


 = tests with Kalashnikov weapon or equivalent	Norms		Total thickness	Weight	Light properties with Clearlite		Energy properties with Clearlite		
	Break-in	Bullets			LT	LR	EA	Ug	SF
	EN 356	EN 1063	mm	kg/m ²	%	%	%	W/(m ² K)	%
Therm. Strat. Security Bullet 9205-1-B ⁽¹⁾	P6B	BR3-NS	49	93	72	11	46	1.4 (1)	48
Therm. Strat. Security Bullet 1205-1-B ⁽¹⁾	P5A	BR4-S	41	70	75	12	36	1.4 (1)	53
Therm. Strat. Security Bullet 2207-1-B ⁽¹⁾	P6B	BR4-S / SG1-S	62	113	70	11	43	1.1 (1)	52
Therm. Strat. Security Bullet 7206-1-B ⁽¹⁾	P6B	BR4-NS	57	113	70	10	50	1.4 (1)	46
Therm. Strat. Security Bullet 1207-1-B ⁽¹⁾	P4A	BR4-NS / BR6-S	62	125	68	11	51	1.4 (1)	48
Therm. Strat. Security Bullet 4207-1-B ⁽¹⁾ 	P8B	BR5-NS	64	127	68	10	53	1.4 (1)	45
Therm. Strat. Security Bullet 7207-1-B ⁽¹⁾	P6B	BR5-NS / SG1-NS	67	124	68	11	45	1.1 (1)	52
Therm. Strat. Security Bullet 3206-1-B ⁽¹⁾	P5A	BR6-S	53	100	71	11	44	1.3 (1)	50
Therm. Strat. Security Bullet 3209-1-B	P6B	BR6-NS	83	177	63	12	57	2.4	50
Therm. Strat. Security Bullet 6208-1-B 	P8B	BR7-S	76	157	65	12	54	2.4	52
Therm. Strat. Security Bullet 8209-1-B 	P8B	BR7-NS / SG2-NS	89	188	62	11	59	2.3	47

Thin version : for thin and light solutions

Therm. Strat. Security Bullet VIX55 ⁽¹⁾	P6B	BR4-NS / SG1-NS	55	97	72	11	41	1.1 (1)	52
Therm. Strat. Security Bullet VIX61 ⁽¹⁾	P6B	BR5-NS / SG2-NS	61	109	70	11	42	1.1 (1)	53
Therm. Strat. Security Bullet VIX66 ⁽¹⁾	P7B	BR6-NS / SG2-NS	65	117	69	11	43	1.0 (1)	53

⁽¹⁾ These products include the low-e coating "Iplus Top 1.1" and a filling with Argon 90%.
On request, the thermal insulation can be improved down to a Ug value of 1.0 W/(m²K). The usage of other coatings is also possible.

STRATOPHONE — HIGH LEVEL ACOUSTIC PERFORMANCE

	Norms		Total thickness	Weight	Max size Availability	Light & Energy properties		Acoustics ⁽²⁾
	Impact	Break-in				LT	EA	Rw (C; Ctr)
	EN 12600	EN 356	mm	kg/m ²	cm x cm	%	%	dB
Stratophone 22.1 st (2x Planibel Clear)	1B1	NPD	4	10	600 x 321	90	14	33 (-2; -5)
Stratophone 33.1 st (2x Planibel Clearlite)	1B1	NPD	6	15	600 x 321	90	15	35 (-1; -3)
Stratophone 44.1 st (2x Planibel Clearlite)	1B1	NPD	8	20	600 x 321	89	17	37 (-0; -2)
Stratophone 55.1 st (2x Planibel Clearlite)	1B1	NPD	10	25	600 x 321	88	18	38 (-1; -3)
Stratophone 66.1 st (2x Planibel Clearlite)	1B1	NPD	12	30	600 x 321	87	20	40 (-1; -3)
Stratophone 22.2 st (2x Planibel Clear)	1B1	NPD	5	11	600 x 321	90	16	33 (-1; -4)
Stratophone 33.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	7	16	600 x 321	89	16	36 (-0; -3)
Stratophone 44.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	9	21	600 x 321	89	17	37 (-0; -2)
Stratophone 55.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	11	26	600 x 321	88	19	39 (-1; -3)
Stratophone 66.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	13	31	600 x 321	87	21	40 (-1; -3)
Stratophone 88.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	17	41	600 x 321	86	24	41 (-1; -2)
Stratophone 1212.2 st (2x Planibel Clearlite)	1B1	P1A-P2A	25	61	600 x 321	83	31	43 (-1; -4)
Stratophone 44.4 st (2x Planibel Clearlite)	1B1	P3A-P4A	10	22	600 x 321	89	19	37 (-0; -3)
Stratophone 44.6 st (2x Planibel Clearlite)	1B1	P5A	10	22	600 x 321	89	21	38 (-1; -3)

NPD = No Performance Determined.

