

Pyrobelite / Pyrobel

Declaration of performances



UKCA Marking of Pyrobel – EN 14449:2005 + AC:2005
Certificate N° 1121-CPR-UK-CA7002
NB 1121
Declaration of performances – Pyrobelite



We


AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

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

	Pyrobelite characteristics in :	AVCP Systems	Pyrobelite 7	Pyrobelite 10	Pyrobelite 9 EG
1.	Resistance to fire (EN 13501-2)	1	EW30	EW30	EI20 / EW30
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	P2A
7.	Pendulum body impact resistance (EN 12600)	3	3B3	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (0;-3)	37 (-1;-3)	37 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 NPD	5,5 NPD	5,5 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 7 / 7 79	70 / 7 / 7 76	63 / 6 / 6 70
14.	Durability	3	PASS	PASS	PASS

Louvain La Neuve
 24th of March 2022


 E. Ceriani
 Vice President Primary Glass
 Building & Industrial division



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	Pyrobelite characteristics in :	AVCP Systems	Pyrobelite 12	Pyrobelite 12 EG
1.	Resistance to fire (EN 13501-2)	1	EI20 / EW60	EI20 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	36 (-1;-3)	38 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 NPD	5,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	69 / 7 / 7 75	63 / 6 / 6 70
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 8	Pyrobel 8 EG
1.	Resistance to fire (EN 13501-2)	1	EI15 / EW30	EI15 / EW30
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-3)	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 NPD	5,5 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	72 / 7 / 7 77	66 / 7 / 7 72
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 16	Pyrobel 16 EG
1.	Resistance to fire (EN 13501-2)	1	EI30 / EW60	EI30 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	39 (-1;-3)	39 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 NPD	5,3 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 8 / 8	84 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	64 / 6 / 6 71	60 / 6 / 6 68
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 17N	Pyrobel 17N EG
1.	Resistance to fire (EN 13501-2)	1	EI45 / EW60	EI45 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	39 (0;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,4 NPD	5,2 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86 / 8 / 8	85 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	65 / 6 / 6 71	60 / 6 / 6 68
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 25	Pyrobel 25 EG
1.	Resistance to fire (EN 13501-2)	1	EI60	EI60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	40 (-1;-3)	43 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,1 NPD	5,0 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7	82 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	57 / 6 / 6 66	54 / 6 / 6 64
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 30	Pyrobel 30 EG	Pyrobel 30 EG2
1.	Resistance to fire (EN 13501-2)	1	EI90	EI90	EI90
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A	P2A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	42 (-1;-4)	43 (-1;-4)	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,0 NPD	4,8 NPD	4,8 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 6 / 6 65	52 / 6 / 6 62	50 / 6 / 6 61
14.	Durability	3	PASS	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 53N	Pyrobel 53N EG
1.	Resistance to fire (EN 13501-2)	1	EI120	EI120
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	48 (-2;-7)	49 (-1;-6)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 NPD	4,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	75 / 7 / 7	73 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	43 / 5 / 5 55	40 / 5 / 5 53
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 54	Pyrobel 54 EG
1.	Resistance to fire (EN 13501-2)	1	EI120	EI120
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P2A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	49 (-1;-4)	49 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,4 NPD	4,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	75 / 7 / 7	74 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	42 / 5 / 5 55	43 / 5 / 5 55
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 81	Pyrobel 81 EG
1.	Resistance to fire (EN 13501-2)	1	EI180	EI180
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P2A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,4 NPD	4,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	68 / 6 / 6
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	35 / 4 / 4 50	35 / 4 / 4 50
14.	Durability	3	PASS	PASS

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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 19H	Pyrobel 23H	Pyrobel 28H
1.	Resistance to fire (EN 13501-2)	1	EI30	EI45	EI60
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	38 (-1;-3)	39 (0;-3)	41 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,2 NPD	5,1 NPD	5,0 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 8 / 8	83 / 8 / 8	78 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 6 / 6 68	57 / 6 / 6 66	50 / 6 / 6 60
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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 33H
1.	Resistance to fire (EN 13501-2)	1	EI60
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD
13.	- Solar transmission/reflection/factor (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD
14.	Durability	3	PASS

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