

Code of practice

# Sheet roof and wall coverings —

Part 1: Aluminium corrugated and  
troughed

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Drafting committee BLCP/13 — Aluminium corrugated and troughed sheet roofing and siding

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This Code has been prepared by a Committee convened by the Codes of Practice Committee for Buildings. It was issued for general comment to the professional and trade organizations concerned with its subject matter. All comments and views expressed have been taken into consideration in the final preparation of the code which, having been approved by the Codes of Practice Committee for Buildings, is now published by the British Standards Institution under the authority of the Council for Codes of Practice

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| This Code of Practice makes reference to the following British Standards and British Standard Codes of Practice: |      |

BS 569, *Asbestos cement and rainwater pipes, gutters and fittings*.

BS 1091, *Pressed steel gutters, pipes, fittings and accessories*.

BS 1205, *Cast iron rainwater goods*.

BS 1430, *Aluminium rainwater goods (cast and extruded)*.

BS 1431, *Wrought copper and wrought zinc rainwater goods*.

BS 1470 – BS 1477, *Wrought aluminium and aluminium alloys*.

BS 1490, *Aluminium and aluminium alloy ingots and castings*.

BS 1494, *Fixing accessories for building purposes*.

BS 1543, *Wrought aluminium rainwater goods*.

BS 2465, *Aluminium fixing accessories for building purposes*.

BS 2717, *Glossary of terms applicable to roof coverings*.

BS 2855, *Corrugated aluminium sheets for general purposes*.

BS ....., *Troughed aluminium building sheets*<sup>1)</sup>.

CP 3, *Code of functional requirements of buildings*.

CP 3:Chapter V, *Loading*.

CP 231, *Painting*.

CP ....., *Roof and yard drainage*<sup>1)</sup>.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

Attention is, however, drawn to the fact that in certain bye-laws, notably those Building Bye-laws based upon one of the models issued by the Ministry of Housing and Local Government and the Department of Health for Scotland, compliance with the provisions of certain British Standards or British Standard Codes of Practice, or of specific clauses therein, is “deemed to satisfy” the requirements of certain of the bye-laws in the fields covered by the British Standards and Codes of Practice, or by the specific clauses referred to.

**Summary of pages**

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 11 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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<sup>1)</sup> In course of preparation

## Section 1. General

### 101 Scope

This Code deals with aluminium alloy corrugated and troughed sheeting conforming to BS 2855 and BS ....<sup>2)</sup> used as covering for roofs and sides of buildings. It contains information on weathering, contact with other materials, fire hazard and other characteristics, and makes recommendations relating to materials, design and construction.

### 102 Definitions

Many of the terms used throughout this Code are defined in BS 2717. For the purpose of this Code the following additional definitions apply:

|                             |                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Aluminium</i>            | Aluminium or aluminium alloys to BS 1470 – BS 1477, and BS 1490.                                                                                                              |
| <i>Hook or cranked bolt</i> | Bolts, hooked or cranked at one end and threaded at the other end for attaching corrugated sheets to purlins or rails.                                                        |
| <i>Lap</i>                  | <i>End.</i> The distance one sheet overlaps the next sheet in the course below.<br><i>Side.</i> The distance one sheet overlaps the adjoining sheet in the same course.       |
| <i>Seam bolt</i>            | A mushroom-headed bolt used for fastening together adjacent sheets at side or end laps. The securing of end laps by means of seam bolts is described as <i>tail bolting</i> . |

## Section 2. Materials and components

### 201 Sheets and fittings

Sheets should be of alloy NS3-H complying with the requirements of BS 1470, “*Wrought aluminium and aluminium alloys, sheet and strip*”. The sheets should be of corrugated or troughed section and should comply with the following British Standards: BS 2855, *Corrugated aluminium sheets for general purposes*.

BS ....., *Troughed aluminium building sheets*<sup>2)</sup>.

Sheets wider and larger than the preferred sizes to the same specification are available and may be used.

Aluminium flashings and components made from sheet, such as ridge cappings, barge boards, valley gutters and ventilators should be of one of the following materials complying with the requirements of BS 1470, in temper appropriate to the duty and forming, operations required: NS3, NS4, S1C, S1B, S1A and S1. Alternatively, by agreement between the contracting parties, lead or other suitable material may be used but reference should be made to Clause 303.

### 202 Fixing accessories

Hook bolts, drive screws; seam bolts, nuts and washers should comply with the requirements of BS 2465, “*Aluminium fixing accessories for building purposes*”. Alternatively, they may be of galvanized steel complying with the requirements of BS 1494, “*Fixing accessories for building purposes*,” or they may be of stainless steel. Nails suitable for fixing to timber are illustrated in Figure 1. Any other fixings required, such as blind or break-stem rivets, should be of materials complying with BS 1473, excluding HR14, and care should be taken in their design and use to ensure that they do not impair the efficiency of the roof or wall sheeting.

### 203 Jointing materials

Zinc or barium chromate jointing compounds are preferable, although bituminous mastics and certain non-bituminous-based materials may be used.

### 204 Rainwater goods

Subject to the recommendations of Clause 303 rainwater goods should conform to the requirements of the following British Standards, as relevant:

- Aluminium. BS 1430, “*Aluminium rainwater goods (cast and extruded)*” or BS 1543, “*Wrought aluminium rainwater goods*”.
- Asbestos-cement. BS 569, “*Asbestos-cement spigot and socket rainwater pipes, gutters and fittings*”.
- Cast iron. BS 1205, “*Cast iron rainwater goods*”.
- Zinc. BS 1431, “*Wrought copper and wrought zinc rainwater goods*”. Zinc only is recommended, see Clause 303.
- Pressed steel. BS 1091, “*Pressed steel, gutters, pipes, fittings and accessories*”.

<sup>2)</sup> BS ....., *Troughed aluminium building sheets* (in course of preparation).