



**CE MARKING OF BELOW PRODUCTS FOLLOWING  
- EN 14449:2005 + AC:2005  
DECLARATION OF PERFORMANCES**



We

**FIRE GLASS UK LIMITED, 24-26 HAINGE ROAD, OLDBURY, WEST MIDLANDS B69 2NH. TEL: 0121 521 2180 FAX: 0121 521 2181**

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named below, intended to be used in buildings and construction works, following EN 14449:2005 + AC:2005

		MANUFACTURER: AGC GLASS				
CHARACTERISTICS IN :		AVCP SYSTEMS	PYROBELITE 7	PYROBELITE 9EG	PYROBELITE 12	PYROBELITE 12EG
1.	Resistance to fire (EN 13501-2)	1	EW30	EI20 / EW30	EI20 / EW60	EI20 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 - sl, d0	NPD	A2 - s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	3B3	1B1	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): Rw (C;Ctr)	3	34 (0; -3)	37 (-1; -2)	36 (-1; -3)	38 (-1; -3)
11.	- U-value (EN 673) - Normal emissivity $\epsilon_n$ coated side (EN 12898)	3	5,7 NPD	5,5 NPD	5,6 NPD	5,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	86 / 8 / 8	86 / 8 / 8	85 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / r_e / \rho'_e$ - Solar factor: g	3	73 / 7 / 7 76	63 / 6 / 6 70	65 / 7 / 7 71	58 / 6 / 6 67
14.	Durability	3	PASS	PASS	PASS	PASS

The performance of the product identified above is in conformity with the set of declared performances. The 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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Barry Lechat  
SHEQ Manager  
Signed at Oldbury



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		MANUFACTURER: AGC GLASS				
CHARACTERISTICS IN :		AVCP SYSTEMS	PYROBEL 16	PYROBEL 16EG	PYROBEL 25	PYROBEL 25EG
1.	Resistance to fire (EN 13501-2)	1	EI30 / EW60	EI30 / EW60	EI60	EI60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 - sl, d0	NPD	A2 - s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A	P1A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): Rw (C;Ctr)	3	39 (-1; -3)	39 (-1; -3)	40 (-1; -3)	43 (-1; -4)
11.	- U-value (EN 673) - Normal emissivity $\epsilon_n$ coated side (EN 12898)	3	5,3 NPD	5,3 NPD	5,1 NPD	5,0 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / r_e / \rho'_e$ - Solar factor: g	3	64 / 6 / 6 71	60 / 6 / 6 68	57 / 6 / 6 66	54 / 6 / 6 64
14.	Durability	3	PASS	PASS	PASS	PASS

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CHARACTERISTICS IN :		MANUFACTURER: PYROGUARD			
		PYROGUARD EI30 INT	PYROGUARD EI30 EXT	PYROGUARD EI60 INT	PYROGUARD EI60 EXT
1.	Resistance to fire (EN 13501-2)	EI30	EI30	EI60	EI60
2.	Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	15mm 3(1)3(1)3(1)3	19mm 3(1)3(1)3(1)3(1)3	23mm 3(1)3(1)3(1)3(1)3(1)3	27mm 3(1)3(1)3(1)3(1)3(1)3
10.	Direct airborne sound reduction (EN 12758): Rw (C;Ctr)	38 (-1; -3)dB	39 (-1; -3)dB	40 (-1; -3)dB	42 (-1; -3)dB
11.	Thermal properties	Total energy transmission factor: 0.71	Total energy transmission factor: 0.67	Total energy transmission factor: 0.66	Total energy transmission factor: 0.62
12.	Radiation properties - Light transmission	0.85	0.84	0.82	0.81
13.	Radiation properties - Light reflection	0.08	0.08	0.08	0.08
14.	Solar properties - Transmittance	0.63	0.57	0.56	0.51
15.	Solar properties - Reflectance	0.07	0.07	0.06	0.06

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October 2018/v4

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SHEQ Manager  
Signed at Oldbury



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		MANUFACTURER: PYROGUARD			
CHARACTERISTICS IN :		C730	11.4MM	C760	PYROSTEM (GWPP)
1.	Resistance to fire (EN 13501-2)	EW30	EW60	NPD (EI60 to BS476-22)	E30
2.	Reaction to fire (EN 13501-1)	NPD	NPD	NPD	A1
3.	External fire performances	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	2B2	2B2	3B3	3B3
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	3(1)3mm	3(1)3(1)3mm	3(1)3mm	7.2mm
10.	Direct airborne sound reduction (EN 12758): <sub>Rw</sub> (C;Ctr)	33 (-2; -3)dB <sub>Rw</sub>	35 (-2; -3)dB <sub>Rw</sub>	33 (-2; -3)dB <sub>Rw</sub>	31 (-2; -3)dB
11.	Thermal properties	5.7W (m <sup>2</sup> ,K)	5.6W (m <sup>2</sup> ,K)	5.7W (m <sup>2</sup> ,K)	5.7W (m <sup>2</sup> ,K)
12.	Radiation properties - Light transmission	0.87	0.85	0.87	87.8%
13.	Radiation properties - Light reflection	0.07	0.08	0.07	7.6%
14.	Solar properties - Transmittance	0.72	0.65	0.72	80.7%
15.	Solar properties - Reflectance	0.07	0.07	0.07	6.9%

