

**The Appendix is an integral part of
Certificate of Accreditation No. 458/2024 of 11/09/2024**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

IKATES, s.r.o.

CAB number 1139, Testing Laboratory for Glass and Building Products
Tolstého 186, Řetenice, 415 03 Teplice

The laboratory applies a flexible approach to the scope of accreditation.

The current list of activities carried out within the flexible scope is available at the Laboratory from the Laboratory Manager and on the laboratory's website <https://www.ikates.cz/flex.html> in the form of the „List of activities within the flexible scope of accreditation“

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination and measurement of defects, assessment of appearance	ČSN 70 0550:1962; ČSN 70 3200, cl. 29	Packaging glass	A, D
2	Determination and measurement of defects, assessment of appearance	ČSN 70 8005, cl. 5.2; ČSN 70 8026:1996, cl. 4.2, 4.4; PD PN 001/70/83, cl. 19 b, c, d	Utility glass	A, D
3	Determination and measurement of defects, assessment of appearance	ČSN 70 9052:1956, cl. 29 to 31; ČSN EN 572-2, cl. 5.2.2; ČSN EN 572-3, cl. 5.2; ČSN EN 572-4, cl. 5.2; ČSN EN 572-5, cl. 5.2; ČSN EN 572-6, cl. 5.2; ČSN EN 572-7, cl. 5.2; ČSN EN 572-8+A1, cl. 6.2.2, 6.2.3; ČSN EN 1036-1, cl. 7.2.1.1, 7.2.2.1; ČSN EN 1051-1, cl. 7.1; ČSN EN 1096-1, cl. 8.2, 8.3; ČSN EN 1279-1, cl. 6.2, Annex F; ČSN EN 1748-1-1, cl. 7.1.2; ČSN EN 1748-2-1, cl. 7.1.2; ČSN EN 14178-1, cl. 7.1.2; ČSN EN 15755-1, chap. 7; ČSN EN 16477-1, cl. 6.2.1; ČSN EN ISO 12543-6, chap. 4; ISO 25537, cl. 7.1.1.1, 7.1.2; PD PN 70 1591, cl. 12	Glass in construction	A, D
4	Determination and measurement of defects, assessment of appearance	ČSN EN 12875-2; ES:1869/2018, cl. 4.1, 4.3, 4.4	Glass and glass-ceramic tableware	A, D
5	Determination and measurement of defects, assessment of appearance	PD TP 11111/98, cl. 3.1	Tempered flat glass for household appliances	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
6	Determination of dimensions, squareness and deflection	ČSN 70 1304, cl. 22 to 24; ČSN 70 9052:1956, cl. 25 to 28; ČSN EN 572-2, cl. 4.1, 4.2; ČSN EN 572-3, cl. 4.1, 4.2; ČSN EN 572-4, cl. 4.1, 4.2; ČSN EN 572-5, cl. 4.1, 4.2; ČSN EN 572-6, cl. 4.1, 4.2; ČSN EN 572-7, cl. 4.1, 4.2; ČSN EN 572-8+A1, cl. 5.2, 5.3; ČSN EN 1036-1, cl. 5.1, 5.2; ČSN EN 1051-1, cl. 5.3.1; ČSN EN 1279-1, cl. 6.3; ČSN EN 1748-1-1, cl. 6.2, 6.3; ČSN EN 1748-2-1, cl. 6.2, 6.3; ČSN EN 1863-1, cl. 6; ČSN EN 12150-1+A1, cl. 6; ČSN EN 12337-1, cl. 6; ČSN EN 13024-1, cl. 6; ČSN EN 14178-1, cl. 6.1, 6.3; ČSN EN 14179-1, cl. 8; ČSN EN 14321-1, cl. 6; ČSN EN 15752-1, cl. 6.1.2; ČSN EN 16477-1, chap. 5; ČSN EN ISO 12543-5, cl. 4; ISO 16293-2, cl. 4.1; PD PN 70 1591, cl. 13 to 15; ZP 99006, cl. 2.2 to 2.4, 2.6 (Glaverbel catalogue sheet)	Glass in construction	A, D
7	Determination of dimensions	ČSN 70 0562	Packaging glass	A, D
8	Determination of dimensions	ČSN 70 8005, cl. 5.3; ČSN 70 8026:1996, cl. 4.3; ES:1869/2018, cl. 4.2.1; PD PN 001/70/83, cl. 19 a)	Utility glass	A, D
9	Determination of dimensions, squareness and deflection	PD TP 11111/98, cl. 3.2 to 3.5	Tempered glass for household appliances	A, D
10	Determination of water absorption	ČSN EN ISO 29767, method A; ČSN EN ISO 16535, method 1A	Glass and mineral fibre materials	A, D
11	Determination of dew point	ČSN EN 1279-6, Annex K	Insulating glass	A, D
12	Determination of adhesion	ČSN EN ISO 2409	Paints and coatings on glass products	A, D
13	Determination of light and solar characteristics, colour measurement	ČSN 01 1718, chap. IVA, VI	Products made of glass, plastics	A, D

