

# PERFORMANCE DATA

## THE AGC INTERPANE INSULATION GLASS PRODUCTS



### TECHNICAL SPECIFICATIONS OF AGC INTERPANE INSULATION GLASS PRODUCTS

#### Thermal insulation glass

Product Description	Glass make up external / cavity / (middle / cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410								U <sub>g</sub> - nominal value EN 673	Selectivity index	Thickness of the IG unit	Weight	Temperable / bendable	Cut size
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410/0.87)						
	mm	%	%	%	%	%	%	%	W/(m²K)		mm	kg/m²			
iplus top 1.1 on Clearlite	4/16/:4 Ar	82	64	98	12	7	-	7	0.74	1.1	1.28	24	20	-	•
iplus top 1.1 on Clearlite	6/16/:6 Ar	80	63	98	12	10	-	8	0.72	1.1	1.27	28	30	-	•
iplus top 1.1 on Clearlite	4/12/:4 Ar	82	64	98	12	7	-	7	0.74	1.3	1.28	20	20	-	•
iplus top 1.1 on Clearlite	6/12/:6 Ar	80	63	98	12	10	-	8	0.72	1.3	1.27	24	30	-	•
iplus advanced 1.0 on Clearlite	4/16/:4 Ar	76	57	98	15	8	-	8	0.66	1.0	1.33	24	20	-	-
iplus advanced 1.0 on Clearlite	6/16/:6 Ar	75	56	97	15	11	-	9	0.64	1.0	1.34	28	30	-	-
iplus advanced 1.0 on Clearlite	4/12/:4 Ar	76	57	98	15	8	-	8	0.66	1.2	1.33	20	20	-	-
iplus advanced 1.0 on Clearlite	6/12/:6 Ar	75	55	97	15	11	-	9	0.63	1.2	1.36	24	30	-	-
iplus top 1.1 T on Clearlite	4/16/:4 Ar	82	66	98	12	7	-	6	0.76	1.1	1.24	24	20	•	-
iplus top 1.1 T on Clearlite	6/16/:6 Ar	81	64	98	12	10	-	8	0.74	1.1	1.27	28	30	•	-
iplus top 1.1 T on Clearlite	4/12/:4 Ar	82	66	98	12	7	-	6	0.76	1.3	1.24	20	20	•	-
iplus top 1.1 T on Clearlite	6/12/:6 Ar	81	64	98	12	10	-	8	0.74	1.3	1.27	24	30	•	-
iplus advanced 1.0 T on Clearlite	4/16/:6 Ar	81	62	98	13	7	-	6	0.71	1.0	1.31	24	20	•	-
iplus advanced 1.0 T on Clearlite	6/16/:6 Ar	80	60	97	13	10	-	7	0.69	1.0	1.33	28	30	•	-
iplus advanced 1.0 T on Clearlite	4/12/:4 Ar	81	62	98	13	7	-	6	0.71	1.2	1.31	20	20	•	-
iplus advanced 1.0 T on Clearlite	6/12/:6 Ar	80	60	97	13	10	-	7	0.69	1.2	1.33	24	30	•	-
iplus top 3 (on Clearlite)	4/:16/4/16/:4 Ar	74	53	97	16	13	4	5	0.61	0.6	1.40	44	30	-	•
iplus top 3 (on Clearlite)	4/:12/4/12/:4 Ar	74	53	97	16	13	4	5	0.61	0.7	1.40	36	30	-	•
iplus top 3C (on Clearlite)	4/:12/4/12/:4 Kr	74	53	97	16	13	4	5	0.61	0.5	1.40	36	30	-	•
iplus top 3C (on Clearlite)	4/:10/4/10/:4 Kr	74	53	97	16	13	4	5	0.61	0.6	1.40	32	30	-	•
iplus 3LS (on Clearlite)	4/:16/4/16/:4 Ar	73	62	98	17	7	9	6	0.71	0.7	1.18	44	30	-	-
iplus 3LS (on Clearlite)	4/:12/4/12/:4 Ar	73	62	98	17	7	9	5	0.71	0.8	1.18	36	30	-	-
iplus 3CLS (on Clearlite)	4/:12/4/12/:4 Kr	73	62	98	17	7	9	6	0.71	0.6	1.18	36	30	-	-
iplus 3CLS (on Clearlite)	4/:10/4/10/:4 Kr	73	62	98	17	7	9	6	0.71	0.7	1.18	32	30	-	-
iplus Energy N on Clearlite	4/:16/4 Ar	73	41	97	12	22	-	1	0.47	1.0	1.78	24	20	-	-
iplus Energy N on Clearlite	6/:16/4 Ar	73	41	96	12	26	-	1	0.47	1.0	1.78	28	30	-	-
iplus Energy NT on Clearlite	4/:16/4 Ar	74	42	99	12	20	-	1	0.48	1.0	1.76	24	20	•	-
iplus Energy NT on Clearlite	6/:16/4 Ar	73	42	99	12	23	-	1	0.48	1.0	1.74	28	30	•	-
Energy light	4/:16/4 Ar	65	43	97	26	17	-	2	0.49	1.0	1.51	24	20	-	-
Energy light	6/:16/4 Ar	65	42	97	26	20	-	2	0.48	1.0	1.55	28	30	-	-
iplus Energy N on Clearlite	4/:16/4/16/:4 Ar	67	38	96	15	23	2	3	0.44	0.6	1.76	44	30	-	-
iplus Energy N on Clearlite	4/:12/4/12/:4 Ar	67	38	96	15	23	2	3	0.44	0.7	1.76	36	30	-	-
iplus Energy NT on Clearlite	4/:16/4/16/:4 Ar	67	39	98	15	21	2	3	0.45	0.6	1.72	44	30	•	-
iplus Energy NT on Clearlite	4/:12/4/12/:4 Ar	67	39	98	15	21	2	3	0.45	0.7	1.72	36	30	•	-
Energy light	4/:16/4/16/:4 Ar	60	38	97	29	17	2	3	0.44	0.6	1.58	44	30	-	-
Energy light	4/:12/4/12/:4 Ar	59	38	97	29	20	2	3	0.44	0.7	1.55	36	30	-	-
iplus AF & iplus top 1.1 on Clearlite	:4/:16/:4 Ar	76	61	99	16	12	-	6	0.70	1.1	1.25	24	20	-	-
iplus AF top on Clearlite	:4/:16/4 Ar	76	58	99	16	17	-	2	0.67	1.1	1.31	24	20	-	-
iplus AF Energy N	:4/:16/4 Ar	69	39	98	16	27	-	1	0.45	1.0	1.77	24	20	-	-
iplus AF Energy N	:4/:12/4/12/:4 Ar	62	36	97	18	27	1	2	0.41	0.7	1.72	36	30	-	-
iplus AF top 3	:4/:12/4/12/:4 Ar	69	50	98	19	18	4	4	0.57	0.7	1.38	36	30	-	-
iplus AF 3LS	:4/:12/:4/12/:4 Ar	69	59	99	20	12	8	5	0.68	0.8	1.17	36	30	-	-

