

SGG PLANITHERM®  
ULTRA N/ULTRA N II

*Advanced  
performance  
low-E glass*



# SGG PLANITHERM® ULTRA N/N II

Low-E glass with advanced thermal insulation properties

SGG PLANITHERM ULTRA N is an advanced performance low-E coating, further extending the SGG PLANITHERM family, Europe's best selling low-emissivity (low-E) glass and one of the UK's leading offline low-E coating brands.

## Applications

SGG 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 1.1W/m<sup>2</sup>K (90% argon-filled), SGG 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
- environmentally friendly solution, given the lower CO<sub>2</sub> emissions associated with reduced energy consumption

### Comfort & 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

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

## Range

### Monolithic Glass:

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

### Toughened Glass:

SGG 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 SGG PLANITHERM ULTRA N.

### Laminated Glass:

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

## Instructions for use

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

For full processing and handling guidelines, please request a copy of the detailed "Guidance for Use low-E Coated Glass" documents and accompanying summary brochure.

## Technical Specifications

### Performance Data

	DGU	
Composition in mm	6(16)6	
Coating Positions	Face 3	
	SGG PLANITHERM ULTRA N	SGG PLANITHERM ULTRA N II
LT	79%	79%
LRe	12%	12%
g-value*	0.62	0.63
Shading Coefficient	0.71	0.72
U-Value in W/m <sup>2</sup> K Air	1.4	
90% Argon	1.1	

SGG PLANITHERM ULTRA N and SGG PLANITHERM ULTRA N II meet the durability requirements of class C of European standards EN 1096 and are CE marked.

\* Light and solar performance according to EN 410.

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