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14	Determination of light and solar characteristics, colour measurement	ČSN EN 410, cl. 5.2 to 5.6; ISO 9050, cl. 3.3 to 3.9	Glass in construction	A, D
15	Determination of light and solar characteristics, colour measurement	ISO 13837; ECE 43R, Annex 3, cl. 9.1	Glass for vehicles	A, D
16	Colour measurement	IWA 8, Annex A	Utility glass	A, D
17	Determination of light and solar characteristics, colour measurement	ČSN EN ISO 13468-2; ČSN EN ISO 7823-2, Annex A	Plastics	A, D
18	Determination of volume	ČSN 70 0553:1982	Packaging glass	A, D
19	Determination of mass	ČSN EN 1051-1, cl. 5.4.1	Glass blocks and glass tiles	A, D
20	Determination of bulk density	ČSN EN 1279-4, Annex D.1	Components for the production of insulating glass	A, D
21	Determination of volume	ES:1869/2018, cl. 4.2.2	Utility glass	A, D
22	Condensation water resistance test	ČSN EN 1036-1, Annex A; ČSN EN 1096-2, cl. 5 to 10, Annex B; ČSN EN 16477-1, cl. 8.1.3; ISO 25537, Annex A	Glass in construction	A, D
23	Acid resistance test	ČSN EN 1096-2, cl. 5 to 10, Annex C; PD PN 70 1591, cl. 18	Glass in construction	A, D
24	Moisture effect test	ČSN EN ISO 12543-4, cl. 6; EN ISO 12543-4:1998, cl. 5	Glass in construction	A, D
25	Moisture effect test	ECE 43R, Annex 3, cl. 7	Glass for vehicles	A, D
26	Determination of volatile matter content by gravimetry	ČSN EN 1279-4, Annex H	Components for insulating glass	A, D
27	Moisture penetration testing	ČSN EN 1279-2; ČSN EN 1279-6, cl. B.4	Insulating glass	A, D
28	Solar radiation resistance tests	ČSN EN 1096-3, chap. 5 to 9, Annex C1; ČSN EN ISO 12543-4, chap. 7, method A; EN ISO 12543-4:1998, chap. 6	Glass in construction	A, D
29	Tests for thermal shock resistance and thermal shock endurance	ČSN EN ISO 7459	Packaging glass	A, D
30	Tests for thermal shock resistance and thermal shock endurance	ES:1869/2018, cl. 6.3	Utility glass	A, D
31	Tests for thermal shock resistance and thermal shock endurance	PD PN 70 1591, cl. 17	Glass in construction	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
32	Tests for thermal shock resistance and thermal shock endurance	ČSN ISO 718	Laboratory glass	A, D
33	Tests for thermal shock resistance and thermal shock endurance	ECE 43R, Annex 3, cl. 8	Glass for vehicles	A, D
34	Tests for thermal shock resistance and thermal shock endurance	BS 3193, Annex B; PD TP 11111/98, cl. 3.7	Tempered glass for household appliances	A, D
35	Tests for thermal shock resistance and thermal shock endurance	ČSN EN 1183	Glass products in contact with food	A, D
36	Determination of resistance to high temperature	ČSN EN 16477-1, cl. 8.1.4; ČSN EN ISO 12543-4, chap. 5; EN ISO 12543-4:1998, chap. 4	Glass in construction	A, D
37	Determination of resistance to high temperature	ECE 43R, Annex 3, cl. 5	Glass for vehicles	A, D
38	Tests for resistance to microwave heating	ČSN EN 15284	Glass and glass-ceramic tableware	A, D
39	Testing of resistance in dishwashers using the rapid method	ČSN EN 12875-4; ČSN EN 12875-5; ES:1869/2018, cl. 8	Glass and glass-ceramic tableware	A, D
40	Tests for shattering after breakage	ČSN EN 1863-1, chap. 8; ČSN EN 12150-1+A1, chap. 8; ČSN EN 13024-1, chap. 8; ČSN EN 14179-1, chap. 10; ČSN EN 14321-1, chap. 8; ČSN EN 15683-1, chap. 8; ČSN EN 17635; ISO 11485-3, chap. 5; PD PN 70 1591, cl. 16	Glass in construction	A, D
41*	Tests for resistance to attack	ČSN EN 356; ČSN EN 1063; ČSN EN 1523	Glass in construction	A, D
42	Impact resistance tests	ČSN EN 12600	Glass in construction	A, D
43	Impact resistance tests	ČSN EN 12980	Utility glass	A, D
44	Impact resistance tests	BS 3193, Annex C	Tempered glass for household appliances	A, D
45	Tests for shattering after breakage	BS 3193, Annex A; PD TP 11111/98, cl. 3.6, 3.8	Tempered glass for household appliances	A, D
46	Tests for shattering after breakage	ECE 43R, Annex 3, cl. 1, 2.1	Tempered glass for vehicles	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
47	Determination of compressive, tensile and bending strength	ČSN EN 1051-1, cl. 6.1, Annex A, B	Glass blocks and tiles	A, D
48	Determination of tensile strength	ČSN EN 1279-4, cl. 5.5.1, Annex A.1	Sealing materials for insulating glass	A, D
49	Determination of bending strength	ČSN EN 1288-1; ČSN EN 1288-3; ČSN EN 1288-5	Glass in construction	A, D
50	Vertical load resistance test	ČSN EN ISO 8113	Packaging glass	A, D
51	Determination of gas content (conductivity and paramagnetic method)	ZP 00001 (manuals from the analyzer manufacturers)	Insulating glass	A, D
52	Determination of gas leakage rate (argon) by GC-TCD method	ZP-SOP 09018 (ČSN EN 1279-3)	Insulating glass	A, B, D
53	Determination of thermal transmission coefficient - by calculation - by test	ČSN EN 673; ČSN EN 674	Glass in construction	A, D
54	Tests of resistance to wear	ČSN EN 1096-2, chap. 6 to 10, Annex E	Glass in construction - coated glass	A, D
55	Determination of internal stress (polarimetric)	ČSN 70 0534; ASTM C148-14	Products made of glass	A, D

