

## CONTRAFLAM 60-3 CLIMAPLUS

Intended to be used in buildings and construction works

NB: 0336,0497,0679,0757,0809,1136,1154,1174,1234,1322,1694,1717,1750,1751,3021

EN 1279-5:2018 / 2007 / DOP-ID: ZY021939

Essential characteristics	Unit	AVCP systems	Performance
<b>Safety in case of fire</b>			
Resistance to fire		1	EI60
Reaction to fire		3	B-s1, d0
External fire performance		3	NPD
<b>Safety in use</b>			
Bullet resistance		1	NPD
Explosion resistance		1	NPD
Burglar resistance		3	P1A
Pendulum body impact resistance		3	1(C)2/1(B)1
Resistance against sudden temperature changes and temperature differentials	[K]	3	NPD
Wind, snow, permanent and imposed load resistance	[mm]	3	NPD
<b>Protection against noise</b>			
Direct airborne sound insulation	[dB]	3	NPD
<b>Thermal properties</b>			
U-value	[W/m2K]	3	1.0
<b>Radiation properties</b>			
Light transmission	$\tau_L$	3	65%
Light reflection	$\rho^L / \rho'^L$	3	14%/16%
<b>Solar energy properties</b>			
Solar energy transmission	$\tau_e$	3	31%
Solar energy reflection	$\rho_e / \rho'_e$	3	33%/19%
Solar factor g-value		3	0.36
<b>Durability</b>		3	NPD
<b>Release of dangerous substances</b>			NONE

NPD: No Performance Declared

The performance of the product identified is in conformity with the declared performance above. This declaration of performance is issued under the sole responsibility of the manufacturer. Sign behalf of the manufacturer by:

**Manufacturer**

Vetrotech Saint-Gobain International AG  
 Industriestrasse 44  
 3175 Flamatt  
 Switzerland

**Name and Position**

Reto Cometta, CEO

**Place and Date**

Flamatt 07.06.2024

**Signature**



Certificate Number  
 0336-CPR-5064D-120

## CONTRAFLAM 90-4 (5/4/4/4/5)

Intended to be used in buildings and construction works

NB: 0336,0497,0679,0757,0809,1136,1154,1174,1234,1322,1694,1717,1750,1751,3021

EN 14449 / 2007 / DOP-ID: Y7229544

Essential characteristics	Unit	AVCP systems	Performance
<b>Safety in case of fire</b>			
Resistance to fire		1	EI90
Reaction to fire		3	A2-s1, d0
External fire performance		3	NPD
<b>Safety in use</b>			
Bullet resistance		1	NPD
Explosion resistance		1	NPD
Burglar resistance		3	P1A
Pendulum body impact resistance		3	1(B)1
Resistance against sudden temperature changes and temperature differentials	[K]	3	NPD
Wind, snow, permanent and imposed load resistance	[mm]	3	NPD
<b>Protection against noise</b>			
Direct airborne sound insulation	[dB]	3	NPD
<b>Thermal properties</b>			
U-value	[W/m <sup>2</sup> K]	3	0.7
<b>Radiation properties</b>			
Light transmission	$\tau_L$	3	81%
Light reflection	$\rho^L / \rho'^L$	3	10%/10%
<b>Solar energy properties</b>			
Solar energy transmission	$\tau_e$	3	NPD
Solar energy reflection	$\rho_e / \rho'_e$	3	8%/8%
Solar factor g-value		3	NPD
<b>Durability</b>		3	NPD
<b>Release of dangerous substances</b>			NONE

NPD: No Performance Declared

The performance of the product identified is in conformity with the declared performance above. This declaration of performance is issued under the sole responsibility of the manufacturer. Sign behalf of the manufacturer by:

**Manufacturer**

Vetrotech Saint-Gobain International AG  
 Industriestrasse 44  
 3175 Flamatt  
 Switzerland

