



Unique identification code of the product Type:	<b>ISO PYRAN® S</b> <b>Declaration of performance no. 1121 – CPR – CA0015</b>
Intended use:	Insulating glass units to be used in buildings and construction works
Manufacturer:	<b>SCHOTT Technical Glass Solutions GmbH</b> <b>Otto-Schott-Strasse 13</b> <b>07745 Jena</b> <b>Germany</b>
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	
		Type S5 - 12.1.120 <sup>1</sup>	Type S5 - 10.2.120 <sup>2</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E30	E30
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,6 W/(m²K)	1,4 W/(m²K)
<b>Radiation properties</b>			
Light transmission	3	0,81	0,81
Light reflection		0,14 / 0,15	0,14 / 0,15
<b>Solar energy characteristics</b>			
Solar transmission	3	0,59	0,59
Solar reflection		0,30	0,30
Solar factor (g-Value)		0,64	0,64
<b>Durability</b>	3	Pass	Pass

<sup>1</sup> Design: Outside - PYRAN® S 5 mm – Air filled 12mm – lowE Float 4 mm - Inside

<sup>2</sup> Design: Outside - PYRAN® S 5 mm – Argon filled 10mm – lowE Float 4 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	
		Type S5 - 15.1.120 <sup>3</sup>	Type S5 - 15.2.120 <sup>4</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E30	E30
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,4 W/(m <sup>2</sup> K)	1,1 W/(m <sup>2</sup> K)
<b>Radiation properties</b>			
Light transmission	3	0,81	0,81
Light reflection		0,14 / 0,15	0,14 / 0,15
<b>Solar energy characteristics</b>			
Solar transmission	3	0,59	0,59
Solar reflection		0,30	0,30
Solar factor (g-Value)		0,64	0,64
<b>Durability</b>	3	Pass	Pass

<sup>3</sup> Design: Outside - PYRAN® S 5 mm – Air filled 15mm – lowE Float 4 mm - Inside

<sup>4</sup> Design: Outside - PYRAN® S 5 mm – Argon filled 15mm – lowE Float 4 mm - Inside

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S5 - 15.1.128 <sup>5</sup>	Type S5 - 15.2.128 <sup>6</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E30	E30
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,4 W/(m <sup>2</sup> K)	1,1 W/(m <sup>2</sup> K)
<b>Radiation properties</b>			
Light transmission	3	0,80	0,80
Light reflection		0,13 / 0,14	0,13 / 0,14
<b>Solar energy characteristics</b>			
Solar transmission	3	0,54	0,54
Solar reflection		0,30	0,30
Solar factor (g-Value)		0,64	0,64
<b>Durability</b>	3	Pass	Pass

<sup>5</sup> Design: Outside - PYRAN® S 5 mm – Air filled 15mm – lowE Laminate-3.3.2-7mm - Inside

<sup>6</sup> Design: Outside - PYRAN® S 5 mm – Argon filled 15mm – lowE Laminate-3.3.2-7mm - Inside

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S 6 – 15.1.120 <sup>7</sup>	Type S6 - 15.2.120 <sup>8</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E60 / EW20	E60 / EW20
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,4 W/(m <sup>2</sup> K)	1,1 W/(m <sup>2</sup> K)
<b>Radiation properties</b>			
Light transmission	3	0,81	0,81
Light reflection		0,14 / 0,15	0,14 / 0,15
<b>Solar energy characteristics</b>			
Solar transmission	3	0,59	0,59
Solar reflection		0,31	0,31
Solar factor (g-Value)		0,64	0,64
<b>Durability</b>	3	Pass	Pass

<sup>7</sup> Design: Outside - PYRAN® S 6 mm – Air filled 15mm – lowE Float 4 mm - Inside

<sup>8</sup> Design: Outside - PYRAN® S 6 mm – Argon filled 15mm – lowE Float 4 mm - Inside

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S 6 – 15.1.128 <sup>9</sup>	Type S6 - 15.2.128 <sup>10</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E60 / EW20	E60 / EW20
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,4 W/(m²K)	1,1 W/(m²K)
<b>Radiation properties</b>			
Light transmission	3	0,80	0,80
Light reflection		0,14 / 0,15	0,14 / 0,15
<b>Solar energy characteristics</b>			
Solar transmission	3	0,54	0,54
Solar reflection		0,30	0,30
Solar factor (g-Value)		0,63	0,64
<b>Durability</b>	3	Pass	Pass

<sup>9</sup> Design: Outside - PYRAN® S 6 mm – Air filled 15mm – lowE Laminate-3.3.2-7mm - Inside

<sup>10</sup> Design: Outside - PYRAN® S 6 mm – Argon filled 15mm – lowE Laminate-3.3.2-7mm - Inside

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S 8 – 15.2.120 <sup>11</sup>	Type S6 - 15.1.000 <sup>12</sup>
<b>Safety in the case of fire</b>			
Resistance to fire	1	E60 / EW20	E60
Reaction to fire	3, 4	E	E
External fire behaviour	3, 4	NPD	NPD
<b>Safety in use</b>			
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
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	NPD
<b>Thermal properties</b>			
Emissivity	3	NPD	NPD
U-value		1,1 W/(m²K)	2,7 W/(m²K)
<b>Radiation properties</b>			
Light transmission	3	0,81	0,83
Light reflection		0,14 / 0,15	0,15 / 0,15
<b>Solar energy characteristics</b>			
Solar transmission	3	0,58	0,77
Solar reflection		0,30	0,14
Solar factor (g-Value)		0,64	0,81
<b>Durability</b>	3	Pass	Pass

<sup>11</sup> Design: Outside - PYRAN® S 8 mm – Argon filled 15mm – lowE Float 4 mm - Inside

<sup>12</sup> Design: Outside - PYRAN® S 6 mm – Air filled 15mm – Float 4 mm - Inside

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Essential characteristics	AVCP systems	Declared performance/s	
		Type S 5 – 15.1.136 <sup>13</sup>	
<b>Safety in the case of fire</b>			
Resistance to fire	1	E30	
Reaction to fire	3, 4	E	
External fire behaviour	3, 4	NPD	
<b>Safety in use</b>			
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	
<b>Protection against noise</b>			
Direct airborne sound reduction	3	NPD	
<b>Thermal properties</b>			
Emissivity	3	NPD	
U-value		1,4 W/(m²K)	
<b>Radiation properties</b>			
Light transmission	3	NPD	
Light reflection		NPD	
<b>Solar energy characteristics</b>			
Solar transmission	3	NPD	
Solar reflection		NPD	
Solar factor (g-Value)		NPD	
<b>Durability</b>	3	Pass	

<sup>13</sup> Design: Outside Float-Satinato 4 mm – Air filled 15mm – lowE PYRAN® S 5 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**  
E-Mail: [info.pyran@schott.com](mailto:info.pyran@schott.com)

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