: indicates the position of the coating(s); middle pane of 3 IGU is Planibel Clearlite; Ar = Argon gas filling; Kr = Krypton gas filling  
 The thickness of the IGU is the nominal thickness of the glazing - tolerances according EN 1279 or the Tolerance Handbook of AGC Interpane.  
 iplus Energy N / NT as well as Energy light have an inner pane with iplus top 1.1 on Clearlite in case of a 3 IGU.

### TECHNICAL SPECIFICATIONS OF AGC INTERPANE INSULATION GLASS PRODUCTS

#### Sound insulation glass

Product Description	Glass make up external / cavity / (middle / cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410								Sound reduction according EN ISO 717-1					Thickness of the IG unit	Weight	
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410/0.87)	U <sub>g</sub> - nominal value EN 673	R <sub>w</sub>	C	C <sub>1</sub>	C <sub>100-500</sub>			C <sub>100-5000</sub>
	mm	%	%	%	%	%	%	%	W/(m²K)	dB	dB	dB	dB	dB	mm	kg/m²	
ipaphon 36/26	6/16/:4 Ar	81	63	98	12	10	-	6	0.72	1.1	36	-2	-5	-1	-5	26	25
ipaphon 37/28	8/16/:4 Ar	80	62	98	12	13	-	6	0.71	1.1	37	-2	-5	-1	-5	28	30
ipaphon 37/29 V <sup>2)</sup>	9(P2A)/16/:4 Ar	80	58	97	12	21	-	5	0.67	1.1	37	-2	-6	-1	-6	29	33
ipaphon 39/31 V	6/:16/VSG 44.2 Ar	80	59	97	12	15	-	9	0.68	1.1	39	-3	-7	-2	-7	31	35
ipaphon 39/34 <sup>1)</sup>	10/20/:4 Ar	79	61	97	12	16	-	6	0.70	1.1	39	-2	-6	-1	-6	34	35
ipaphon 43/36 V	8/:16/VSG 66.2 Ar	77	58	96	12	18	-	11	0.67	1.1	43	-2	-6	-1	-6	36	51
ipaphon 37/22	6/12/:4 Kr	81	63	98	12	10	-	6	0.72	1.1	37	-3	-7	-2	-7	22	25
ipaphon 37/26	6/16/:4 Kr	81	63	98	12	10	-	6	0.72	1.1	37	-3	-8	-2	-8	26	25
ipaphon 39/26	10/12/:4 Kr	79	61	97	12	16	-	6	0.70	1.1	39	-3	-7	-2	-8	26	35
ipaphon 40/30	10/16/:4 Kr	79	61	98	12	16	-	6	0.70	1.1	40	-4	-9	-3	-9	30	35
ipaphon SF 43/31 <sup>3)</sup>	SF9/16/:6 Kr	80	57	97	12	21	-	6	0.66	1.1	43	-3	-8	-2	-8	31	36
ipaphon SF 49/38 <sup>3)</sup>	SF13/16/:SF9 Kr	77	55	96	12	25	-	8	0.63	1.1	49	-3	-9	-2	-9	38	52
