



PLANITHERM[®] ULTRA N/N II

*Advanced performance
low-E glass*



LOW-E GLASS WITH ADVANCED THERMAL INSULATION PROPERTIES

PLANITHERM® ULTRA N is an advanced performance low-E coating, within the PLANITHERM® family.

APPLICATIONS

PLANITHERM® ULTRA N offers superior thermal insulation properties for the most demanding of glass specifications, where neutrality and excellent performance are paramount.

Commercial Solutions

- Façades and windows
- Structural glazing
- Overhead glazing

Also Suitable for Residential Solutions

- Windows and skylights
- Patio doors, French doors and other external doors
- Conservatories and sunrooms

BENEFITS

Enhanced Thermal Insulation

- With an optimum centre-pane U-value of 1.1 W/m².K (90% argon-filled), PLANITHERM® ULTRA N can comfortably meet current Building Regulations by improving whole window U-values for all frame types
- Particularly suited to commercial applications using steel and aluminium frames for optimum energy efficiency
- Helps to reduce heating requirements

Comfort and Aesthetics

- Helps to eliminate cold areas around windows resulting in greater comfort
- Maximises use of living and working areas
- Reduces incidence of condensation on the inner pane
- Neutral appearance in both transmission and reflection
- Maximises entry of natural daylight

DESCRIPTION

PLANITHERM® ULTRA N is manufactured on a magnetron coater. A unique combination of metal oxide layers are applied to high quality PLANICLEAR® clear float glass using a magnetically enhanced cathodic sputtering process under vacuum conditions.

INSTRUCTIONS FOR USE

PLANITHERM® ULTRA N must always be processed into an insulating glass unit (IGU). PLANITHERM® ULTRA N II must always be tempered prior to its manufacture within the IGU.

RANGE

Monolithic Glass

Standard thickness: 6-8-10mm
Substrate: PLANICLEAR® clear float.

Toughened Glass

PLANITHERM® ULTRA N II can be toughened to meet the safety glazing performance requirements of BS EN 12150. Critically, once toughened, this product has the same thermal performance and aesthetics as annealed PLANITHERM® ULTRA N.

Laminated Glass

STADIP®, STADIP® PROTECT laminated glass and STADIP® SILENCE acoustic laminated glass in most common configurations.

PERFORMANCE DATA

	Double Glazed Unit (DGU)	
Internal Pane	PLANITHERM® ULTRA N	PLANITHERM® ULTRA N II
External Pane	PLANICLEAR®	PLANICLEAR®
Composition in mm	6(16)6	
Low-Emissivity Coating Position	Face 3	
Light Transmittance, T _L	79%	79%
Light Reflectance, External, R _{LE}	12%	12%
Light Reflectance, Internal, R _{LI}	12%	12%
Solar Factor, g Value (Argon (90%))	0.62	0.63
U-value in W/m ² .K* (Argon (90%))	1.1	

PLANITHERM® ULTRA N and PLANITHERM® ULTRA N II meet the durability requirements of Class C of European Standard EN 1096 and are CE and UKCA marked. Light and solar performance according to EN 410. *Centre-pane U-values have been rounded in accordance with EN 673. Performance data calculated using Calumen III 1.27 and is correct at the time of publishing (13.03.2024) but is subject to change at any time.





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