



Periodic Test Report

BS EN 1279-6:2018 – 2025 TEST REQUIREMENT

Report No	CEN2508-05	
Unique Product Ref/ System Description File No.	CMS 6022	
Client Address	Premier (D.G.U) Ltd Unit 7, Bridford Road Marsh Barton Trading Estate Marsh Barton Exeter EX2 8QX	
Date received	12 th December 2025	
Units tested	Seven off insulating glass units	
Component summary	Primary Sealant: Bostik Ltd Secondary Sealant: Bostik Ltd Desiccant: Thermoseal Group Ltd Spacer bar: Profilglass S.p.A Corner Keys: Profilglass S.p.A Lead Tape: Regalead Ltd Georgian bar: Profilglass S.p.A Coloured adhesive film: Regalead Ltd	
Date of manufacture	06 th October 2025	
Specification	BS EN 1279 Part 6 Annex B Periodic Test & Inspection for MPI	Pass
	BS EN 1279 Part 6 Annex B Periodic Test & Inspection for GAS	Pass
	BS EN 1279 Part 4 Annex C Fogging Test	Pass
Prepared by	W R Rogerson 	(Managing Director)
Approved by	H D Wright 	(Office Manager)
Issue date	18 th February 2026	
Conditions of Issue	This test report is issued subject to the terms and conditions stated in the CENSolutions Ltd General Conditions relating to acceptance of testing. The results given relate only to the particular samples tested and to the specific tests carried out, as detailed in this test report. The issuing of this test report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by CENSolutions Ltd of any product. This Test Report, if disclosed to third parties, should be disclosed in its entirety. On receipt, we recommend that the results be discussed with personnel experienced in the manufacture and testing of insulating glass units to EN 1279 Parts 2 & 6. Your CENSolutions Ltd consultant can advise accordingly.	

CENSolutions Limited

Reg. Office – Woodland Lodge, Log Cabin 20, Dunston Business Village, Dunston, Stafford, ST18 9AB

Tel 01785 716625

 Email info@censolutions.com Web site www.censolutions.com

Director WR Rogerson

Co. Reg. No. 4931820

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BS EN 1279-6:2018 – 2025 TEST REQUIREMENT**Introduction**

Insulating glass units manufactured by **Premier (D.G.U) Ltd** were selected from the production batch as specified in BS EN 1279 Part 6 Annex B with a test size and cavity width as close to the standard test size as possible. They were tested and assessed to the applicable requirements of Annex B and where UV fogging test was required to BS EN 1279 Part 6 Annex C.

The test items were received on **12th December 2025** and identified as **CMS 6022**

Test items

Five off insulating glass units were selected from the production batch and submitted for test to BS EN 1279 Part 6 Annex B. In addition, two units 4.12.4 or similar and of size 502 x 352mm were manufactured using standard accepted designs and tested to BS EN 1279 Part 4 Annex C.

Test procedure**BS EN 1279 Part 6:2018 Annex B Periodic testing and inspection****Conditioning and dimensional measurement**

The insulating glass units were received at the laboratory and stored for fourteen days at above 15°C and then conditioned in standard laboratory conditions of 23 ± 2°C and 50 ± 5% relative humidity for a period of not less than three days. During this period the IGU geometry was inspected and recorded. The relative units were then subjected to the short climatic test.

Initial moisture content

The initial moisture content is established by using the method described in BS EN 1279 Part 4 Annex E. The desiccant from two units was removed using Method B as described in BS EN 1279 Part 2 7.2.1.

Climatic test

Two units were placed in the climatic test chamber and subjected to three weeks' exposure at a temperature of +58°C and a relative humidity of 95% or greater. Following the end of the climatic test the units were conditioned for a not less than seven days at standard laboratory conditions.

Final moisture content

The final moisture content is established by using the method described in BS EN 1279 Part 4 Annex E. The desiccant from two units was removed using Method B as described in BS EN 1279 Part 2 7.2.1.

Gas concentration determination

Before use the machine is calibrated by filling the syringe with pure Argon Gas from the gas bottle. This is injected into the gas analyser with a normal reading obtained between 99.5 – 100%.

