

**IRISH STANDARD** 

I.S. EN 13035-2:2008

ICS 81.100

MACHINES AND PLANTS FOR THE
MANUFACTURE, TREATMENT AND
PROCESSING OF FLAT GLASS - SAFETY
REQUIREMENTS - PART 2: STORAGE,
HANDLING AND TRANSPORTATION
EQUIPMENT OUTSIDE THE FACTORY

National Standards Authority of Ireland Northwood, Dublin 9 Ireland

Tel: +353 1 807 3800 Fax: +353 1 807 3838 http://www.nsai.ie

### Sales

http://www.standards.ie

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on: 18 June 2008

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2008 Price Code I

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. This page is intentionally left BLANK.

# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13035-2

March 2008

ICS 81.100

### **English Version**

Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 2: Storage, handling and transportation equipment outside the factory

Machines et installations pour la production, le façonnage et la transformation du verre plat - Prescriptions de sécurité - Partie 2: Équipement de stockage, de manutention et de transport à l'extérieur de l'usine Maschinen und Anlagen für die Herstellung, Be- und Verarbeitung von Flachglas - Sicherheitsanforderungen -Teil 2: Einrichtungen zum Lagern, Handhaben und Transportieren außerhalb des Werks

This European Standard was approved by CEN on 5 January 2008.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, 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

# EN 13035-2:2008 (E)

Contents		
Forewo	ord	4
Introdu	ıction	5
1	Scope	6
2	Normative references	
		_
3 3.1	Terms and definitions	
3.2	Definitions concerning equipment	
4	List of significant hazards	9
4.1	General	9
4.2 4.3	During transportation	
4.3 4.4	During loading and unloadingFlat glass transport by in-loader	
5	Safety requirements and/or protective measures	
อ 5.1	GeneralGeneral	
5.2	General requirements	
5.3	Angle of lean	
5.4	Glass-retaining systems	
5.5 5.6	Bearers and cladding materials	
5.6.1	In-loader vehicle	
5.6.2	Frail on truck and van	
5.6.3	Stillages and pallets	
5.7	Vacuum lifting device	
6	Verification of safety requirements and/or protective measures	15
7	Information for use	
7.1	General	
7.2 7.3	Signals and warning devices  Accompanying documents	
7.3 7.4	Marking	
Annov	A (informative) Types of equipment	
	, , , , , , , , , , , , , , , , , , , ,	
Annex B.1	B (informative) Guidelines for the glass-retention devices	21
B.2	Air bags/cushions	
B.3	Stanchions for supports on frails	
B.4	Protection of the belt against glass impacts by means of an edge protection	
B.5	Straps	21
Annex	C (informative) Symbols for labels and signs	22
Annex	ZA (informative) Relationship between this European Standard and the Essential Requirements of EU-Directive 98/37/EC	23
Annex	ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	24
Biblioa	raphy	25

# EN 13035-2:2008 (E)

Figures	
Figure A.1 — Frail, fitted to a van	18
Figure A.2 — Frail with a changeable angle of lean	19
Figure A.3 — Frail with movable feet to secure the angle of lean during loading/unloading	19
Figure A.4 — In-loader vehicle	20
Figure C.1 — Warning of hand injuries	22
Figure C.2 — Trespassing prohibited	22
Tables	
Table 1	9
Table 2	10
Table 3	11
Table 4	16

EN 13035-2:2008 (E)

### **Foreword**

This document (EN 13035-2:2008) has been prepared by Technical Committee CEN/TC 151 "Construction equipment and building material machines — Safety", the secretariat of which is held by DIN.

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 September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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). It is one of a series concerning machinery for the manufacture, treatment and processing of flat glass (see Bibliography).

For relationship with EU Directive(s), see informative Annex ZA and ZB, which are integral parts 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, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation