



Unique identification code of the product Type:	PYRANOVA® Declaration of performance no. 1121 – CPR – CA0008/0022
Intended use:	Laminated and laminated safety glass 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
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 S2.0.7	Type S3.0.7
Safety in the case of fire			
Resistance to fire	1	EW30	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	32 (-1; -3) dB	34 (-2; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,7 W/(m²K)	5,6 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	0,73
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,78	0,78
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, 11/07/2018

Dr. Reiner Mauch

ppa. Christian Jabschinsky



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Essential characteristics	AVCP systems	Declared performance/s	
		Type S3.0.9	Type S3.1.10
Safety in the case of fire			
Resistance to fire	1	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	3(B)3	2(B)2
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	35 (-1; -3) dB	36 (-1; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,6 W/(m²K)	5,5 W/(m²K)
Radiation properties			
Light transmission	3	0,88	0,87
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,70	0,64
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,75	0,71
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S3.1.11	
Safety in the case of fire			
Resistance to fire	1	EI15 / EW30	
Reaction to fire	3, 4	E	
External fire behaviour	3, 4	NPD	
Safety in use			
Bullet resistance	1	NPD	
Explosion resistance	1	NPD	
Burglar resistance	3	NPD	
Pendulum body impact resistance	3	1(B)1	
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	37 (-1; -2) dB	
Thermal properties			
Emissivity	3	0,89	
U-value		5,5 W/(m²K)	
Radiation properties			
Light transmission	3	0,87	
Light reflection		0,08 / 0,08	
Solar energy characteristics			
Solar transmission	3	0,66	
Solar reflection		0,07	
Solar factor (g-Value)		0,72	
Durability	3	Pass	

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S2.0.11	Type S2.1.11
Safety in the case of fire			
Resistance to fire	1	EI20 / 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	2(B)2	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	32 (-2; -3) dB	32 (-1; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,5 W/(m²K)	5,5 W/(m²K)
Radiation properties			
Light transmission	3	0,87	0,88
Light reflection		0,09 / 0,09	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,68	0,68
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,74	0,74
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S3.1.14	Type S2.1.15
Safety in the case of fire			
Resistance to fire	1	EI20 / EW30	EI20
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	1(B)1	2(B)2
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	38 (-1; -3) dB	38 (-1; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,4 W/(m²K)	5,4 W/(m²K)
Radiation properties			
Light transmission	3	0,86	0,86
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,63	0,63
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,71	0,70
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S2.0	Type 30 S3.0
Safety in the case of fire			
Resistance to fire	1	EI30	EI30
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	1(B)1	2(B)2
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	38 (-1; -3) dB	38 (0; -2) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,4 W/(m²K)	5,4 W/(m²K)
Radiation properties			
Light transmission	3	0,85	0,86
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,63	0,65
Solar reflection		0,07	0,07
Solar factor (g-Value)		0,70	0,72
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S3.0-OW	
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	NPD	
Explosion resistance	1	NPD	
Burglar resistance	3	NPD	
Pendulum body impact resistance	3	2(B)2	
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	38 (0; -2) dB	
Thermal properties			
Emissivity	3	0,89	
U-value		5,4 W/(m²K)	
Radiation properties			
Light transmission	3	0,88	
Light reflection		0,08 / 0,08	
Solar energy characteristics			
Solar transmission	3	0,74	
Solar reflection		0,07	
Solar factor (g-Value)		0,79	
Durability	3	Pass	

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S2.1	Type 30 S3.1
Safety in the case of fire			
Resistance to fire	1	EI30	EI30
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	1(B)1	1(B)1
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	39 (-1; -3) dB	38 (0; -2) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,3 W/(m²K)	5,2 W/(m²K)
Radiation properties			
Light transmission	3	0,84	0,85
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,57	0,60
Solar reflection		0,06	0,06
Solar factor (g-Value)		0,66	0,68
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 45 S2.0	Type 45 S2.1
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	0,89	0,89
U-value		5,3 W/(m²K)	5,2 W/(m²K)
Radiation properties			
Light transmission	3	0,83	0,83
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,60	0,54
Solar reflection		0,07	0,06
Solar factor (g-Value)		0,68	0,64
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
			Type 45 S3.1
Safety in the case of fire			
Resistance to fire	1		EI45
Reaction to fire	3, 4		E
External fire behaviour	3, 4		NPD
Safety in use			
Bullet resistance	1		NPD
Explosion resistance	1		NPD
Burglar resistance	3		NPD
Pendulum body impact resistance	3		1(B)1
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		38 (0; -2) dB
Thermal properties			
Emissivity	3		0,89
U-value			5,2 W/(m²K)
Radiation properties			
Light transmission	3		0,86
Light reflection			0,08 / 0,08
Solar energy characteristics			
Solar transmission	3		0,64
Solar reflection			0,07
Solar factor (g-Value)			0,71
Durability	3		Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 60 S2.0	Type 60 S3.0
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	1(B)1	1(B)1
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	41 (0; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,2 W/(m²K)	5,1 W/(m²K)
Radiation properties			
Light transmission	3	0,82	0,87
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,56	0,70
Solar reflection		0,06	0,07
Solar factor (g-Value)		0,65	0,76
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 60 S2.1	Type 60 S3.1
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	1(B)1	1(B)1
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	41 (0; -3) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		5,1 W/(m²K)	5,0 W/(m²K)
Radiation properties			
Light transmission	3	0,81	0,86
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,51	0,67
Solar reflection		0,06	0,07
Solar factor (g-Value)		0,61	0,73
Durability	3	Pass	Pass