ipaphon SF 41/31 <sup>3)</sup>	SF9/16/:6 Ar	80	57	97	12	21	-	6	0.66	1.1	41	-2	-6	-1	-6	31	36
ipaphon SF 45/35 <sup>3)</sup>	SF9/16/:10 Ar	78	57	97	12	21	-	8	0.66	1.1	45	-2	-6	-1	-6	35	46
ipaphon SF 46/37 <sup>3)</sup>	SF11/16/:10 Ar	77	56	96	12	23	-	8	0.64	1.1	46	-2	-6	-1	-6	37	51
ipaphon SF 49/38 <sup>3)</sup>	SF13/16/:SF9 Ar	77	55	96	12	25	-	8	0.63	1.1	49	-3	-8	-2	-8	38	52
ipaphon SF 50/42 <sup>3)</sup>	SF13/16/:SF13 L	76	55	96	12	25	-	10	0.63	1.3	50	-2	-7	-1	-7	42	62
ipaphon SF 52/46 <sup>3)</sup>	SF17/16/:SF13 L	75	53	95	11	29	-	9	0.61	1.3	52	-1	-5	0	-5	46	72
ipaphon 33/36	4/:12/4/12/:4 Ar	74	53	97	16	13	4	5	0.61	0.7	33	-2	-6	-1	-6	36	30
ipaphon 36/38	6/:12/4/12/:4 Ar	73	52	97	15	16	4	4	0.60	0.7	36	-2	-6	-1	-6	38	35
ipaphon 37/40	8/:12/4/12/:4 Ar	73	51	96	15	19	4	4	0.59	0.7	37	-1	-6	-1	-6	40	40
ipaphon 39/42	8/:12/4/12/:6 Ar	72	51	96	15	19	4	5	0.59	0.7	39	-2	-5	-1	-5	42	45
ipaphon 43/47 V	8/:12/4/10/:VSG 66.2 Ar	70	51	95	15	19	4	10	0.59	0.8	43	-2	-4	-1	-4	47	61
ipaphon 33/36	4/:12/4/12/:4 Kr	74	53	97	16	13	4	5	0.61	0.5	33	-2	-5	-1	-5	36	30
ipaphon 36/34	6/:10/4/10/:4 Kr	73	52	97	15	16	4	4	0.60	0.6	36	-1	-5	0	-5	34	35
ipaphon 38/38	6/:12/4/12/:4 Kr	73	52	97	15	16	4	4	0.60	0.5	38	-2	-6	-1	-6	38	35
ipaphon 39/42	8/:12/4/12/:6 Kr	72	51	96	15	19	4	5	0.59	0.5	39	-1	-5	0	-5	42	45
ipaphon SF 41/43 <sup>3)</sup>	6/:12/4/12/:SF9 Ar	72	52	96	15	16	4	9	0.60	0.7	41	-2	-7	-1	-7	43	45
ipaphon SF 42/45 <sup>3)</sup>	8/:12/4/12/:SF9 Ar	71	51	96	15	19	4	9	0.59	0.7	42	-2	-7	-1	-7	45	50
ipaphon SF 46/48 <sup>3)</sup>	SF9/:12/6/12/:SF9 Ar	71	47	95	15	26	4	6	0.54	0.7	46	-2	-7	-1	-7	48	56
ipaphon SF 42/43 <sup>3)</sup>	6/:12/4/12/:SF9 Kr	72	52	96	15	16	4	9	0.60	0.5	42	-2	-7	-1	-7	43	45
ipaphon SF 43/45 <sup>3)</sup>	8/:12/4/12/:SF9 Kr	71	51	96	15	19	4	9	0.59	0.5	43	-2	-6	-1	-6	45	50
ipaphon SF 47/50 <sup>3)</sup>	SF11/:12/6/12/:SF9 Kr	70	46	95	15	28	4	6	0.53	0.5	47	-2	-8	-1	-8	50	61
ipaphon SF 50/52 <sup>3)</sup>	SF13/:12/6/12/:SF9 Ar	70	46	95	15	30	4	5	0.53	0.7	50	-2	-7	-1	-7	52	66