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

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Accreditation for purposes of authorization/notification:

Ordinal number	Product / Product group name	Conformity assessment procedure / module / AVCP system	Basic requirements / harmonized technical specifications: product specifications / characteristics / technical standards ¹
1	Construction products acc. to Regulation (EU) No. 305/2011		
1.1	Flat glass, profiled glass and glass block products		
1.1.1	Flat glass, profiled glass and glass block products (2/6): For uses subject to fire regulations, requiring testing (according to RK 2000/245/EC and change 2001/596/EC) Flat or curved glazing	Regulation No. 305/2011 system 3	EN 1096-4:2018 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 12337-2:2004 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449/AC:2005 EN 1279-5+A2:2010 EN 1279-5:2018
1.1.2	Flat glass, profiled glass and glass block products (2/6): For uses subject to fire regulations, requiring testing (according to RK 2000/245/EC and change 2001/596/EC) Insulating glass units	Regulation No. 305/2011 system 3	EN 1279-5:2005+A2:2010 EN 1279-5:2018
1.1.3	Flat glass, profiled glass and glass block products (3/6): For uses subject to external fire performance regulations (according to RK 2000/245/EC and change 2001/596/EC) Flat or curved glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 1096-4:2004 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 12150-2:2004 EN 12337-2:2004 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449/AC:2005

