

Certification scheme for laminated glass and laminated safety glass as per EN 14449:2005



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1 Objectives and scope

This Certification Scheme defines the procedures and conditions for affixing the "ift-certified" mark to laminated glass and laminated safety glass, hereinafter referred to as "LG" and "LSG".

Certification is based on the harmonised product standard EN 14449:2005.

The essential product characteristics of LG and LSG are verified on the basis of the certification and inspection/audit procedures set out below.

Products with the performance characteristics "resistance to fire", "explosion resistance" and "bullet resistance" are not covered by this Certification Scheme. Additional arrangements can be made to take account of these and other requirements governed by national construction legislation.

This Certification Scheme details and/or supplements the conditions defined in the "General Requirements for the Certification of Products" by ift-Q-Zert.

2 Basis of testing and certification

- The current version of the harmonised product standard EN 14449:2005 and of other publications to which it refers
- EN ISO/IEC 17065,
- "General Requirements for the Certification of Products" by ift-Q-Zert

3 Terms and definitions

3.1 Manufacturer

An organisation producing laminated glass or laminated safety glass with interlayers, from monolithic glass panes.

3.2 Laminated glass/laminated safety glass

Glass consisting of two or more glass panes as per Table 1 of EN 14449:2005, joined by one or several interlayers.

3.3 ift Product passport

Report summary issued by the ift Rosenheim confirming the performance characteristics specified by the manufacturer for the LG/LSG, determined by testing, calculation or assessment as per EN 14449:2005.

3.4 ift Certificate of conformity

A certificate issued by the ift Rosenheim to the manufacturer of a construction product, confirming that product's conformity with the requirements of the European product standard.

4 Certification procedure

- Conclusion of a surveillance and certification contract
- Definition of scope of product certification/certificate
- Assessment of the test verifications/product documentation (functional characteristics of the components and supplies)
- Initial type test (in ift laboratory), if relevant
- Preparation of the ift Product passport
- Initial inspection of the production site
- Performance of a regular inspection/audit (verification of FPC)
- In case of positive assessment:
Certification with issue of the ift Certificate of conformity, entitlement to use "ift-certified" mark.

4.1 Initial type testing

In the initial type test the manufacturer shall provide evidence of all product characteristics which it included in the certification, as per the relevant product, testing and/or classification standards.

The necessary test verifications shall be prepared by a testing body recognised by ift-Q-Zert.

For the construction products LG and LSG, the requirements of EN 12543-2:2011/ EN 12543-3:2011 must be met.

The laminate materials used by the manufacturer must be specified. Information on the material combinations and chemical compositions/formulations, must be provided and will be retained by the ift. A procedure for ensuring clear identification and reproducibility is defined in the initial type test.

4.2 Initial inspection

The content and purpose of the initial inspection are defined/described in the "General Requirements for the Certification of Products" by ift-Q-Zert.

4.3 ift Product passport

Following conclusion of the surveillance and certification contract and positive assessment of the test verifications in the initial type test (see 4.1), the manufacturer of LG and LSG receives an ift Product passport. The ift Product passport is issued/renewed for a period of 3 years at a time, and forms the basis for the regular inspections/audits.

4.4 Re-Certification

Re-certification is performed every 3 years. The validity of the existing verifications and documentation is verified in the course of this re-certification. To ensure continued certification and verification of the essential product characteristics, at least one radiation test (ift laboratory test) as per Clause 6 of EN 12543-4:2011 is performed after 3 years as part of re-certification.

As part of factory production control, the manufacturer performs the tests set out by Annex B of EN 14449:2005 for LG and LSG.

4.5 ift Certificate of conformity

This certificate is valid for 3 years and can be renewed for a further 3 years at a time on the basis of re-certification. It entitles the holder to use the “ift-certified” mark according to the applicable rules for use of this mark.

The conditions for award of continued certification are checked and supplemented as necessary as part of the annual regular inspection/audit (see 5.1).

5 Third-party control of the manufacturer

5.1 Regular inspection/audit

The procedure for and content of the regular inspections/audits is based on the following publications:

- “General Requirements for the Certification of Products” by ift-Q-Zert.

Any non-conformities established in the course of a regular inspection/audit must be corrected promptly, but in any case within 8 weeks.

Regular inspections/audits are performed 2x annually. In case of positive assessment of 2 successive regular inspection/audits by the body performing the third-party control, the frequency of the inspections/audits is reduced to 1x annually. If a major non-conformity is established, a special inspection/audit is performed as per 5.2.

5.2 Special inspection/audit

If major non-conformities are established in the course of a regular inspection/audit, a special inspection/audit is performed at the manufacturer's premises within a specified time (generally no more than 8 weeks) of the regular inspection/audit being performed. Non-conforming products must not be placed on the market.

The manufacturer must promptly provide written notification to ift-Q-Zert that the non-conformities have been corrected.

A special inspection/audit may also be performed if ift-Q-Zert has reliable and conclusive information that the product quality is systematically defective.

6 Factory production control

The manufacturer and ift-Q-Zert agree upon details of the scope and documentation of the factory production control at the initial inspection, based on the requirements of product standard EN 14449:2005. The consistent quality of the construction product must be assured. The factory production control additionally includes the following basic elements:

- The manufacturer defines the scope, documentation, and procedures and methods to be used.
- The manufacturer shall apply and document a procedure for the effective correction of any non-conformities established (corrective actions). The same applies to customer complaints.
- The continuation of third-party control/its adaptation to new products or specifications is verified by ift-Q-Zert in the course of the third-party control/re-certification.

6.1 Inspection of test equipment

All test and measurement devices/equipment used must be subjected to inspection of test equipment. The applicable procedures for the inspection of test equipment are defined by ift-Q-Zert during the initial inspection