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**MANUFACTURER: GUARDIAN GLASS - LamiGlass® ExtraClear 06mm**

CHARACTERISTICS IN :		3.3.1	3.3.2	3.3.3	3.3.4	3.3.6
1.	Resistance to fire	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance	NPD	P2A	NPD	P4A	NPD
7.	Pendulum body impact resistance (EN 12600)	2B2	1B1	NPD	1B1	NPD
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	6mm	6mm	6mm	6mm	6mm
10.	Direct airborne sound insulation	32 (-1; -3)dB	32 (-1; -3)dB	32 (-1; -3)dB	32 (-1; -3)dB	32 (-1; -3)dB
11.	Thermal properties - Thermal transmission (U-value)	5.7W/(m².K)	5.7W/(m².K)	5.7W/(m².K)	5.7W/(m².K)	5.6W/(m².K)
12.	Radiation properties - Light transmission $\tau_v$	0.90	0.90	0.90	0.90	0.90
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.79	0.78	0.77	0.75	0.74
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07	0.07

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CHARACTERISTICS IN :		MANUFACTURER: GUARDIAN GLASS - LamiGlass® ExtraClear 08mm					
		4.4.1	4.4.2	4.4.3	4.4.4	4.4.6	4.4.8
1.	Resistance to fire	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	P3A	P4A	P5A	P6B
7.	Pendulum body impact resistance (EN 12600)	2B2	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	8mm	8mm	8mm	8mm	8mm	8mm
10.	Direct airborne sound insulation	33 (-1; -3)dB	33 (-1; -3)dB	33 (-1; -3)dB	33 (-1; -3)dB	33 (-1; -3)dB	33 (-1; -3)dB
11.	Thermal properties - Thermal transmission (U-value)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)
12.	Radiation properties - Light transmission $\tau_v$	0.90	0.90	0.90	0.90	0.89	0.89
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.77	0.76	0.75	0.74	0.73	0.73
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07	0.07	0.07

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**MANUFACTURER: GUARDIAN GLASS - LamiGlass® ExtraClear 12mm**

CHARACTERISTICS IN :		5.5.1	5.5.2	5.5.3	5.5.4	5.5.6	6.4.2	6.4.2	6.4.4	6.4.6
1.	Resistance to fire	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	NPD	P4A	P5A	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	NPD	1B1	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K	40K	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm	10mm
10.	Direct airborne sound insulation	34 (-1; -3)dB	34 (-1; -3)dB	34 (-1; -3)dB	34 (-1; -3)dB	34 (-1; -3)dB	NPD	NPD	NPD	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)	5.6W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)
12.	Radiation properties - Light transmission $\tau_v$	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.76	0.74	0.73	0.72	0.71	0.76	0.74	0.72	0.71
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

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		MANUFACTURER: GUARDIAN GLASS - LamiGlass® ExtraClear 12mm					
CHARACTERISTICS IN :		6.6.1	6.6.2	6.6.3	6.6.4	6.6.6	6.6.8
1.	Resistance to fire	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	NPD	P4A	P5A	P6B
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	NPD	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	12mm	12mm	12mm	12mm	12mm	12mm
10.	Direct airborne sound insulation	35 (-1; -3)dB	35 (-1; -3)dB	35 (-1; -3)dB	35 (-1; -3)dB	35 (-1; -3)dB	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.5W/(m².K)	5.4W/(m².K)
12.	Radiation properties - Light transmission $\tau_v$	0.89	0.89	0.89	0.89	0.88	0.88
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.74	0.73	0.72	0.70	0.69	0.68
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07	0.07	0.07

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		MANUFACTURER: GUARDIAN GLASS - LamiGlass® ExtraClear 16mm					
CHARACTERISTICS IN :		8.8.1	8.8.2	8.8.3	8.8.4	8.8.6	8.8.8
1.	Resistance to fire	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	NPD	P4A	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	NPD	1B1	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	16mm	16mm	16mm	16mm	16mm	16mm
10.	Direct airborne sound insulation	36 (-1; -3)dB	36 (-1; -3)dB	36 (-1; -3)dB	36 (-1; -3)dB	36 (-1; -3)dB	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.4W/(m².K)	5.4W/(m².K)	5.4W/(m².K)	5.4W/(m².K)	5.3W/(m².K)	NPD
12.	Radiation properties - Light transmission $\tau_v$	0.88	0.88	0.88	0.88	0.88	0.87
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.70	0.69	0.68	0.67	0.67	0.66
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07	0.07	0.07