: indicates the position of the coating(s); middle pane of 3 IGU is Planibel Clearlite; Ar = Argon gas filling; Kr = Krypton gas filling; L = air filling  
 The standard glass make-up for ipaphon is always iplus top 1.1 on Planibel Clearlite - you can combine nearly all products with solar control coatings.  
<sup>1)</sup> At an aspect ratio from ≥ 1: 3 we recommend that the thinner pane is made out of toughened glass, heat soaked toughened glass or heat strengthened glass.  
<sup>2)</sup> P2A according EN 356  
<sup>3)</sup> ipaphon SF with an interlayer of 0.76 mm is a laminated safety glass.

The thickness of the IGU is the nominal thickness of the glazing - tolerances according EN 1279 or the Tolerance Handbook of AGC Interpane.

#### Technical Data: Key

Whoever orders our products is themselves responsible for seeing to it that the glass thickness is properly dimensioned in accordance with the technical rules and regulations applying at the time or place concerned. Please bear in mind that, where panes are thicker, the inherent color of the insulating glass element will tend to increase in the form of a green / yellow tinge. The nominal values cited refer to the testing / inspection conditions and the sphere of application of the respective product standard(s). Any deviation from perpendicularity will lead to changes in these values. The technical data are subject to the tolerances listed in the AGC INTERPANE Tolerance Handbook. So as to ensure a good visual appearance it is recommended that, particularly in the case of triple-glazed insulating glass, systems of black-colored spacer-bars be employed. We reserve the right to make changes to the present data without notice. No valid legal claims can be derived from the contents of the following document.