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 90 S3.0	Type 90 S3.1
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	1(B)1	1(B)1
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	44 (-1; -4) dB	44 (-1; -4) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		4,7 W/(m²K)	4,7 W/(m²K)
Radiation properties			
Light transmission	3	0,84	0,83
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,64	0,61
Solar reflection		0,07	0,06
Solar factor (g-Value)		0,71	0,69
Durability	3	Pass	Pass

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Jena, 11/07/2018

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ppa. Christian Jabschinsky



Unique identification code of the product Type:	PYRANOVA® Declaration of performance no. 1121 – CPR – CA0008/0022
Intended use:	Laminated and laminated safety glass 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
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 120 S3.0	Type 120 S3.1
Safety in the case of fire			
Resistance to fire	1	EI120	EI120
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	1(B)1	1(B)1
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	42 (-1; -4) dB	44 (-1; -4) dB
Thermal properties			
Emissivity	3	0,89	0,89
U-value		2,6 W/(m²K)	2,6 W/(m²K)
Radiation properties			
Light transmission	3	0,75	NPD
Light reflection		0,14 / 0,14	NPD
Solar energy characteristics			
Solar transmission	3	0,57	NPD
Solar reflection		0,11	NPD
Solar factor (g-Value)		NPD	NPD
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.

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S2.1.40 ¹	
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	NPD	
Explosion resistance	1	NPD	
Burglar resistance	3	NPD	
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	0,89	
U-value		4,8 W/(m²K)	
Radiation properties			
Light transmission	3	0,82	
Light reflection		0,07 / 0,07	
Solar energy characteristics			
Solar transmission	3	0,51	
Solar reflection		0,06	
Solar factor (g-Value)		0,61	
Durability	3	Pass	

¹ Design: TT-Float, 6 mm – PVB, 1,52mm – PYRANOVA® S2.0.11, 11 mm – PVB, 1,52mm – TT-Float, 6 mm

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S2.1.62 ²	Type 30 S2.1.63 ³
Safety in the case of fire			
Resistance to fire	1	EI30	EI30
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	0,89	0,89
U-value		5,1 W/(m ² K)	5,1 W/(m ² K)
Radiation properties			
Light transmission	3	0,83	0,82
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,55	0,54
Solar reflection		0,06	0,06
Solar factor (g-Value)		0,64	0,63
Durability	3	Pass	Pass

² Design: PYRANOVA® 30 S2.1 with Lami 4.4.4 – Nominal thickness overall: 22 mm

³ Design: PYRANOVA® 30 S2.1 with Lami 5.5.2 – Nominal thickness overall: 23 mm

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S2.1.64 ⁴	Type 30 S2.1.65 ⁵
Safety in the case of fire			
Resistance to fire	1	EI30	EI30
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	0,89	0,89
U-value		5,1 W/(m²K)	5,0 W/(m²K)
Radiation properties			
Light transmission	3	0,83	0,83
Light reflection		0,08 / 0,08	0,08 / 0,08
Solar energy characteristics			
Solar transmission	3	0,55	0,54
Solar reflection		0,06	0,06
Solar factor (g-Value)		0,64	0,63
Durability	3	Pass	Pass

⁴ Design: PYRANOVA® 30 S2.1 with Lami-SI 5.5.2 – Nominal thickness overall: 23 mm

⁵ Design: PYRANOVA® 30 S2.1 with Lami 4.4.6 – Nominal thickness overall: 22 mm

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Essential characteristics	AVCP systems	Declared performance/s	
		Type 30 S2.1.66 ⁶	Type 30 S2.1.81 ⁷
Safety in the case of fire			
Resistance to fire	1	EI30	EI30
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	0,89	0,89
U-value		5,0 W/(m²K)	5,1 W/(m²K)
Radiation properties			
Light transmission	3	0,82	0,82
Light reflection		0,07 / 0,07	0,07 / 0,07
Solar energy characteristics			
Solar transmission	3	0,52	0,53
Solar reflection		0,06	0,06
Solar factor (g-Value)		0,62	0,62
Durability	3	Pass	Pass

⁶ Design: PYRANOVA® 30 S2.1 with Lami 4.4.4.2.2 – Nominal thickness overall: 26 mm

⁷ Design: PYRANOVA® 30 S2.1 with Lami 6.6.2 – Nominal thickness overall: 25 mm

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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
E-Mail: info.pyran@schott.com

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