A hole is made through the sealant and spacer the syringe is inserted into the hole and filled with gas from inside the unit. This is then injected steadily into the gas analyser until the concentration remains constant. The gas concentration should be within +10% and -5% of the standard figure stated in the System Description. The four tested units are measured before the desiccant is removed and all four of the units must be within the range to be deemed a pass.

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IGU Geometry

Overall thickness (mm)	Seal Side 1 (mm)	Seal Side 2 (mm)	Seal Side 3 (mm)	Seal Side 4 (mm)	Conforming to system description (yes / no)	Conforming after climate exposure (yes / no) two units only
28	7	7	7	6	Yes	N/A
28	7	8	7	7	Yes	N/A
28	7	7	7	7	Yes	Yes
28	7	8	8	7	Yes	Yes
28	7	7	7	7	Yes	N/A

The sealant geometry of the five IGU's is deemed to conform with the manufacturer's system description when not more than one unit is outside the system description.

Components

The components used in the construction of the units were declared by the manufacturer to be as follows:

COMPONENT	TYPE	MANUFACTURER/SUPPLIER	GRADE
Desiccant	3A Molecular sieve	Thermoseal Group Ltd	Eurosiv 3A
Spacer bar	Aluminium anodised	Profilglass S.p.A	None
Primary sealant	Polyisobutylene	Bostik Ltd	Bostik 2000
Secondary sealant	Butyl hot melt	Bostik Ltd	Bostik P5125
Corner keys	Nylon	Profilglass S.p.A	
Lead tape	Standard	Regalead Ltd	Regafast
Georgian bar	Powder coated aluminium	Profilglass S.p.A	Elisabeth
Coloured film	Polyester	Regalead Ltd	Regafilm
Cavity gas	Argon	N/A	N/A
Date of manufacture	12 th December 2025		

Any items above that differ to the original System Description have been changed using the substitution rule as detailed in BS EN 1279 Part 1. It is the manufacturers responsibility to ensure this has been complied with

Results

	Moisture content (%)	Moisture content (%)	Moisture penetration index (l)	Result (l of less than 8.5%)
Initial a (Ti) (<3%)	1.758	n/a	n/a	
Initial b (Ti) (<3%)	1.977	n/a	n/a	
Final a (Tf)	n/a	2.090	1.57%	Pass
Final b (Tf)	n/a	1.959	0.65%	Pass

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Gas Concentration

Gas concentration initial (ci) %	Gas concentration final (cs) %	Result
90.4%	87.2%	Pass
89.7%	88.1%	Pass

BS EN 1279 Part 4:2018 Annex C Fogging Test

Two off sample units of a standard design were cleaned and checked for signs of contamination or fogging. If clear the samples are mounted in an ultraviolet test box manufactured in accordance with Figure C.1 of BS EN 1279 Part 4 Annex C and having an output of 40W/m². The air temperature within the test box was maintained within the range of 60 ± 3°C and a cooling plate was placed on the geometric centre of each unit. The plates were maintained at a temperature of below 30°C. After a test period of 168 ± 4 hours the samples were removed from the climatic test chamber. The samples were examined at eye level in a viewing box (as per diagram C.3 in EN 1279 Part 4 Annex C), from a distance of one metre for signs of contamination and fogging on the interior glass surface. If condensation was seen in the viewing box, the units were stored between 15°C and 25°C for seven days and re-examined in the viewing box at a distance of one metre.

Characteristics	Cavity	Size	Specified	Result
UV Fogging test	11.5mm	352 x 502mm	No fogging or contamination	TBC
Average hot spot temperature	58.2°C	Average cold spot temperature	24.7°C	Time under test 168 Hours

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Summary of report No: CEN2508-05

BS EN 1279-6:2018 – 2025 TEST REQUIREMENT

Date: 18th February 2026

Insulating glass units – Periodic test according to EN 1279-6 Annex B

For details, see the test report

Company Name: Premier (D.G.U) Ltd
Address: Unit 7, Bridford Road
Marsh Barton Trading Estate
Marsh Barton
Exeter
EX2 8QX

Plant: Name: As above
Address:

System description file number: **CMS 6022**

Product name: Argon gas filled insulating glass units

Samples conform to the periodic testing and inspection requirements:

Yes

NOTE 1: Comparisons of moisture penetration indices of different insulating glass unit systems are meaningless.

Signature:

W. R. Rogerson

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