## Solar control glass - Magnetron-Coatings (Softcoatings)

Product Description	Glass make up external / cavity / (middle / cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410										Thickness of the IG unit	Weight	Temperable / bendable	Cut size	
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410(0.87))	U <sub>r</sub> - nominal value EN 673	Selectivity index					
<b>Dual-glazing</b>																
	mm	%	%	%	%	%	%	%	---	W/(m²K)		mm	kg/m²			
ipasol neutral 70/37	6:/16/4 Ar	70	37	96	12	28	-	1	0.43	1.0	1.89	26	25	-	•	-
ipasol ultraselect 62/29	6:/16/4 Ar	62	29	93	9	34	-	1	0.33	1.0	2.14	26	25	-	•	-
ipasol light grey 60/33	6:/16/4 Ar	60	33	93	10	35	-	1	0.38	1.0	1.82	26	25	-	•	-
ipasol neutral 50/27	6:/16/4 Ar	50	27	94	8	49	-	1	0.31	1.1	1.85	26	25	-	•	-
ipasol sky 47/29	6:/16/4 Ar	47	29	95	40	25	-	1	0.33	1.0	1.62	26	25	-	•	-
ipasol shine 40/22	6:/16/4 Ar	40	22	91	16	52	-	1	0.25	1.1	1.82	26	25	-	•	-
ipasol sky 30/17*	6:/16/4 Ar	30	17	86	18	62	-	0	0.20	1.1	1.76	26	25	-	•	-
ipasol platin 25/17	6:/16/4 Ar	25	17	97	61	23	-	1	0.20	1.0	1.47	26	25	-	•	-
ipasol bright neutral	6:/16/4 Ar	58	49	98	35	11	-	5	0.56	1.1	1.18	26	25	•	•	-
ipasol bright white	6:/16/4 Ar	60	52	98	37	4	-	6	0.59	1.1	1.18	26	25	•	•	-
Stoprpay Vision-72	6:/16/4 Ar	72	38	96	13	25	-	1	0.44	1.0	1.89	26	25	-	-	-
Stoprpay Vision-72T	6:/16/4 Ar	72	38	96	13	25	-	1	0.44	1.0	1.89	26	25	•	•	-
Stoprpay Vision-61	6:/16/4 Ar	61	33	95	13	34	-	0	0.38	1.0	1.85	26	25	-	-	-
Stoprpay Vision-61T	6:/16/4 Ar	61	33	95	13	34	-	0	0.38	1.0	1.85	26	25	•	•	-
Stoprpay Vision-60	6:/16/4 Ar	61	35	96	15	36	-	1	0.40	1.0	1.74	26	25	-	-	-
Stoprpay Vision-60T	6:/16/4 Ar	60	37	99	14	36	-	1	0.43	1.0	1.62	26	25	•	•	-
Stoprpay Vision-51	6:/16/4 Ar	51	27	93	14	38	-	1	0.31	1.0	1.89	26	25	-	-	-
Stoprpay Vision-51T	6:/16/4 Ar	51	27	93	14	38	-	1	0.31	1.0	1.89	26	25	•	•	-
Stoprpay Ultraselect-50 on Clearvision	6:/16/4 Ar	50	24	92	20	32	-	1	0.28	1.0	2.08	26	25	-	•	-
Stoprpay Vision-50	6:/16/4 Ar	50	28	93	19	41	-	1	0.32	1.0	1.79	26	25	-	-	-
Stoprpay Vision-50T	6:/16/4 Ar	50	30	98	17	39	-	1	0.35	1.0	1.66	26	25	•	•	-
Stoprpay Vision-40	6:/16/4 Ar	40	21	92	19	39	-	1	0.24	1.0	1.90	26	25	-	-	-
Stoprpay Vision-40T	6:/16/4 Ar	40	21	92	19	39	-	1	0.24	1.0	1.90	26	25	•	•	-

: indicates the position of the coating(s); iplus top 1.1 on Clearlite on Pos. 5; middle pane of 3 IGU is Planibel Clearlite; Ar= Argon gas filling  
 \* The outer pane is made out of toughened glass, heat soaked toughened glass or heat strengthened glass.  
 The thickness of the IGU is the nominal thickness of the glazing - tolerances according EN 1279 or the Tolerance Handbook of AGC Interpane.  
 If the external energy absorptance of the outer pane is greater than 55 % for vertical glazings or 50 % for sloped glazings we recommend the use of thermally tempered glass.  
 This is not a fix limit but rather a limit range.

