

Irish Standard I.S. EN 50583-1:2016

Photovoltaics in buildings - Part 1: BIPV modules

 $\ensuremath{\mathbb C}$ CENELEC 2016 $\hfill No copying without NSAI permission except as permitted by copyright law.$

I.S. EN 50583-1:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on: EN 50583-1:2016

2016-02-02

Published: 2016-01-15

This document was published under the authority of the NSAI and comes into effect on:

ICS number:

NOTE: If blank see CEN/CENELEC cover page

NSAI	T +353 1 807 3800	Sales:	
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730	
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729	
Dublin 9	W NSAI.ie	W standards.ie	

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 50583-1:2016 is the adopted Irish version of the European Document EN 50583-1:2016, Photovoltaics in buildings - Part 1: BIPV modules

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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

This page is intentionally left blank

EUROPEAN STANDARD NORME EUROPÉENNE

EN 50583-1

EUROPÄISCHE NORM

January 2016

ICS 27.160

English Version

Photovoltaics in buildings - Part 1: BIPV modules

léments photovoltaïques dans la construction - Partie 1: Modules photovoltaïques incorporés au bâti Photovoltaik im Bauwesen - Teil 1: BIPV-Module

This European Standard was approved by CENELEC on 2015-10-05. CENELEC 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-CENELEC Management Centre or to any CENELEC 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 CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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



European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

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

Contents		Page	
Europe	ean foreword	3	
1	Scope	4	
2	Normative references	4	
3	Terms and definitions	6	
4 4.1 4.2 4.3 4.3.1 4.3.2 4.3.3	Requirements General Electrical requirements Building-related requirements General BIPV Modules containing glass panes BIPV Modules not containing glass panes	7 8 8 8	
5	Labelling	18	
6 6.1 6.2 6.3	Documentation and declaration of performance Data sheet Declaration of conformity Further documentation	18 19	
Annex A.1 A.2 A.3	A (normative) Further requirements on PV modules that contain glass General Mechanical requirements Energy economy requirements	20 20	
Bibliog	Jraphy	22	

European foreword

This document (EN 50583-1:2016) has been prepared by CLC/TC 82 "Solar photovoltaic energy systems".

The following dates are fixed:

•	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2016-10-05
•	latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2018-10-05

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

1 Scope

This document applies to photovoltaic modules used as construction products. It focuses on the properties of these photovoltaic modules relevant to essential building requirements as specified in the European Construction Product Regulation CPR 305/2011, and the applicable electro-technical requirements as stated in the Low Voltage Directive 2006/95/EC / or CENELEC standards. This document references international standards, technical reports and guidelines. For some applications in addition national standards (or regulations) for building products may apply in individual countries, which are not explicitly referenced here and for which harmonized European Standards are not yet available.

The document is addressed to manufacturers, planners, system designers, installers, testing institutes and building authorities.

This document does not apply to concentrating or building-attached photovoltaic modules.¹

This document addresses requirements on the PV modules in the specific ways they are intended to be mounted but not the mounting structure itself, which is within the scope of EN 50583-2.

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 410, Glass in building — Determination of luminous and solar characteristics of glazing

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

EN 674, Glass in building — Determination of thermal transmittance (U value) — Guarded hot plate method

EN 675, Glass in building — Determination of thermal transmittance (U value) — Heat flow meter method

prEN 1279-5, Glass in building — Insulating glass units — Part 5: Evaluation of conformity

EN 1990, Eurocode: Basis of structural design

EN 1991 (all parts), Eurocode 1: Actions on structures

EN 1993 (all parts), Eurocode 3: Design of steel structures

EN 1999 (all parts), Eurocode 9: Design of aluminium structures

EN 12179, Curtain walling — Resistance to wind load — Test method

prEN 12488, Glass in buildings — Glazing recommendations — Assembly principles for vertical and sloping glazing

EN 12519, Windows and pedestrian doors — Terminology

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

¹ For the definition of building-attached photovoltaic modules refer to 3.2



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

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation