



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 357:2004**

ICS 81.040.20

**GLASS IN BUILDING - FIRE RESISTANT  
GLAZED ELEMENTS WITH TRANSPARENT OR  
TRANSLUCENT GLASS PRODUCTS -  
CLASSIFICATION OF FIRE RESISTANCE**

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EUROPEAN STANDARD  
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EUROPÄISCHE NORM

**EN 357**

November 2004

ICS 81.040.20

Supersedes EN 357:2000

English version

**Glass in building - Fire resistant glazed elements with  
transparent or translucent glass products - Classification of fire  
resistance**

Verre dans la construction - Eléments de construction  
vitrés résistant au feu, incluant des produits verriers  
transparent ou translucides - Classification de la résistance  
au feu

Glas im Bauwesen - Brandschutzverglasungen aus  
durchsichtigen oder durchscheinenden Glasprodukten -  
Klassifizierung des Feuerwiderstandes

This European Standard was approved by CEN on 10 September 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.

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## **Foreword**

This document (EN 357:2004) 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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 357:2000.

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.

# EN 357:2004 (E)

## 1 Scope

This document specifies a classification of transparent or translucent glass products for use in appropriate glazed elements intended specially to provide fire resistance. These glass products are described in European Standards on basic and processed glass products.

## 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 572-2, *Glass in building — Basic soda lime silicate glass products — Part 2: Float glass.*

EN 572-3, *Glass in building — Basic soda lime silicate glass products — Part 3: Polished wired 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 572-6, *Glass in building — Basic soda lime silicate glass products — Part 6: Wired patterned glass.*

EN 572-7, *Glass in building — Basic soda lime silicate glass products — Part 7: Wired or unwired channel shaped glass.*

EN 1051-1, *Glass in building — Glass blocks and glass pavers — Part 1: Definitions and description.*

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 1279-1, *Glass in building — Insulating glass units — Part 1: Generalities, dimensional tolerances and rules for the system description.*

EN 1279-2, *Glass in building — Insulating glass units — Part 2: Long term test method and requirements for moisture penetration.*

EN 1279-3, *Glass in building — Insulating glass units — Part 3: Long term test method and requirements for gas leakage rate and for gas concentration tolerances.*

EN 1279-4, *Glass in building — Insulating glass units — Part 4: Methods of test for the physical attributes of edge seals.*

EN 1363-1, *Fire resistance tests — Part 1: General requirements.*

EN 1363-2, *Fire resistance tests — Part 2: Alternative and additional procedures.*

EN 1364-1, *Fire resistance tests for non-loadbearing elements — Part 1: Walls.*

EN 1364-2, *Fire resistance tests for non-loadbearing elements — Part 2: Ceilings.*

prEN 1364-3, *Fire resistance tests for non-loadbearing elements — Part 3: Curtain walling.*

EN 1365-1, *Fire resistance tests for loadbearing elements — Part 1: Walls.*

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