**Name and Position**

Reto Cometta, CEO

**Place and Date**

Flamatt 21.12.2022

**Signature**



Certificate Number  
 0336-CPR-5064C-IL

# Declaration of Performance

## No: FMV0600Z



### Şişecam Blue

6 mm

EN 572-9:2004  
Notified Body: 1174


Basic soda lime silicate float glass, intended to be used in buildings and construction works

Characteristics	AVCP System	Performance
Safety in the case of fire:		
Resistance to fire (13501-2)	1	NPD
Reaction to fire (13501-1)	3.4	A1
External fire behaviour (EN 13501-5)	3.4	NPD
Safety in use:		
Bullet resistance (EN 1063)	1	NPD
Explosion resistance (EN 13541)	1	NPD
Burglar resistance (EN 356)	3	NPD
Pendulum body impact resistance (EN 12600)	3	NPD
Resistance against sudden temperature changes and temperature differentials	4	40K
Wind, snow, permanent and imposed load resistance of the glass unit	4	6 mm
Protection against noise:		
Direct airborne sound reduction (EN 12758)	4	31 (-2; -3) dB
Thermal properties:		
U-value (EN 673)	3	5.7 W/(m <sup>2</sup> K)
Normal emissivity (EN 12898)	3	0.89
Radiation properties (EN 410):		
Light transmission	3	0.55
Light reflection	3	0.06
Light reflection	3	0.06
Solar energy characteristics (EN 410):		
Solar transmission	3	0.42
Solar reflection	3	0.05
Solar reflection	3	0.05

NPD: No performance determined.

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:

Name and function	Place and date of issue	Signature
Alper Emniyetli Product and Brand Management Director	10.05.2024 İstanbul	

#### TÜRKİYE ŞİŞE VE CAM FABRİKALARI A.Ş.

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## Saint-Gobain Building Glass Europe

Tour Saint-Gobain 12 place de l'Iris 92400 Courbevoie France

EN 14449:2005+AC: 2005 - Laminated glass and laminated safety glass intended to be used in buildings and construction works

STADIP PLANITHERM XN F4 44.1  
L0105615

NB: 0336, 0497, 0679, 0757, 0809, 1004, 1116, 1136, 1154, 1174, 1234, 1322, 1694, 1717, 1750, 1751

ESSENTIAL CHARACTERISTICS	AVCP SYSTEMS	PERFORMANCES
<b>For uses relating to safety in case of fire:</b>		
Resistance to fire	1	NPD
Reaction to fire	3,4	NPD
External fire performance	3,4	NPD
<b>For uses as anti-bullet or anti-explosion glazing</b>		
Bullet resistance	1	NPD
Explosion resistance	1	NPD
<b>For uses liable to present "safety-in-use" risks and subject to such regulations</b>		
Burglar resistance	3	NPD
Pendulum body impact resistance	3	2B2
Resistance against sudden temperature changes and temperature differentials (K)	4	40
Wind, snow, permanent and imposed load resistance (N/mm <sup>2</sup> )	4	45/45
<b>For uses relating to noise reduction</b>		
Direct airborne sound insulation (dB)	3	34(-1;-3)
<b>For uses relating to energy conservation</b>		
Emissivity $\tau_g$	3	0.03
U-value (W/(m <sup>2</sup> .K))	3	NPD
Light transmittance $\tau_v$	3	0.89
Light reflectance $\rho_{s,v}$	3	0.05/0.04
Solar direct transmittance $\tau_{s,d}$	3	0.59
Solar direct reflectance	3	0.17/0.26
g-value	3	0.62
Durability	3	NPD

PLANICLEAR 4 mm / 1 - PVB CLEAR / PLANITHERM XN 4 mm

NPD : No Performance Determined

The performance of the product is in conformity with the declared performances.  
This declaration of performance is issued under the sole responsibility of the manufacturer.  
Signed for and on behalf of the manufacturer by:

Fabrice Desmons  
International Product Strategy Director Building Glass

24/01/2022  
Courbevoie - France

