Pyrobelite / Pyrobel

AGC	**CE Marking of Pyrobelite – EN 14449:2005 + AC:2005** **Certificate N° 2812-CPR-CA0004** **Declaration of performances - Pyrobelite**	CE

We

AGC Glass Europe
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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**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531 2812

	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): Rw (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): τ_v / ρ_v / ρ'_v	3	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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
19th of August 2021

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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): Rw (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): τ_v / ρ_v / ρ'_v	3	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	85 / 8 / 8	84 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	86 / 8 / 8	85 / 8 / 8
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	82 / 7 / 7	82 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	81 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	75 / 7 / 7	73 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	75 / 7 / 7	74 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	68 / 6 / 6	68 / 6 / 6
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_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): Rw (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): τ_v / ρ_v / ρ'_v	3	85 / 8 / 8	83 / 8 / 8	78 / 7 / 7
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	61 / 6 / 6 68	57 / 6 / 6 66	50 / 6 / 6 60
14.	Durability	3	PASS	PASS	PASS

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531 2812

	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): Rw (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): τ_v / ρ_v / ρ'_v	3	NPD
13.	- Solar transmission/reflection/factor (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD
14.	Durability	3	PASS

Louvain La Neuve
19th of August 2021

E. Ceriani
Vice President Primary Glass
Building & Industrial division