



BSI Standards Publication

## **Glass in building - Laminated solar photovoltaic glass for use in buildings**

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## National foreword

This Published Document is the UK implementation of ISO/TS 18178:2018.

The UK participation in its preparation was entrusted to Technical Committee B/520, Glass and glazing in building.

A list of organizations represented on this committee can be obtained on request to its secretary.

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© The British Standards Institution 2018  
Published by BSI Standards Limited 2018

ISBN 978 0 539 00256 0

ICS 81.040.20

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 October 2018.

### Amendments/corrigenda issued since publication

Date	Text affected
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# TECHNICAL SPECIFICATION

**ISO/TS  
18178**

First edition  
2018-10-15

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## **Glass in building — Laminated solar photovoltaic glass for use in buildings**

*Verre dans la construction — Verre feuilleté photovoltaïque pour utilisation dans les bâtiments*



Reference number  
ISO/TS 18178:2018(E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 160, *Glass in building*, Subcommittee SC 1, *Product considerations*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).





# Glass in building - Laminated solar photovoltaic glass for use in buildings

## 1 Scope

This document specifies requirements of appearance, durability and safety, test methods and designation for laminated solar photovoltaic (PV) glass for use in buildings.

This document is applicable to building-integrated photovoltaics (BIPV). Building-attached photovoltaics (BAPV) can refer to this document.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 3290-1, *Rolling bearings — Balls — Part 1: Steel balls*

ISO 12543-1, *Glass in building — Laminated glass and laminated safety glass — Part 1: Definitions and description of component parts*

ISO 12543-2:2011, *Glass in building — Laminated glass and laminated safety glass — Part 2: Laminated safety glass*

ISO 12543-3, *Glass in building — Laminated glass and laminated safety glass — Part 3: Laminated glass*

ISO 12543-4:2011, *Glass in building — Laminated glass and laminated safety glass — Part 4: Test methods for durability*

ISO 12543-5, *Glass in building — Laminated glass and laminated safety glass — Part 5: Dimensions and edge finishing*

ISO 12543-6:2011, *Glass in building — Laminated glass and laminated safety glass — Part 6: Appearance*

ISO 29584, *Glass in building — Pendulum impact testing and classification of safety glass*

IEC 61215-2:2016, *Terrestrial photovoltaic (PV) modules — Design qualification and type approval — Part 2: Test procedures*

IEC/TS 61836, *Solar photovoltaic energy systems — Terms, definitions and symbols*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12543-1, ISO 12543-2, ISO 12543-3, ISO 12543-4, ISO 12543-5, ISO 12543-6, IEC/TS 61836 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>