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Ordinal number	Product / Product group name	Conformity assessment procedure / module / AVCP system	Basic requirements / harmonized technical specifications: product specifications / characteristics / technical standards ¹
1.1.4	Flat glass, profiled glass and glass block products (3/6): For uses subject to external fire performance regulations (according to RK 2000/245/EC and change 2001/596/EC) U-profile glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 15683-2:2013
1.1.5	Flat glass, profiled glass and glass block products (3/6): For uses subject to external fire performance regulations (according to RK 2000/245/EC and change 2001/596/EC) Insulating glass	Regulation No. 305/2011 system 3	EN 1279-5:2005+A2:2010 EN 1279-5:2018
1.1.6	Flat glass, profiled glass and glass block products (4/6): For other uses exposed to the risks of "safety in use" and to which such regulations apply (according to RK 2000/245/EC and change 2001/596/EC) Flat or curved glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 1036-2:2008 EN 1096-4:2004 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 12150-2:2004 EN 12337-2:2004 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449:2005/AC:2005
1.1.7	Flat glass, profiled glass and glass block products (4/6): For other uses exposed to the risks of "safety in use" and to which such regulations apply (according to RK 2000/245/EC and change 2001/596/EC) U-profile glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 15683-2:2013

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Ordinal number	Product / Product group name	Conformity assessment procedure / module / AVCP system	Basic requirements / harmonized technical specifications: product specifications / characteristics / technical standards ¹
1.1.8	Flat glass, profiled glass and glass block products (4/6): For other uses exposed to the risks of "safety in use" and to which such regulations apply (according to RK 2000/245/EC and change 2001/596/EC) Insulating glass	Regulation No. 305/2011 system 3	EN 1279-5:2005+A2:2010 EN 1279-5:2018
1.1.9	Flat glass, profiled glass and glass block products (4/6): For other uses exposed to the risks of "safety in use" and to which such regulations apply (according to RK 2000/245/EC and change 2001/596/EC) Glass blocks	Regulation No. 305/2011 system 3	EN 1051-2:2007
1.1.10	Flat glass, profiled glass and glass block products (5/6): For uses subject to energy savings or noise reduction regulations (according to RK 2000/245/EC and change 2001/596/EC) Flat or curved glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 1036-2:2008 EN 1096-4:2004 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 12150-2:2004 EN 12337-2:2004 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449:2005/AC:2005
1.1.11	Flat glass, profiled glass and glass block products (5/6): For uses subject to energy savings or noise reduction regulations (according to RK 2000/245/EC and change 2001/596/EC) U-profile glazing	Regulation No. 305/2011 system 3	EN 572-9:2004 EN 15683-2:2013

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Ordinal number	Product / Product group name	Conformity assessment procedure / module / AVCP system	Basic requirements / harmonized technical specifications: product specifications / characteristics / technical standards ¹
1.1.12	Flat glass, profiled glass and glass block products (5/6): For uses subject to energy savings or noise reduction regulations (according to RK 2000/245/EC and change 2001/596/EC) Insulating glass	Regulation No. 305/2011 system 3	EN 1279-5:2005+A2:2010 EN 1279-5:2018
1.1.13	Flat glass, profiled glass and glass block products (5/6): For uses subject to energy savings or noise reduction regulations (according to RK 2000/245/EC and change 2001/596/EC) Glass blocks	Regulation No. 305/2011 system 3	EN 1051-2:2007

¹ for dated documents identifying essential requirements / harmonised technical specifications: product specifications / features / technical standards, only the editions cited are used; for undated documents, the latest edition of the referenced document (including any amendments) is used

Explanations:

BS	British Standard
ECE	Regulations of the United Nations Economic Commission for Europe (UN/ECE)
ES	Egyptian standard
IWA	ISO workshop agreement
PD	Adopted document
PN	Company Standard
TP	Technical Specifications
ZP	Testing procedure of IKATES, s.r.o.
Regulation	Regulation (EU) of the European Parliament and of the Council
RK	Commission Decision

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."