Product Description	Glass make up external / cavity / (middle / cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410										Thickness of the IG unit	Weight	Temperable / bendable	Cut size	
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410(0.87))	U <sub>r</sub> - nominal value EN 673	Selectivity index					
<b>Triple-glazing</b>																
	mm	%	%	%	%	%	%	%	---	W/(m²K)		mm	kg/m²			
ipasol neutral 70/37	6:/14/4/14:/4 Ar	64	34	95	15	29	1	2	0.39	0.6	1.88	42	35	-	•	-
ipasol ultraselect 62/29	6:/14/4/14:/4 Ar	56	27	91	11	34	1	2	0.31	0.6	2.07	42	35	-	•	-
ipasol light grey 60/33	6:/14/4/14:/4 Ar	54	30	92	12	36	1	2	0.34	0.6	1.80	42	35	-	•	-
ipasol neutral 50/27	6:/14/4/14:/4 Ar	45	25	92	10	50	1	2	0.29	0.6	1.80	42	35	-	•	-
ipasol platin 47/29	6:/14/4/14:/4 Ar	43	27	94	41	26	1	2	0.31	0.6	1.59	42	35	-	•	-
ipasol shine 40/22	6:/14/4/14:/4 Ar	36	20	90	17	53	1	1	0.23	0.6	1.80	42	35	-	•	-
ipasol sky 30/17*	6:/14/4/14:/4 Ar	27	15	85	18	62	0	1	0.17	0.6	1.80	42	35	-	•	-
ipasol platin 25/17	6:/14/4/14:/4 Ar	22	16	96	61	24	1	1	0.18	0.6	1.38	42	35	-	•	-
ipasol bright neutral	6:/14/4/14:/4 Ar	54	46	98	38	11	5	5	0.53	0.9	1.17	42	35	•	•	-
ipasol bright white	6:/14/4/14:/4 Ar	55	47	98	40	4	5	5	0.54	0.9	1.17	42	35	•	•	-
Stoprpay Vision-72	6:/14/4/14:/4 Ar	65	35	95	16	26	1	2	0.40	0.6	1.86	42	35	-	-	-
Stoprpay Vision-72T	6:/14/4/14:/4 Ar	65	35	95	16	26	1	2	0.40	0.6	1.86	42	35	•	•	-
Stoprpay Vision-61	6:/14/4/14:/4 Ar	55	30	93	15	34	1	2	0.34	0.6	1.83	42	35	-	-	-
Stoprpay Vision-61T	6:/14/4/14:/4 Ar	55	30	94	15	34	1	2	0.34	0.6	1.83	42	35	•	•	-
Stoprpay Vision-60	6:/14/4/14:/4 Ar	55	31	95	17	37	1	2	0.36	0.6	1.77	42	35	-	-	-
Stoprpay Vision-60T	6:/14/4/14:/4 Ar	54	34	98	16	37	1	2	0.39	0.6	1.59	42	35	•	•	-
Stoprpay Vision-51	6:/14/4/14:/4 Ar	46	25	92	16	39	1	2	0.29	0.6	1.84	42	35	-	-	-
Stoprpay Vision-51T	6:/14/4/14:/4 Ar	46	25	92	16	39	1	2	0.29	0.6	1.84	42	35	•	•	-
Stoprpay Ultraselect-50 on Clearvision	6:/14/4/14:/4 Ar	46	22	91	21	33	1	1	0.25	0.6	2.09	42	35	-	•	-
Stoprpay Vision-50	6:/14/4/14:/4 Ar	46	25	92	20	42	1	2	0.29	0.6	1.84	42	35	-	-	-
Stoprpay Vision-50T	6:/14/4/14:/4 Ar	45	27	97	19	39	1	2	0.31	0.6	1.67	42	35	•	•	-
Stoprpay Vision-40	6:/14/4/14:/4 Ar	37	19	91	20	39	1	1	0.22	0.6	1.95	42	35	-	-	-
Stoprpay Vision-40T	6:/14/4/14:/4 Ar	37	19	91	20	39	1	1	0.22	0.6	1.95	42	35	•	•	-

: indicates the position of the coating(s); iplus top 1.1 on Clearlite on Pos. 5; middle pane of 3 IGU is Planibel Clearlite; Ar= Argon gas filling  
 \* The outer pane is made out of toughened glass, heat soaked toughened glass or heat strengthened glass.  
 The thickness of the IGU is the nominal thickness of the glazing - tolerances according EN 1279 or the Tolerance Handbook of AGC Interpane.  
 If the external energy absorptance of the outer pane is greater than 55 % for vertical glazings or 50 % for sloped glazings we recommend the use of thermally tempered glass.  
 This is not a fix limit but rather a limit range.

