



Unique identification code of the product Type:	NOVOLAY® secure Declaration of performance no. 1121 – CPR – CA5005
Intended use:	Laminated safety glass and insulating glass units to be used in buildings and construction works
Manufacturer:	SCHOTT Technical Glass Solutions GmbH Otto-Schott-Strasse 13 07745 Jena Germany
Harmonised standard:	EN 14449:2005 und EN 1279-5:2005+A2:2010
Notified bodies:	No.: 0086, 0402, 0432, 0589, 0672, 0757, 0761, 0786, 0832, 0833, 0843, 1121, 1139, 1166, 1234, 1288, 1314, 1322, 1343, 1396, 1644, 1812, 2502

Essential characteristics	AVCP systems	Declared performance/s	
		Type P4A / 2.4.2	Type P5A / 3.13.10
Safety in the case of fire			
Resistance to fire	1	E60 / EW20	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	NPD	NPD
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P4A	P5A
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		5,5 W/(m²K)	5,5 W/(m²K)
Radiation properties			
Light transmission	3	0,89	0,89
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,73	0,72
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,78	0,77
Durability	3	Pass	Pass

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Jena, 30.11.2018

Dr. Reiner Mauch

ppa. Christian Jabschinsky



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Essential characteristics	AVCP systems	Declared performance/s	
		Type P6B / 2.2.2	Type P7B / 2.9.3
Safety in the case of fire			
Resistance to fire	1	NPD	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	NPD	NPD
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P6B	P7B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		5,1 W/(m²K)	4,9 W/(m²K)
Radiation properties			
Light transmission	3	0,87	0,85
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,74	0,73
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,79	0,78
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type P8B / 1.9.3	Type P8B / 1.5.10
Safety in the case of fire			
Resistance to fire	1	NPD	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	NPD	NPD
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		4,8 W/(m²K)	4,5 W/(m²K)
Radiation properties			
Light transmission	3	0,85	0,84
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,73	0,70
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,78	0,75
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type P8B / 7.11.5	Type P8B / 7.12.0
Safety in the case of fire			
Resistance to fire	1	NPD	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	NPD	NPD
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		4,1 W/(m²K)	3,4 W/(m²K)
Radiation properties			
Light transmission	3	0,78	0,69
Light reflection		0,07 / 0,07	0,07 / 0,07
Solar energy characteristics			
Solar transmission	3	0,62	0,53
Solar reflection		0,06	0,06
Solar factor (g-Value)		0,70	0,62
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR2NS / 1.2.3	Type BR2NS / 1.4.5
Safety in the case of fire			
Resistance to fire	1	NPD	EW90
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR2NS	BR2NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	NPD	P6B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		5,2 W/(m²K)	5,2 W/(m²K)
Radiation properties			
Light transmission	3	0,87	0,90
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,76	0,75
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,80	0,79
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR4NS / 15.3.0	Type BR4NS / 1.5.4
Safety in the case of fire			
Resistance to fire	1	NPD	EW60
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR4NS	BR4NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		5,2 W/(m²K)	4,8 W/(m²K)
Radiation properties			
Light transmission	3	0,88	0,89
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,72	0,73
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,77	0,78
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR4NS / 7.13.14	Type BR5NS / 18.15.19
Safety in the case of fire			
Resistance to fire	1	NPD	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR4NS	BR5NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	NPD
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		3,5 W/(m²K)	4,9 W/(m²K)
Radiation properties			
Light transmission	3	0,73	0,87
Light reflection		0,07 / 0,07	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,56	0,68
Solar reflection		0,06	0,07
Solar factor (g-Value)		0,65	0,75
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR6NS / 1.3.5	Type BR6NS / 1.5.7
Safety in the case of fire			
Resistance to fire	1	NPD	EI30 / EW60
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR6NS	BR6NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		4,7 W/(m²K)	4,5 W/(m²K)
Radiation properties			
Light transmission	3	0,87	0,87
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,67	0,69
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,73	0,75
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR7NS / 1.1.2	Type BR7NS / 1.3.8
Safety in the case of fire			
Resistance to fire	1	EI45 / EW60	EI30
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR7NS	BR7NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		4,3 W/(m²K)	4,2 W/(m²K)
Radiation properties			
Light transmission	3	0,86	0,83
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,70	0,64
Solar reflection		0,07	0,06
Solar factor (g-Value)		0,75	0,71
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type BR7NS / 1.3.10	
Safety in the case of fire			
Resistance to fire	1	NPD	
Reaction to fire	3, 4	E	
External fire behaviour	3, 4	NPD	
Safety in use			
Bullet resistance	1	BR7NS	
Explosion resistance	1	NPD	
Burglar resistance	3	P8B	
Pendulum body impact resistance	3	NPD	
Resistance against sudden temperature changes and temperature differentials	4	40 K	
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	
Protection against noise			
Direct airborne sound reduction	3	NPD	
Thermal properties			
Emissivity	3	NPD	
U-value		3,9 W/(m²K)	
Radiation properties			
Light transmission	3	0,81	
Light reflection		0,07 / 0,07	
Solar energy characteristics			
Solar transmission	3	0,58	
Solar reflection		0,06	
Solar factor (g-Value)		0,66	
Durability	3	Pass	

