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Unique identification code of the product Type:	ISO PYRANOVA® Declaration of performance no. 1121 – CPR – CA0011
Intended use:	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 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	
		S3.1.10 – Type 15.2.122 ¹	S3.1.14 – Type 12.2.122 ²
Safety in the case of fire			
Resistance to fire	1	EI15 / EW30	EI15 / EW30
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	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		1,1 W/(m²K)	1,3 W/(m²K)
Radiation properties			
Light transmission	3	0,77	0,76
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,46	0,47
Solar reflection		0,25	0,25
Solar factor (g-Value)		0,58	0,58
Durability	3	Pass	Pass

¹ Design: outside - Float 6 mm lowE – Argon filled 15mm – PYRANOVA® S3.1.10 10 mm - inside

² Design: outside - Float 6 mm lowE – Argon filled 12mm – PYRANOVA® S3.1.14 14 mm - 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, 02/01/2017

Kai Olbricht

ppa. Christian Jabschinsky



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Essential characteristics	AVCP systems	Declared performance/s	
		30 S2.1 – Type 15.1.120 ³	30 S2.1 – Type 15.2.120 ⁴
Safety in the case of fire			
Resistance to fire	1	EI45	EI45
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	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		1,4 W/(m²K)	1,1 W/(m²K)
Radiation properties			
Light transmission	3	0,75	0,75
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,44	0,44
Solar reflection		0,26	0,26
Solar factor (g-Value)		0,58	0,59
Durability	3	Pass	Pass

³ Design: outside - Float 4 mm lowE – Air filled 15mm – PYRANOVA® 30 S2.1 19 mm - inside

⁴ Design: outside - Float 4 mm lowE – Argon filled 15mm – PYRANOVA® 30 S2.1 19 mm - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		30 S2.0 – Type 15.1.128 ⁵	30 S2.0 – Type 15.2.128 ⁶
Safety in the case of fire			
Resistance to fire	1	EI45	EI45
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	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		1,4 W/(m²K)	1,1 W/(m²K)
Radiation properties			
Light transmission	3	0,75	0,75
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,44	0,44
Solar reflection		0,21	0,21
Solar factor (g-Value)		0,55	0,55
Durability	3	Pass	Pass

⁵ Design: outside – Laminate-3.3.2- 7 mm lowE – Air filled 15mm – PYRANOVA® 30 S2.0 15 mm - inside

⁶ Design: outside – Laminate-3.3.2- 7 mm lowE – Argon filled 15mm – PYRANOVA® 30 S2.0 15 mm - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		60 S2.1 – Type 15.1.120 ⁷	60 S2.1 – Type 15.2.120 ⁸
Safety in the case of fire			
Resistance to fire	1	EI60	EI60
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	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		1,4 W/(m ² K)	1,1 W/(m ² K)
Radiation properties			
Light transmission	3	0,72	0,72
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,40	0,40
Solar reflection		0,26	0,26
Solar factor (g-Value)		0,58	0,58
Durability	3	Pass	Pass

⁷ Design: outside - Float 4 mm lowE – Air filled 15mm – PYRANOVA® 60 S2.1 27 mm - inside

⁸ Design: outside - Float 4 mm lowE – Argon filled 15mm – PYRANOVA® 60 S2.1 27 mm - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		60 S2.0 – Type 15.1.128 ⁹	60 S2.0 – Type 15.2.128 ¹⁰
Safety in the case of fire			
Resistance to fire	1	EI60	EI60
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	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		1,4 W/(m ² K)	1,1 W/(m ² K)
Radiation properties			
Light transmission	3	0,72	0,72
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,40	0,40
Solar reflection		0,21	0,21
Solar factor (g-Value)		0,54	0,54
Durability	3	Pass	Pass

⁹ Design: outside – Laminate-3.3.2- 7 mm lowE – Air filled 15mm – PYRANOVA® 60 S2.0 23 mm - inside

¹⁰ Design: outside – Laminate-3.3.2- 7 mm lowE – Argon filled 15mm – PYRANOVA® 60 S2.0 23 mm - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		90 S3.1 – Type 15.1.121 ¹¹	90 S3.1 – Type 15.2.121 ¹²
Safety in the case of fire			
Resistance to fire	1	EI90	EI90
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	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		1,3 W/(m²K)	1,1 W/(m²K)
Radiation properties			
Light transmission	3	0,73	0,73
Light reflection		0,15	0,15
Solar energy characteristics			
Solar transmission	3	0,46	0,46
Solar reflection		0,25	0,25
Solar factor (g-Value)		0,58	0,58
Durability	3	Pass	Pass

¹¹ Design: outside - Float 5 mm lowE – Air filled 15mm – PYRANOVA® 90 S3.1 40 mm - inside

¹² Design: outside - Float 5 mm lowE – Argon filled 15mm – PYRANOVA® 90 S3.1 40 mm - inside

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Essential characteristics	AVCP systems	Declared performance/s	
		90 S3.0 – Type 15.1.128 ¹³	90 S3.0 – Type 15.2.128 ¹⁴
Safety in the case of fire			
Resistance to fire	1	EI90	EI90
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	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		1,3 W/(m²K)	1,1 W/(m²K)
Radiation properties			
Light transmission	3	0,73	0,73
Light reflection		0,14	0,14
Solar energy characteristics			
Solar transmission	3	0,45	0,45
Solar reflection		0,21	0,21
Solar factor (g-Value)		0,55	0,55
Durability	3	Pass	Pass

¹³ Design: outside – Laminate-3.3.2- 7 mm lowE – Air filled 15mm – PYRANOVA® 90 S3.0 37 mm - inside

¹⁴ Design: outside – Laminate-3.3.2- 7 mm lowE – Argon filled 15mm – PYRANOVA® 90 S3.0 37 mm - inside

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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
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