



Trakya Cam Sanayii A.Ş.
Adres: İş Kuleleri Kule 3 34330
4.Levent- İSTANBUL/TÜRKİYE
07

EN 14449

Laminated safety glass, intended to be used in buildings and construction works

**Clear Float Glass + Transparent PVB + HELİO® Bronze,
LAMEKS® 33.1**

Characteristics

Resistance to fire	NPD
Reaction to fire	NPD
External fire behaviour	NPD
Bullet resistance	NPD
Explosion resistance	NPD
Burglar resistance	NPD
Pendulum body impact resistance	2 (B) 2
Resistance against sudden temperature changes and temperature differentials	NPD
Wind, snow, permanent and imposed load resistance of the glass unit	33.1
Direct airborne sound reduction	32 (-1; - 3) dB
Thermal properties	
U-value (EN 673)	5,7 W / (m ² K)
Normal emissivity (EN 12898)	0,89
Radiation properties	
Light transmission and reflection	0,67 / 0,06
Solar energy characteristics	0,58 / 0,06

NPD: No Performance Determined



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**Clear Float Glass + Transparent PVB + HELİO® Bronze,
LAMEKS® 44.1**

Characteristics

Resistance to fire	NPD
Reaction to fire	NPD
External fire behaviour	NPD
Bullet resistance	NPD
Explosion resistance	NPD
Burglar resistance (EN 356)	P1A
Pendulum body impact resistance	2 (B) 2
Resistance against sudden temperature changes and temperature differentials	NPD
Wind, snow, permanent and imposed load resistance of the glass unit	44.1
Direct airborne sound reduction	33 (-1; - 3) dB
Thermal properties	
U-value (EN 673)	5,6 W / (m ² K)
Normal emissivity (EN 12898)	0,89
Radiation properties	
Light transmission and reflection	0,59 / 0,06
Solar energy characteristics	0,51 / 0,05

NPD: No Performance Determined



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Clear Float Glass + Transparent PVB + HELİO® Bronze,
LAMEKS® 44.2

Characteristics

Resistance to fire	NPD
Reaction to fire	NPD
External fire behaviour	NPD
Bullet resistance	NPD
Explosion resistance	NPD
Burglar resistance (EN 356)	P2A
Pendulum body impact resistance	1 (B) 1
Resistance against sudden temperature changes and temperature differentials	NPD
Wind, snow, permanent and imposed load resistance of the glass unit	44.2
Direct airborne sound reduction	33 (-1; - 3) dB
Thermal properties	
U-value (EN 673)	5,6 W / (m ² K)
Normal emissivity (EN 12898)	0,89
Radiation properties	
Light transmission and reflection	0,55 / 0,06
Solar energy characteristics	0,49 / 0,05

NPD: No Performance Determined



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Clear Float Glass + Transparent PVB + HELİO® Bronze,
LAMEKS® 55.1

Characteristics

Resistance to fire	NPD
Reaction to fire	NPD
External fire behaviour	NPD
Bullet resistance	NPD
Explosion resistance	NPD
Burglar resistance (EN 356)	P1A
Pendulum body impact resistance	1 (B) 1
Resistance against sudden temperature changes and temperature differentials	NPD
Wind, snow, permanent and imposed load resistance of the glass unit	55.1
Direct airborne sound reduction	34 (-1; - 3) dB
Thermal properties	
U-value (EN 673)	5,6 W / (m ² K)
Normal emissivity (EN 12898)	0,89
Radiation properties	
Light transmission and reflection	0.54 / 0.06
Solar energy characteristics	0.45 / 0.05

NPD: No Performance Determined



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**Clear Float Glass + Transparent PVB + HELIO® Bronze,
LAMEKS® 66.1**

Characteristics

Resistance to fire	NPD
Reaction to fire	NPD
External fire behaviour	NPD
Bullet resistance	NPD
Explosion resistance	NPD
Burglar resistance (EN 356)	P1A
Pendulum body impact resistance	1 (B) 1
Resistance against sudden temperature changes and temperature differentials	NPD
Wind, snow, permanent and imposed load resistance of the glass unit	66.1
Direct airborne sound reduction	34 (-1; - 3) dB
Thermal properties	
U-value (EN 673)	5,5 W / (m ² K)
Normal emissivity (EN 12898)	0,89
Radiation properties	
Light transmission and reflection	0,50 / 0,05
Solar energy characteristics	0,41 / 0,04

NPD: No Performance Determined