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|---|---|
| Unique identification code of the product Type: | PYRAN® S Declaration of performance no. 2812 – CPR – CA0003 |
| Intended use: | Thermally toughened borosilicate safety glass to be used in buildings and construction works |
| Manufacturer: | F.A.Firman (HW) Ltd 19 Bates Road, Harold Wood Romford, Essex, RM3 0JH |
| Harmonised standard: | EN 13024-2:2004 |
| Notified bodies: | No.: 0086, 0402, 0432, 0589, 0672, 0757, 0761, 0786, 0832, 0833, 0843, 1139, 1166, 1234, 1288, 1314, 1322, 1343, 1396, 1644, 1812, 2502, 2812 |


| Essential characteristics | AVCP systems | Declared performance/s | |
|---|--------------|------------------------|---------------------|
| | | Type 5 mm | Type 6 mm |
| Safety in the case of fire | | | |
| Resistance to fire | 1 | E30 | E30, E60, E90, E120 |
| Reaction to fire | 3, 4 | A1 | A1 |
| 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(C)2 | 1(C)1 |
| Resistance against sudden temperature changes and temperature differentials | 4 | 300 K | 300 K |
| Resistance against wind, snow, permanent load and/or imposed loads | 4 | NPD | NPD |
| Protection against noise | | | |
| Direct airborne sound reduction | 3 | 30 (-2, -3) dB | 31 (-2, -3) dB |
| Thermal properties | | | |
| Emissivity | 3 | 0,89 | 0,89 |
| U-value | | 5,7 W/(m²K) | 5,7 W/(m²K) |
| Radiation properties | | | |
| Light transmission | 3 | 0,91 | 0,91 |
| Light reflection | | 0,08 / 0,08 | 0,08 / 0,08 |
| Solar energy characteristics | | | |
| Solar transmission | 3 | 0,89 | 0,89 |
| Solar reflection | | 0,07 | 0,08 |
| Solar factor (g-Value) | | 0,90 | 0,90 |
| 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:

Romford, Date

Signature


12/3/2026

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| Essential characteristics | AVCP systems | Declared performance/s | |
|---|--------------|------------------------|---------------------|
| | | Type 8 mm | Type 10 mm |
| Safety in the case of fire | | | |
| Resistance to fire | 1 | E30, E60, E90, E120 | E30, E60, E90, E120 |
| Reaction to fire | 3, 4 | A1 | A1 |
| 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(C)1 | 1(C)1 |
| Resistance against sudden temperature changes and temperature differentials | 4 | 300 K | 300 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 | 33 (-2, -3) dB |
| Thermal properties | | | |
| Emissivity | 3 | 0,89 | 0,89 |
| U-value | | 5,6 W/(m²K) | 5,6 W/(m²K) |
| Radiation properties | | | |
| Light transmission | 3 | 0,91 | 0,91 |
| Light reflection | | 0,08 / 0,08 | 0,08 / 0,08 |
| Solar energy characteristics | | | |
| Solar transmission | 3 | 0,88 | 0,87 |
| Solar reflection | | 0,08 | 0,08 |
| Solar factor (g-Value) | | 0,89 | 0,88 |
| Durability | 3 | Pass | Pass |

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| Essential characteristics | AVCP systems | Declared performance/s | |
|---|--------------|------------------------|--|
| | | Type 12 mm | |
| Safety in the case of fire | | | |
| Resistance to fire | 1 | E30, E60, E90, E120 | |
| Reaction to fire | 3, 4 | A1 | |
| 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(C)1 | |
| Resistance against sudden temperature changes and temperature differentials | 4 | 300 K | |
| Resistance against wind, snow, permanent load and/or imposed loads | 4 | NPD | |
| Protection against noise | | | |
| Direct airborne sound reduction | 3 | 34 (-2, -3) dB | |
| Thermal properties | | | |
| Emissivity | 3 | 0,89 | |
| U-value | | 5,5 W/(m²K) | |
| Radiation properties | | | |
| Light transmission | 3 | 0,91 | |
| Light reflection | | 0,08 / 0,08 | |
| Solar energy characteristics | | | |
| Solar transmission | 3 | 0,86 | |
| Solar reflection | | 0,08 | |
| Solar factor (g-Value) | | 0,88 | |
| Durability | 3 | Pass | |

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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.

F.A.Firman (HW) Ltd
E-Mail: sales@firmanglass.com

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