



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12150-2:2004

ICS 81.040.20

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Fax: (01) 807 3838

**GLASS IN BUILDING - THERMALLY
TOUGHENED SODA LIME SILICATE SAFETY
GLASS - PART 2: EVALUATION OF
CONFORMITY/PRODUCT STANDARD**

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
November 26, 2004*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2004

Price Code M

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 12150-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2004

ICS 81.040.20

English version

Glass in building - Thermally toughened soda lime silicate safety glass - Part 2: Evaluation of conformity/Product standard

Verre dans la construction - Verre de silicate sodocalcique de sécurité trempé thermiquement - Partie 2: Evaluation de la conformité

Glas im Bauwesen - Thermisch vorgespanntes Kalknatron-Einscheibensicherheitsglas - Teil 2: Konformitätsbewertung/Produktnorm

This European Standard was approved by CEN on 27 May 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	4
1 Scope.....	5
2 Normative references	5
3 Terms and definitions.....	6
4 Requirements	6
4.1 Product description	6
4.2 Conformity with the definition of thermally toughened soda lime silicate safety glass	7
4.3 Determination of the characteristic's performances.....	7
4.3.1 Characteristics of thermally toughened soda lime silicate safety glass	7
4.3.2 Determination of characteristics of thermally toughened soda lime silicate safety glass products.....	8
4.4 Durability.....	10
4.5 Dangerous substances.....	11
5 Evaluation of conformity	11
5.1 General.....	11
5.2 Initial type testing of the product (see 5.1, 2).....	11
5.2.1 General.....	11
5.2.2 Initial type testing of thermally toughened soda lime silicate safety glass	13
5.2.3 Initial type testing of characteristic's performances.....	15
5.3 Factory production control and inspection of samples in accordance with a prescribed test plan (see 5.1, 1a and b).....	16
5.4 Initial inspection of factory and of factory production control (see 5.1, 1c).....	16
5.5 Continuous surveillance and assessment of the factory production control (see 5.1, 1c).....	17
6 Marking and/or labelling.....	18
6.1 General.....	18
6.2 Product marking.....	18
6.3 Product characteristics	18
6.4 "Characteristics/performance identification paper"	18
Annex A (normative) Factory production control.....	20
A.1 Factory Production Control Requirements	20
A.1.1 General.....	20
A.1.2 Organisation	20
A.1.3 Control system	20
A.2 Marking	21
A.3 Inspection and testing tables of thermally toughened soda lime silicate safety glass production	21
A.3.1 Information on table A.1	21
A.3.2 Use of proxy testing.....	22
Annex B (informative) Tests for factory production control	26
B.1 Strength measurement.....	26
B.1.1 Four point bending strength test	26
B.1.2 Optical surface pre-stress measurement	26
B.2 Fragmentation test.....	27
B.2.1 Requirements	27
B.2.2 Test method.....	27

Annex C (informative) Provisions for voluntary involvement of third party(ies)	28
C.1 General	28
C.2 Voluntary tasks for third parties.....	28
C.3 Marking and labelling	28
Annex ZA (informative) Clauses of this European Standard addressing the provisions of EU Construction Products Directive.....	29
ZA.1 Scope and relevant characteristics.....	29
ZA.2 Procedure(s) for the attestation of conformity of thermally toughened soda lime silicate safety glass products	31
ZA.2.1 System(s) of attestation of conformity	31
ZA.2.2 EC Certificate and Declaration of conformity	34
ZA.3 CE marking and labelling	36
Bibliography	39

EN 12150-2:2004 (E)

Foreword

This document (EN 12150-2:2004) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2005, and conflicting national standards shall be withdrawn at the latest by July 2006.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom..

No existing document is superseded

This part of the document does not stand-alone, it is a part of one document:

- EN 12150-1: *Glass in building – Thermally toughened soda lime silicate safety glass – Part 1: Definition and description*
- EN 12150-2: *Glass in building - Thermally toughened soda lime silicate safety glass – Part 2: Evaluation of conformity*

This document contains other aspects of importance of trade.

1 Scope

This document covers the evaluation of conformity and the factory production control of flat thermally toughened soda lime silicate safety glass for use in buildings.

Note: For glass products with electrical wiring or connections for, e.g. alarm or heating purposes, other directives, e.g. Low Voltage Directive, may apply.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 356, *Glass in building - Security glazing - Testing and classification of resistance against manual attack*

EN 410, *Glass in building - Determination of luminous and solar characteristics of glazing*

EN 572 – 1, *Glass in building - Basic soda lime silicate glass products – Part 1: Definition and general physical and mechanical properties*

EN 572 – 2, *Glass in building - Basic soda lime silicate glass products – Part 2: -Float glass*

EN 572 – 4, *Glass in building - Basic soda lime silicate glass products –Part 4: Drawn sheet glass*

EN 572 – 5, *Glass in building - Basic soda lime silicate glass products – Part 5: Patterned glass*

EN 673, *Glass in building – Determination of thermal transmittance (U value) – Calculation method*

EN 1063, *Glass in building - Security glazing - Testing and classification of resistance against bullet attack*

EN 1096-1, *Glass in building - Coated glass - Part 1: Definitions and classification*

EN 1096-2, *Glass in building - Coated glass - Part 2: Requirements and test methods for class A, B and S coatings*

EN 1096-3, *Glass in building - Coated glass - Part 3: Requirements and test methods for class C and D coatings*

EN 12150-1:2000, *Glass in building – Thermally toughened soda lime silicate safety glass – Part 1: Definition and description*

EN 12600, *Glass in building - Pendulum test - Impact test method and classification for flat glass*

EN 12758, *Glass in building - Glazing and airborne sound insulation – Product descriptions and determination of properties*

EN 12898, *Glass in building - Determination of the emissivity*

prEN 13474, *Glass in building - Design of glass panes*

EN 13501-1, *Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests*

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-