⁽²⁾ These sound reduction indexes correspond to glazings which are 1,23 by 1,48m according to EN ISO 10140-3 and are tested in laboratory conditions.
The accuracy of the given indexes is not better than +/- 1dB. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources, etc.

9000436 ENG - 06/17



Performances
Laminated Safety Glass
 STRATOBEL, STRATOBEL SECURITY
 STRATOPHONE

STRATOBEL — PROTECTION FROM INJURIES AND FALLS

	Norms		Total thickness mm	Weight kg/m ²	Max size Availability cm x cm	Light & Energy properties		Acoustics ⁽²⁾ Rw (C; Ctr) dB
	Impact	Break-in				LT	EA	
	EN 12600	EN 356				%	%	
Stratobel 22.1 (2x Planibel Clear)	2B2	NPD	4	10	600 x 321	90	14	NPD
Stratobel 33.1 (2x Planibel Clearlite)	2B2	NPD	6	15	600 x 321	90	14	32 (-1; -3)
Stratobel 44.1 (2x Planibel Clearlite)	2B2	NPD	8	20	600 x 321	89	16	34 (-1; -2)
Stratobel 55.1 (2x Planibel Clearlite)	1B1	NPD	10	25	600 x 321	88	18	35 (-1; -3)
Stratobel 66.1 (2x Planibel Clearlite)	1B1	NPD	12	30	600 x 321	87	20	NPD
Stratobel 88.1 (2x Planibel Clearlite)	1B1	NPD	16	40	600 x 321	86	23	NPD
Stratobel 22.2 (2x Planibel Clear)	1B1	P1A-P2A	5	11	600 x 321	90	16	NPD
Stratobel 33.2 (2x Planibel Clearlite)	1B1	P1A-P2A	7	16	600 x 321	89	16	33 (-1; -4)
Stratobel 44.2 (2x Planibel Clearlite)	1B1	P1A-P2A	9	21	600 x 321	89	17	35 (-1; -3)
Stratobel 55.2 (2x Planibel Clearlite)	1B1	P1A-P2A	11	26	600 x 321	88	19	NPD
Stratobel 66.2 (2x Planibel Clearlite)	1B1	P1A-P2A	13	31	600 x 321	87	21	36 (-1; -3)
Stratobel 88.2 (2x Planibel Clearlite)	1B1	P1A-P2A	17	41	600 x 321	86	24	39 (-1; -3)
Stratobel 1010.2 (2x Planibel Clearlite)	1B1	P1A-P2A	21	51	600 x 321	84	28	NPD
Stratobel 1212.2 (2x Planibel Clearlite)	1B1	P1A-P2A	25	61	600 x 321	83	31	NPD
Stratobel 33.4 (2x Planibel Clearlite)	1B1	P3A-P4A	8	17	600 x 321	89	18	NPD
Stratobel 44.4 (2x Planibel Clearlite)	1B1	P3A-P4A	10	22	600 x 321	89	19	NPD
Stratobel 55.4 (2x Planibel Clearlite)	1B1	P3A-P4A	12	27	600 x 321	88	21	36 (-1; -4)
Stratobel 66.4 (2x Planibel Clearlite)	1B1	P3A-P4A	14	32	600 x 321	87	23	37 (-1; -4)
Stratobel 88.4 (2x Planibel Clearlite)	1B1	P3A-P4A	18	42	600 x 321	86	26	NPD
Stratobel 1010.4 (2x Planibel Clearlite)	1B1	P3A-P4A	22	52	600 x 321	84	30	NPD
Stratobel 44.6 (2x Planibel Clearlite)	1B1	P5A	10	22	600 x 321	89	21	NPD
Stratobel 66.6 (2x Planibel Clearlite)	1B1	P5A	14	32	600 x 321	87	24	NPD

STRATOBEL STRONG — LAMINATED GLASS WITH ENHANCED MECHANICAL PROPERTIES

	Norms		Total thickness mm	Weight kg/m ²	Max size Availability cm x cm	Light & Energy properties with Clearlite	
	Impact	Break-in				LT	EA
	EN 12600	EN 356				%	%
Stratobel Strong Clearvision 55.2	1B1	P2A	11	26	600 x 321	91	10
Stratobel Strong Clearvision 66.2	1B1	P2A	13	31	600 x 321	91	11
Stratobel Strong Clearvision 88.2	1B1	P2A	17	41	600 x 321	91	12
Stratobel Strong Clearvision 1010.2	1B1	P2A	21	51	600 x 321	91	13
Stratobel Strong Clearvision 1212.2	1B1	P2A	25	61	600 x 321	91	14

