-1	61	11	65	44	0.51	2.3		NPD	1B1/1B1	NPD	SG2-NS/BR5-S	79	162

2.14 MATELUX

	Thickness	Light properties					Energy Properties					U_g W/(m ² ·K)	Acoustic R_w (C; C _v)	Safety			Fire	
		LT (%)	LR (%)	Int LR (%)	RD65	DET (%)	ER (%)	Tot EA (%)	SF (%)	SC	UV _t			Impact	Burglary	Bullet	Reaction	Resistance
Matelux Clear	3	90	7	8	99	86	7	7	88	1.01	65	5.8	29 (-2, -5)	NPD	NPD	NPD	A1	NPD
	4	90	7	8	99	84	7	9	87	1.00	61	5.8	30 (-2, -4)	NPD	NPD	NPD	A1	NPD
	5	89	7	8	99	83	7	10	86	0.99	57	5.8	30 (-1, -2)	NPD	NPD	NPD	A1	NPD
	6	89	7	8	99	82	7	11	85	0.98	54	5.7	31 (-2, -3)	NPD	NPD	NPD	A1	NPD
	8	88	7	8	98	79	6	15	83	0.95	49	5.7	32 (-1, -2)	NPD	NPD	NPD	A1	NPD
	10	87	7	8	98	76	6	18	81	0.93	45	5.6	34 (-2, -3)	NPD	NPD	NPD	A1	NPD
	12	86	7	8	97	74	6	20	79	0.91	42	5.6	35 (-2, -3)	NPD	NPD	NPD	A1	NPD
Matelux Clearvision	3	91	7	8	100	90	7	3	91	1.03	85	5.8	29 (-2, -5)	NPD	NPD	NPD	A1	NPD
	4	91	7	8	100	89	7	3	90	1.03	83	5.8	30 (-2, -4)	NPD	NPD	NPD	A1	NPD
	5	91	7	8	100	89	7	4	90	1.03	82	5.7	30 (-1, -2)	NPD	NPD	NPD	A1	NPD
	6	91	7	8	100	89	7	4	90	1.03	81	5.7	31 (-2, -3)	NPD	NPD	NPD	A1	NPD
	8	91	7	8	100	88	7	5	89	1.02	79	5.7	32 (-1, -2)	NPD	NPD	NPD	A1	NPD
	10	91	7	8	99	88	7	5	89	1.02	77	5.6	34 (-2, -3)	NPD	NPD	NPD	A1	NPD
Matelux Linea Azzurra	15	83	7	8	93	61	6	33	69	0.79	39	5.5	NPD	NPD	NPD	NPD	A1	NPD
	19	81	7	8	91	56	5	39	66	0.76	35	5.4	NPD	NPD	NPD	NPD	A1	NPD