

# SVENSK STANDARD

## SS-EN 15755-1:2014



Fastställt/Approved: 2014-08-17  
Publicerad/Published: 2014-08-28  
Utgåva/Edition: 1  
Språk/Language: engelska/English  
ICS: 81.040.20; 83.140.10

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### **Byggnadsglas – Glas försett med självhäftande polymerfilm – Del 1: Definitioner och beskrivningar**

### **Glass in building – Adhesive backed polymeric filmed glass – Part 1: Definitions and requirements**

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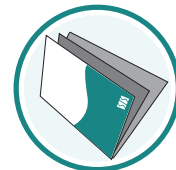
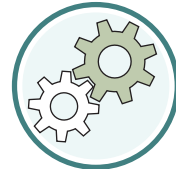
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EUROPEAN STANDARD

**EN 15755-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

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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 European Standard was approved by CEN on 15 May 2014.

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

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## Foreword

This document (EN 15755-1:2014) has been prepared by Technical Committee CEN/TC 129 "Glass in building", the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by February 2015, and conflicting national standards shall be withdrawn at the latest by February 2015.

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## **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.

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

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

EN 15752-1:2014, *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*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15752-1:2014 and the following apply.

#### 3.1

##### **adhesive backed polymeric filmed glass**

glass substrate (see Clause 4) to which has been applied an adhesive backed polymeric film as defined in EN 15752-1 in order to modify one or more of its properties

#### 3.2

##### **release liner**

disposable layer designed to protect the adhesive coating prior to installation

#### 3.3

##### **dry lamination**

installation of an adhesive backed polymeric film by removal of the release liner and direct lamination to the glass substrate surface without using water-based solutions

Note 1 to entry: Dry lamination is normally done using machinery incorporating a roller system within a clean room.

#### 3.4

##### **wet lamination**

installation of an adhesive backed polymeric film by removal of the release liner, wetting the exposed adhesive with a water-detergent solution, and lamination to the substrate surface

#### 3.5

##### **general appearance defects**

these are either visual or optical faults caused by the film or by its application

Note 1 to entry: These are defined in 3.5.1 to 3.5.19

##### 3.5.1

###### **uniformity defect**

slight visible variation in colour, in reflection or transmission, within an adhesive backed polymeric filmed glass pane or from pane to pane

##### 3.5.2

###### **stain**

defect in the filmed glass larger than a punctual defect, often irregularly shaped, partially of mottled structure

##### 3.5.3

###### **punctual defect**

punctual disturbance of the visual transparency whilst looking through the glass and of the visual reflectance looking at the glass

Note 1 to entry: Spots, pinholes, gels and particulates are types of punctual defect.

###### 3.5.3.1

###### **spot**

defect that commonly looks dark against the surrounding film area, when viewed in transmission

###### 3.5.3.2

###### **pinhole**

punctual void in one or more film layers that normally contrasts clear relative to the surrounding film area when viewed in transmission