STRATOBEL SECURITY BURGLARY — PROTECTION FROM BREAK-INS

	Norms		Total thickness mm	Weight kg/m ²	Max size Availability cm x cm	Light & Energy properties with Clearlite	
	Impact	Break-in				LT	EA
	EN 12600	EN 356				%	%
Stratobel Security Burglary 502-2	1B1	P6B	15	33	600 x 321	87	25
Stratobel Security Burglary 103-7 NEW	1B1	P7B	21	45	600 x 321	86	30
Stratobel Security Burglary 303-7 NEW	1B1	P8B	23	47	600 x 321	86	31

STRATOBEL SECURITY BULLET — RESISTANCE TO BULLET ATTACKS

	Norms		Total thickness mm	Weight kg/m ²	Max size Availability cm x cm	Light & Energy properties with Clearlite	
	Break-in	Bullets				LT	EA
	EN 356	EN 1063				%	%
Stratobel Security Bullet 402-1-B	P3A-P4A	BR1-S	14	32	600 x 321	87	23
Stratobel Security Bullet 802-5-B	P3A-P4A	BR1-NS	18	42	600 x 321	86	26
Stratobel Security Bullet 902-7-B	P5A	BR2-S	19	43	600 x 321	86	29
Stratobel Security Bullet 104-1-B	P6B	BR2-NS	31	73	Cut size	81	37
Stratobel Security Bullet 403-5-B	P6B	BR3-S	24	54	600 x 321	84	32
Stratobel Security Bullet 704-3-B	P6B	BR3-NS	37	88	Cut size	79	40
Stratobel Security Bullet 004-8-B	P6B	BR4-S	30	67	Cut size	83	36
Stratobel Security Bullet 304-6-B	P6B	BR4-S / SG1-S	32	75	Cut size	81	38
Stratobel Security Bullet 106-1-B	P7B	BR4-NS	51	123	Cut size	75	47
Stratobel Security Bullet 504-4-B 	P8B	BR5-S / SG2-S	35	81	Cut size	81	39
Stratobel Security Bullet 806-2-B	P7B	BR5-NS	58	141	Cut size	72	51
Stratobel Security Bullet 905-9-B 	P7B	BR6-S	49	116	Cut size	76	47
Stratobel Security Bullet 408-1-B	P8B	BR6-NS	73	179	Cut size	68	57
Stratobel Security Bullet 009-1-B	P8B	BR7-NS	80	188	Cut size	67	59
<i>Thin version : for thin and light solutions</i>							
Stratobel Security Bullet STOPX13	NPD	BR1-NS	13	31	Cut size	87	21
Stratobel Security Bullet STOPX22	NPD	BR2-NS	22	52	Cut size	84	30
Stratobel Security Bullet STOPX26	NPD	BR3-NS	26	62	Cut size	83	34
Stratobel Security Bullet STOPX35	NPD	BR4-NS	35	83	Cut size	80	39
Stratobel Security Bullet STOPX44	NPD	BR5-NS / SG1-NS	44	104	Cut size	77	44
Stratobel Security Bullet STOPX57	NPD	BR6-NS / SG2-NS	57	135	Cut size	73	51
Stratobel Security Bullet STOPX74	NPD	BR7-NS	74	179	Cut size	68	57

STRATOBEL SECURITY EXPLOSION — RESISTANCE TO EXPLOSION

	Norms		Total thickness mm	Weight kg/m ²	Max size Availability cm x cm	Light & Energy properties with Clearlite	
	Break-in	Explosion				LT	EA
	EN 356	EN 13541				%	%
Stratobel Security Explosion 002-2-EX	P5A	ER1-S	10	22	600 x 321	89	21
Stratobel Security Explosion 902-2-EX	P6B	ER2-S	19	43	600 x 321	86	29
<i>XThin PC version : for thin and light solutions</i>							
Stratobel Security Explosion 823.860-EX PC	P7B	ER3-NS	24	52	Cut size	83	32

NPD = No Performance Determined.

⁽²⁾ These sound reduction indexes correspond to glazings which are 1,23 by 1,48m according to EN ISO 10140-3 and are tested in laboratory conditions. The accuracy of the given indexes is not better than +/- 1dB. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources, etc.