



BS EN 1279:2002

GLASS IN BUILDING  
INSULATING GLASS UNITS

# DECLARATION OF PERFORMANCE

THIS IS TO CERTIFY THAT

**GLASS SERVICES LTD**

of

WOTTON ROAD  
KINGSNORTH INDUSTRIAL ESTATE  
ASHFORD  
KENT  
TN23 6LN

HAVE CONFORMED WITH EN 1279-5 ANNEX ZA

by

(a) SUBMITTING PLAIN INSULATING GLASS UNITS FOR TESTING TO BS EN 1279 PART 2 AND SUCCESSFULLY MEETING ALL REQUIREMENTS.

Please refer to Test Report No. 262/4467670  
System Description Ref: GSL01A  
ITT conducted by: BSI PRODUCT SERVICES

SUBMITTING PLAIN INSULATING GLASS UNITS FOR TESTING TO BS EN 1279 PART 3 AND SUCCESSFULLY MEETING ALL REQUIREMENTS.

Please refer to Test Report No. TQS-RAP-07-2091  
System Description Ref: GSL 01A  
ITT conducted by: TNO Quality Services BV

(b) INSTIGATING AND IMPLEMENTING A SYSTEM OF FACTORY PRODUCTION CONTROL COMPLYING WITH BS EN 1279 PART 6

(c) HAVING UNITS TESTED TO THE REQUIREMENTS EN 1279 PART 6 BY CENSOLUTIONS LTD

(d) PRODUCING A TECHNICAL FILE CONTAINING THE TEST REPORT AND PERFORMANCE INDICATION PAPERS FOR ALL COMPONENTS

Signed:.....

Position:.....

Date:.....

*B. Williams*  
Director

3-5-13



GLASS SERVICES LTD

WOTTON ROAD

KINGSNOTH INDUSTRIAL ESTATE

ASHFORD

KENT

TN23 6LN

13

EN 1279-5

Insulated glass units, intended to be used in buildings and construction works

System: 4mm Clear - 6mm Spacer Air - 4mm Clear (Worst Case Scenario IGU)

Characteristics

|   |                       |
|---|-----------------------|
| Resistance to fire  | npd                   |
| Reaction to fire  | A1                    |
| External fire performance   | npd                   |
| Bullet resistance   | npd                   |
| Explosion resistance  | npd                   |
| Burgular resistance   | npd                   |
| Pendulum body impact resistance   | npd                   |
| Resistance against sudden temperature changes and temperature differentials | $\geq 40+40K$         |
| Wind, snow permanent and imposed load resistance                            | $\geq 4+4$ mm         |
| Direct airborne sound insulation  | $\leq 31$ (-2; -5) dB |
| Thermal properties  | $\leq 3.3W/(m^2K)$    |
| <u>Radiation properties:</u>  |                       |
| light transmission and reflection   | $\geq 0.82/0.15$      |
| solar energy characteristics  | $\geq 0.73/0.13$      |

Signed:.....

Position:.....

*B. Williams*  
Director

Date:.....

3-5-13



GLASS SERVICES LTD  
WOTTON ROAD  
KINGSNOTH INDUSTRIAL ESTATE  
ASHFORD  
KENT  
TN23 6LN  
13

EN 1279-5

Insulated glass units, intended to be used in buildings and construction works

System: 4mm Clear Toughened - 6mm Spacer Air - 4mm Clear Toughened  
(Worst Case Scenario Toughened iGU)

Characteristics

|   |                           |
|---|---------------------------|
| Resistance to fire  | npd                       |
| Reaction to fire  | A1                        |
| External fire performance   | npd                       |
| Bullet resistance   | npd                       |
| Explosion resistance  | npd                       |
| Burgular resistance   | npd                       |
| Pendulum body impact resistance   | ≥1(c)2                    |
| Resistance against sudden temperature changes and temperature differentials | ≥ 200+200                 |
| Wind, snow permanent and imposed load resistance                            | ≥ 4+4 mm                  |
| Direct airborne sound insulation  | ≤ 31 (-2; -5) dB          |
| Thermal properties  | ≤ 3.3W/(m <sup>2</sup> K) |
| Radiation properties:   |                           |
| light transmission and reflection   | ≥0.82/0.15                |
| solar energy characteristics  | ≥0.73/0.13                |

Signed:.....

*J. Williams*  
*Director*

Date:.....

*3-5-13*

Position:.....

# GLASS SERVICES LTD

Comparative Performance in Glazing  
Other double glazing unit centre pane U value simulations on request

GlassSoft is a high performance low-emissivity soft coated product which offers excellent thermal insulation when incorporated within a double glazing unit. GlassSoft has a highly neutral appearance with optimal heat gain, thermal insulation and light transmission to provide the highest Window Energy Rating (WER) performance.

| Outer Pane   | Cavity<br>(mm)<br>Gas Fill | Inner         | Light<br>Transmittance<br>(%) | Outside<br>Reflectance<br>(%) | Centre Pane<br>U-Value<br>W/m <sup>2</sup> K | Total<br>Solar Heat<br>Transmittance | Indicative WER<br>Performance<br>Band* |                         |
|--------------|----------------------------|---------------|-------------------------------|-------------------------------|--|--------------------------------------|--|-------------------------|
|              |                            |               |                               |                               |  |                                      | Aluminium<br>Spacer Bar                | Warm Edge<br>Spacer Bar |
| 4mm Float    | 16mm<br>Argon              | 4mm GlassSoft | 80                            | 12                            | 1.2  | 71                                   | B/A                                    | A                       |
| 4mm Low Iron | 16mm<br>Argon              | 4mm GlassSoft | 81                            | 12                            | 1.2  | 75                                   | A                                      | A                       |

\*Varies with frame performance