NPD = No Performance Determined

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Barry Lechat  
SHEQ Manager  
Signed at Oldbury



**CE MARKING OF BELOW PRODUCTS FOLLOWING  
- EN 14449:2005 + AC:2005  
DECLARATION OF PERFORMANCES**



We

**FIRE GLASS UK LIMITED, 24-26 HAINGE ROAD, OLDBURY, WEST MIDLANDS B69 2NH. TEL: 0121 521 2180 FAX: 0121 521 2181**

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named below, intended to be used in buildings and construction works, following EN 14449:2005 + AC:2005

**MANUFACTURER: GUARDIAN GLASS – LamiGlass® Acoustic 06mm**

CHARACTERISTICS IN :		3.3.1 SR	3.3.2 SR	3.3.4 SR
1.	Resistance to fire	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	NPD
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	6mm	6mm	6mm
10.	Direct airborne sound insulation	36 (-1; -3)dB	35 (-1; -3)dB	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.7W/(m <sup>2</sup> .K)	5.7W/(m <sup>2</sup> .K)	5.6W/(m <sup>2</sup> .K)
12.	Radiation properties - Light transmission $\tau_v$	0.90	0.90	0.90
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.79	0.78	0.75
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07

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SHEQ Manager  
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**MANUFACTURER: GUARDIAN GLASS – LamiGlass® Acoustic 08mm**

CHARACTERISTICS IN :		4.4.1 SR	4.4.2 SR	4.4.4 SR	4.4.6 SR
1.	Resistance to fire	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	P4A	P5A
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	8mm	8mm	8mm	8mm
10.	Direct airborne sound insulation	38 (-1; -4)dB	38 (-1; -4)dB	37 (-1; -3)dB	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.6W/(m <sup>2</sup> .K)	5.6W/(m <sup>2</sup> .K)	5.6W/(m <sup>2</sup> .K)	5.6W/(m <sup>2</sup> .K)
12.	Radiation properties - Light transmission $\tau_v$	0.90	0.90	0.90	0.90
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.77	0.74	0.74	0.72
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07

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		MANUFACTURER: GUARDIAN GLASS – LamiGlass® Acoustic 10mm			
CHARACTERISTICS IN :		5.5.1 SR	5.5.2 SR	5.5.4 SR	6.4.2 SR
1.	Resistance to fire	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	P4A	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	10mm	10mm	10mm	10mm
10.	Direct airborne sound insulation	39 (-1; -4)dB	39 (-1; -3)dB	NPD	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.5W/(m <sup>2</sup> .K)	5.5W/(m <sup>2</sup> .K)	5.5W/(m <sup>2</sup> .K)	5.5W/(m <sup>2</sup> .K)
12.	Radiation properties - Light transmission $\tau_v$	0.89	0.89	0.89	0.89
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.75	0.74	0.72	0.74
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07

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**MANUFACTURER: GUARDIAN GLASS – LamiGlass® Acoustic 12mm**

CHARACTERISTICS IN :		6.6.1 SR	6.6.2 SR	6.6.4 SR	6.6.6 SR
1.	Resistance to fire	NPD	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD	NPD
6.	Burglar resistance	P1A	P2A	P4A	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	NPD
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	12mm	12mm	12mm	12mm
10.	Direct airborne sound insulation	39 (0; -3)dB	39 (0; -3)dB	NPD	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.5W/(m <sup>2</sup> .K)	5.5W/(m <sup>2</sup> .K)	5.5W/(m <sup>2</sup> .K)	5.4W/(m <sup>2</sup> .K)
12.	Radiation properties - Light transmission $\tau_v$	0.89	0.89	0.89	0.88
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.74	0.72	0.70	0.69
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07	0.07

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MANUFACTURER: GUARDIAN GLASS - LamiGlass® Acoustic 16mm

CHARACTERISTICS IN :		8.8.1 SR	8.8.2 SR	8.8.4 SR
1.	Resistance to fire	NPD	NPD	NPD
2.	Reaction to fire	NPD	NPD	NPD
3.	External fire performances	NPD	NPD	NPD
4.	Bullet resistance	NPD	NPD	NPD
5.	Explosion resistance	NPD	NPD	NPD
6.	Burglar resistance	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	40K	40K	40K
9.	Wind, snow, permanent and imposed load resistance	16mm	16mm	16mm
10.	Direct airborne sound insulation	41 (-1; -3)dB	41 (-1; -3)dB	NPD
11.	Thermal properties - Thermal transmission (U-value)	5.4W/(m <sup>2</sup> .K)	5.4W/(m <sup>2</sup> .K)	5.3W/(m <sup>2</sup> .K)
12.	Radiation properties - Light transmission $\tau_v$	0.88	0.88	0.88
13.	Radiation properties - Light reflection $\rho_v$	0.08	0.08	0.08
14.	Solar energy transmission $\tau_E$	0.71	0.70	0.68
15.	Solar energy reflection $\rho_E$	0.07	0.07	0.07

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October 2018/v4