## Solar control glass - Pyrolytic coatings (Hardcoatings)

Product Description	Glass make up external / cavity / (middle / cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410										Thickness of the IG unit	Weight	Temperable / bendable	Cut size	
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410(0.87))	U <sub>r</sub> - nominal value EN 673	Selectivity index					
<b>Dual-glazing</b>																
	mm	%	%	%	%	%	%	%	---	W/(m²K)		mm	kg/m²			
Stopsol Classic Clear	6:/16/4 Ar	35	33	91	28	36	-	4	0.38	1.1	1.06	26	25	•	•	-
Stopsol Classic Grey*	6:/16/4 Ar	17	21	92	10	68	-	2	0.24	1.1	0.81	26	25	•	•	-
Stopsol Classic Green*	6:/16/4 Ar	28	20	93	20	71	-	2	0.23	1.1	1.40	26	25	•	•	-
Stopsol Classic Bronze*	6:/16/4 Ar	20	22	83	12	65	-	2	0.25	1.1	0.91	26	25	•	•	-
Stopsol Supersilver Clear	6:/16/4 Ar	57	47	96	36	16	-	5	0.54	1.1	1.21	26	25	•	•	-
Stopsol Supersilver Grey*	6:/16/4 Ar	27	27	95	12	62	-	2	0.31	1.1	1.00	26	25	•	•	-
Stopsol Supersilver Green*	6:/16/4 Ar	47	29	92	26	58	-	2	0.33	1.1	1.62	26	25	•	•	-
Stopsol Supersilver Dark Blue*	6:/16/4 Ar	37	26	84	18	62	-	2	0.30	1.1	1.42	26	25	•	•	-
Stopsol SilverLight PrivaBlue*	6:/16/4 Ar	25	17	63	8	80	-	1	0.20	1.1	1.47	26	25	•	•	-
Sunergy Clear	6:/16/4 Ar	61	45	97	11	42	-	4	0.52	1.1	1.36	26	25	•	•	-
Sunergy Green*	6:/16/4 Ar	51	30	87	9	66	-	2	0.34	1.1	1.67	26	25	•	•	-
Sunergy Azur*	6:/16/4 Ar	50	32	87	9	63	-	2	0.37	1.1	1.56	26	25	•	•	-
Sunergy Dark Blue*	6:/16/4 Ar	37	26	78	7	70	-	2	0.30	1.1	1.42	26	25	•	•	-
Sunergy Grey*	6:/16/4 Ar	30	27	94	6	68	-	2	0.31	1.1	1.11	26	25	•	•	-

: indicates the position of the coating(s); Ar= Argon gas filling  
 \* The outer pane is made out of toughened glass, heat soaked toughened glass or heat strengthened glass.  
 The thickness of the IGU is the nominal thickness of the glazing - tolerances according EN 1279 or the Tolerance Handbook of AGC Interpane.  
 If the external energy absorptance of the outer pane is greater than 55 % for vertical glazings or 50 % for sloped glazings we recommend the use of thermally tempered glass.  
 This is not a fix limit but rather a limit range.

## Solar control glass - ipasol Object products - Non-Standard

The availability must be checked in advance with the coating companies.

Product Description	Glass make up external / cavity / (middle cavity) inner	Nominal values for the luminous and solar characteristics of glazing according EN 410										Thickness of the IG unit	Weight	Temperable / bendable	Cut size	
		Light transmission	Solar factor	General color rendering index	Light reflectance external	Solar direct absorbance external	Solar direct absorbance middle	Solar direct absorbance inner	Shading Coefficient (Solar factor EN 410(0.87))	U <sub>r</sub> - nominal value EN 673	Selectivity index					
<b>Dual-glazing</b>																
	mm	%	%	%	%	%	%	%	---	W/(m²K)		mm	kg/m²			
ipasol neutral 73/42	6:/16/4 Ar	73	42	96	10	27	-	1	0.48	1.1	1.74	24	25	-	•	-
ipasol shine 59/32	6:/16/4 Ar	59	32	93	21	28	-	1	0.37	1.0	1.84	24	25	-	•	-
ipasol platin 52/36	6:/16/4 Ar	52	36	97	30	27	-	1	0.41	1.1	1.44	24	25	-	•	-
ipasol shine 49/28	6:/16/4 Ar	49	28	96	22	35	-	1	0.32	1.1	1.75	24	25	-	•	-
ipasol neutral 48/27	6:/16/4 Ar															