



# Declaration of Performance



Product:	4mm toughened clear - 12mm cavity - 4mm toughened clear
Intended Use:	Insulating glass units intended to be used in buildings and construction works
Manufacturer:	Crystal Units Limited, 100 West Hendon Broadway, London, NW9 7AA
Year marking was affixed:	13
AVCP System Number:	3
Applicable Standard:	BS EN 1279-5
Third Party Approval Licence No.	KM 530625
Notified Body / Number:	BSI Group / 2797

Essential Characteristics	Performance
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### Safety in the case of fire

Resistance to fire (for glass for use in a glazed assembly intended specifically for fire resistance)	NPD
Reaction to fire	A1 / A1
External fire performance (for roof coverings only)	NPD

### Safety in use

Bullet resistance: Shatter properties and resistance to attack	NPD
Explosion resistance: Impact behaviour and resistance to attack	NPD
Burglar resistance: Shatter properties and resistance to attack	NPD
Pendulum body impact resistance: Shatter properties (safe breakability) and resistance to impact	1C1 / 1C1
Mechanical resistance: Resistance against sudden temperature changes and temperature differentials	200 K / 200 K
Mechanical resistance: resistance against wind, snow, permanent and imposed and/or imposed loads of the glass unit and edge seal	4mm / 4mm

### Protection against noise

Direct airborne sound reduction	30 (-1;-3) dB
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### Thermal properties

Normal Emissivity	0.89 / 0.89
U-value (W/m <sup>2</sup> K)	2.8

### Radiation Properties

Light Transmittance	NPD
Light Reflection	NPD
Solar Energy Characteristics	NPD
Direct solar transmittance	NPD
Direct solar reflectance	NPD
solar factor (g-value)	NPD

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 on behalf of the manufacturer by: Phil Hallworth - Technical & Sales Director  
100 West Hendon Broadway, London, NW9 7AA  
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