



SLOVENSKI STANDARD
kSIST FprEN 15755-1:2014
01-januar-2014

Steklo v gradbeništvu - Samolepljiva polimerna steklena folija - 1. del: Definicije in zahteve

Glass in building - Adhesive backed polymeric filmed glass - Part 1: Definitions and requirements

Glas im Bauwesen - Glas mit selbstklebender Polymerfolie - Teil 1: Begriffe und Anforderungen

Verre dans la construction - Verre avec film polymère adhésif - Partie 1: Définitions et exigences

Ta slovenski standard je istoveten z: FprEN 15755-1

ICS:

81.040.20	Steklo v gradbeništvu	Glass in building
83.140.10	Filmi in folije	Films and sheets

kSIST FprEN 15755-1:2014

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
FprEN 15755-1

November 2013

ICS 81.040.20; 83.140.10

English Version

Glass in building - Adhesive backed polymeric filmed glass - Part 1: Definitions and requirements

Verre dans la construction - Verre avec film polymère
adhésif - Partie 1: Définitions et exigences

Glas im Bauwesen - Glas mit selbstklebender Polymerfolie -
Teil 1: Begriffe und Anforderungen

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 129.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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-CENELEC Management Centre has the same status as the official versions.

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

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Glass substrate	9
5 Product definitions	10
5.1 General.....	10
5.2 Solar control.....	10
5.3 Safety	10
5.4 Security	11
5.4.1 General.....	11
5.4.2 Resistance to manual attack	11
5.4.3 Resistance to explosive pressure	11
5.4.4 Resistance to ballistic attack.....	11
5.5 RFI/EMI shielding	12
5.6 Anti-graffiti.....	12
5.7 Decorative.....	12
5.8 Low emissivity	12
5.9 Ultra violet reduction	12
5.10 Privacy	12
6 Determination of the durability of adhesive backed polymeric filmed glass	12
6.1 General.....	12
6.2 Humidity test	13
6.2.1 Principle.....	13
6.2.2 Size and number of test specimens.....	13
6.2.3 Preparation of adhesive backed polymeric filmed glass specimens.....	13
6.2.4 Cleaning of filmed glass specimens.....	13
6.2.5 Conditioning of test specimens	13
6.2.6 Test procedure – Test without condensation	13
6.2.7 Visual Inspection	13
6.2.8 Determination of adhesion using peel test	14
6.2.9 Assessment of results	14
6.2.10 Acceptance criteria.....	14
6.2.11 Test report	14
7 Appearance	15
7.1 General.....	15
7.2 Detection of defects.....	15
7.2.1 General.....	15
7.2.2 Artificial sky.....	15
7.2.3 Daylight illumination	15
7.3 Conditions of examination.....	15
7.3.1 General.....	15
7.3.2 Glass substrate defects	17
7.3.3 Adhesive backed polymeric film defects	17
7.3.4 Adhesive backed polymeric film installation defects	18
7.4 Acceptance criteria for adhesive backed polymeric filmed glass defects	19

8	Product information	21
8.1	General	21
Annex A	(informative) Guidelines for installation of adhesive backed polymeric film.....	22
A.1	General	22
A.2	Wet lamination	22
A.2.1	General	22
A.2.2	General Points	22
A.2.3	Installation.....	22
A.3	Dry installation.....	26
Annex B	(informative) Film to glass compatibility and thermal stress	27
Bibliography	28

Foreword

This document (FprEN 15755-1:2013) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

This document is currently submitted to the Unique Acceptance Procedure.

Introduction

Adhesive backed polymeric filmed glass is glass which has had its properties and performance modified by the application of adhesive backed polymeric film.

There are a number of different types of films that are manufactured to modify specific properties of glass, including: solar energy transmittance, visible light transmittance, emissivity, Ultra Violet transmittance, privacy, appearance, impact behaviour, security, electromagnetic frequency (EMF) attenuation, and surface protection.

FprEN 15755-1:2013 (E)**1 Scope**

This European Standard defines the characteristics, properties and classification of adhesive backed polymeric filmed glass, i.e. glass product that has had an adhesive backed polymeric film applied, for use in buildings. The adhesive backed polymeric film is based on biaxially oriented polyester film as defined in FprEN 15752-1. This applies to both site and factory applications.

This European Standard does not apply to adhesive backed polymeric films manufactured using polyvinylchloride (PVC).

Other requirements, not specified in this standard, may apply to adhesive backed polymeric filmed glass that is incorporated into assemblies, e.g. laminated glass or insulating glass units. The additional requirements are specified in the appropriate product standard. Adhesive backed polymeric filmed glass, in this case, does not lose its mechanical or thermal characteristics.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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: Definitions and general physical and mechanical properties*

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

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

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

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

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

FprEN 15752-1:2013, *Adhesive backed polymeric film – Definitions and description*

EN 50147-1, *Anechoic chambers – Part 1: Shield attenuation measurement*

EN ISO 8510-2, *Adhesives – Peel test for a flexible-bonded-to-rigid test specimen assembly - Part 2: 180 degree peel (ISO 8510-2)*

ISO 16933, *Glass in building – Explosion-resistant security glazing – Test and classification for arena air-blast loading*

CIE 13.3:1995, *Method of Measuring and Specifying Colour Rendering Properties of Light Sources*