

BS 5427:2016+A1:2017



BSI Standards Publication

**Code of practice for the use of profiled  
sheet for roof and wall cladding  
on buildings**

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# Foreword

## Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 April 2016. It was prepared by Subcommittee B/542/6, *Corrugated sheeting materials*, under the authority of Technical Committee B/542, *Roofing and cladding products for discontinuous laying*. A list of organizations represented on these committees can be obtained on request to its secretary.

## Supersession

BS 5427:2016 superseded BS 5427-1:1996, which has been withdrawn.

BS 5427:2016+A1:2017 supersedes BS 5427:2016, which is withdrawn.

## Information about this document

BS 5427:2016 was a full revision of BS 5427. It took into account recent changes and developments in materials, components, cladding systems and design practice, such as sheeting profiles, surface coatings, fixing systems, thermal insulation, the use of liners, and alleviation of condensation.

Text introduced or altered by Amendment No. 1 is indicated in the text by tags A1 A1. Minor editorial changes are not tagged.

## Use of this document

As a code of practice, this British Standard takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations.

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

## Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”.

*Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.*

## Contractual and legal considerations

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

**Compliance with a British Standard cannot confer immunity from legal obligations.**

## 1 Scope

This British Standard gives recommendations for the design and construction of external cladding assemblies for roofs and walls of buildings in the UK, using longitudinally profiled sheeting as the external surface, including standing seam. It is not applicable to profiled sheeting used as a supporting substrate, decking, structural liner trays, fully supported profiled sheets, structural composite formations of profiled metal sheeting and concrete, small element cladding or exceptional applications, such as buildings for cold storage.

The principal profiled sheeting materials covered by this British Standard are steel, aluminium, fibre cement, bitumen fibre and plastics, including insulated sandwich panel assemblies of profiled sheeting, thermal insulation and linings.

In addition to referencing performance recommendations, materials and components identified by other British Standards, advice on other materials and components which are in common use but not covered by other British Standards is also given.

This British Standard is intended for use by designers, manufacturers and installers of the roofing products.

**A1** This British Standard includes profiled metal sheets which conform to the scope of BS EN 14782 but excludes profiled metal sheets used for structural purposes, which come within the scope of the BS EN 1090 series of standards. **A1**

## 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.

### Standards publications

BS 476-3, *Fire tests on building materials and structures — Part 3: Classification and method of test for external fire exposure to roofs*

BS 476-6, *Fire tests on building materials and structures — Part 6: Method of test for fire propagation for products*

BS 476-7, *Fire tests on building materials and structures — Part 7: Method of test to determine the classification of the surface spread of flame of products*

BS 476-20, *Fire tests on building materials and structures — Part 20: Method for determination of the fire resistance of elements of construction (general principles)*

BS 476-21, *Fire tests on building materials and structures — Part 21: Methods for determination of the fire resistance of loadbearing elements of construction*

BS 476-22, *Fire tests on building materials and structures — Part 22: Methods for determination of the fire resistance of non-loadbearing elements of construction*

BS 476-23, *Fire tests on building materials and structures — Part 23: Methods for determination of the contribution of components to the fire resistance of a structure*

BS 5250, *Code of practice for control of condensation in buildings*

BS 5516-1, *Patent glazing and sloping glazing for buildings — Part 1: Code of practice for design and installation of sloping and vertical patent glazing*

BS 6100-0, *Building and civil engineering — Vocabulary — Part 0: Introduction and index*