Declaration of Performance

ZY005045

CONTRAFLAM 60-3 CLIMAPLUS

Intended to be used in buildings and construction works

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

EN 1279-5:2018 - 2007 / ZY005045

Essential characteristics	Unit	AVCP systems	Performance
Safety in case of fire			
Resistance to fire		1	EI 60
Reaction to fire		3,4	B-s1, d0
External fire performance		3,4	NPD
Safety in use			
Bullet resistance		1	NPD
Explosion resistance		1	NPD
Burglar resistance		3	P1A
Pendulum body impact resistance		3	1(B)1/NPD
Resistance against sudden temperature changes and temperature differentials	[K]	3	NPD
Wind, snow, permanent and imposed load resistance	[mm]	3	NPD
Protection against noise			
Direct airborne sound insulation	[dB]	3	NPD
Thermal properties			
U-value	[W/m2K]	3	1.1
Radiation properties			
Light transmission	τ_L	3	76%
Light reflection	ρ_L / ρ'_L	3	13% / 13%
Solar energy properties			
Solar energy transmission	τ_e	3	48%
Solar energy reflection	ρ_e / ρ'_e	3	28% / 13%
Solar factor g-value		3	0.6
Durability		**3**	**NPD**
Release of dangerous substances			**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 responsibility of the manufacturer. Signed for and on behalf of the manufacturer by:

Name and Position

Guillaume Le Gavrian, CEO

Place and Date

Flamatt 27.02.2018

Signature

Vetrotech Saint-Gobain International AG
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3175 Flamatt
Switzerland

www.vetrotech.com

Certificate Number 0336-CPR-5
064D

Pane 1	PLANICLEAR (4 mm) PLANITHERM XN
Cavity 1	ARGON (90%) / AIR (10%) / 14 mm
Pane 2	CF60-3 5445 (27 mm)

Vetrotech Steyr

Marlies Bramel

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LUMINOUS FACTORS

CIE (15-2004)

Light transmission (TL %)	75 %
Outdoor reflection (RLe %)	13 %
Indoor (RLi %)	13 %

SOLAR FACTORS

EN410 (2011-04)

Solar factor (g)	0,59
Shading Coefficient (SC)	0,67

COLOR RENDERING

CIE (15-2004)

Transmission (Ra)	95,4
Reflection (Ra)	95,2

ENERGY FACTORS

EN410 (2011-04)

Transmission (Te)	47 %
Reflection (Ree)	26 %
Indoor (Rei)	13 %
Absorption (AE1)	14 %
Absorption (AE2)	13 %

THERMAL TRANSMISSION

EN673 (2011-04)

Ug	1,1 W/m².K
0° related to vertical position	

MANUFACTURING SIZES

Nominal thickness	45,0 mm
Weight	69 kg/m²