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Essential characteristics	AVCP systems	Declared performance/s	
		IGU Type BR4NS / 1.5.4 ¹	IGU Type BR7NS / 1.1.2 ²
Safety in the case of fire			
Resistance to fire	1	EI30 / EW60	EI45 / EW60
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR4NS	BR7NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	P8B	P8B
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		1,1 W/(m²K)	1,0 W/(m²K)
Radiation properties			
Light transmission	3	0,81	0,78
Light reflection		0,12 / 0,11	0,11 / 0,11
Solar energy characteristics			
Solar transmission	3	0,52	0,50
Solar reflection		0,26	0,26
Solar factor (g-Value)		0,60	0,60
Durability	3	Pass	Pass

¹ Design: outside – Float 4 mm lowE – Argon 15 mm – NOVOLAY® secure BR4NS / 1.5.4 - inside

² Design: outside – Float 4 mm lowE – Argon 15 mm – NOVOLAY® secure BR7NS / 1.1.2 - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		IGU Type BR7NS / 1.3.8 ³	
Safety in the case of fire			
Resistance to fire	1	EI30	
Reaction to fire	3, 4	E	
External fire behaviour	3, 4	NPD	
Safety in use			
Bullet resistance	1	BR7NS	
Explosion resistance	1	NPD	
Burglar resistance	3	P8B	
Pendulum body impact resistance	3	NPD	
Resistance against sudden temperature changes and temperature differentials	4	40 K	
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	
Protection against noise			
Direct airborne sound reduction	3	NPD	
Thermal properties			
Emissivity	3	NPD	
U-value		1,0 W/(m²K)	
Radiation properties			
Light transmission	3	0,75	
Light reflection		0,11 / 0,11	
Solar energy characteristics			
Solar transmission	3	0,47	
Solar reflection		0,26	
Solar factor (g-Value)		0,60	
Durability	3	Pass	

³ Design: outside – Float 4 mm lowE – Argon 15 mm – NOVOLAY® secure BR7NS / 1.3.8 - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		IGU Type BR4NS / 1.6.5 ⁴	IGU Type BR4NS / 1.6.6 ⁵
Safety in the case of fire			
Resistance to fire	1	NPD	NPD
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
Safety in use			
Bullet resistance	1	BR4NS	BR4NS
Explosion resistance	1	NPD	NPD
Burglar resistance	3	NPD	NPD
Pendulum body impact resistance	3	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	4	40 K	40 K
Resistance against wind, snow, permanent load and/or imposed loads	4	NPD	NPD
Protection against noise			
Direct airborne sound reduction	3	NPD	NPD
Thermal properties			
Emissivity	3	NPD	NPD
U-value		1,6 W/(m²K)	1,1 W/(m²K)
Radiation properties			
Light transmission	3	0,80	0,80
Light reflection		0,11 / 0,11	0,11 / 0,11
Solar energy characteristics			
Solar transmission	3	0,51	0,51
Solar reflection		0,20	0,20
Solar factor (g-Value)		0,57	0,56
Durability	3	Pass	Pass

⁴ Design: outside – Float 4 mm lowE – Argon 15 mm – NOVOLAY® secure BR4NS / 1.6.5 - inside

⁵ Design: outside – Float 4 mm lowE – Argon 15 mm – NOVOLAY® secure BR4NS / 1.6.6 - inside

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Jena, 30.11.2018

Dr. Reiner Mauch

ppa. Christian Jabschinsky



Unique identification code of the product Type:	NOVOLAY® secure Declaration of performance no. 1121 – CPR – CA5005
Intended use:	Laminated safety glass and insulating glass units to be used in buildings and construction works
Manufacturer:	SCHOTT Technical Glass Solutions GmbH Otto-Schott-Strasse 13 07745 Jena Germany
Harmonised standard:	EN 14449:2005 und EN 1279-5:2005+A2:2010
Notified bodies:	No.: 0086, 0402, 0432, 0589, 0672, 0757, 0761, 0786, 0832, 0833, 0843, 1121, 1139, 1166, 1234, 1288, 1314, 1322, 1343, 1396, 1644, 1812, 2502

Remark to the Declaration of Performance

For laminated glass and insulating glass units, this declaration of performance indicates some exemplary glass structures/designs but it is not possible to list all available glass structures/designs.

The declaration of performance and the characteristics of performance of non-listed glass structures/designs is available on request or with your order.

SCHOTT Technical Glass Solutions GmbH
E-Mail: info.pyran@schott.com

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Jena, 30.11.2018

Dr. Reiner Mauch

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