

Suspended ceilings —

Part 2: Specification for performance of components and assemblies

Committees responsible for this British Standard

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- Association of Structural Fire Protection Contractors and Manufacturers
- Cold Rolled Sections Association
- Construction Fixings Association
- Department of Health
- Department of the Environment (Property Services Agency)
- Fibre Cement Manufacturers' Association Ltd.
- Gypsum Products Development Association
- Local Authority Organizations
- Loss Prevention Council
- Royal Institute of British Architects
- Suspended Ceilings Association

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Foreword

This Part of BS 8290, prepared under the direction of the Elements and Components (of Diverse Materials) for Buildings Standards Policy Committee, gives requirements for components and complete assemblies of suspended ceilings of dry construction with suspension systems of lightweight corrosion-resistant steel or aluminium alloy sections.

BS 8290 supersedes CP 290:1973 which is withdrawn. BS 8290 is published in separate Parts, the other Parts being as follows:

- *Part 1: Code of practice for design;*
- *Part 3: Code of practice for installation and maintenance.*

A suspended ceiling is a membrane suspended below a structural floor or roof to provide a finished soffit. Suspended ceilings have a variety of functions in forming the internal environment of buildings. They can provide concealment of services, protection of structure against fire, decorative finishes, thermal insulation and illumination. They can also provide heating and ventilation, and contribute to acoustic absorption, sound insulation and the reduction of condensation.

Suspended ceilings are constructed from prefabricated components which together form an integrated system. For this reason they are usually installed by specialist ceiling contractors. BS 8290-2 gives requirements for materials and for structural performance.

Assessed capability. Users of this British Standard are advised to consider the desirability of assessment and registration of a supplier's quality systems against the appropriate Part of BS 5750 by a third party certification body.

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.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 12, an inside back cover 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.

Section 1. General

1 Scope

This Part of BS 8290 specifies requirements for materials and tolerances as well as requirements for performance of components and complete assemblies of dry construction suspended ceilings, with suspensions systems of lightweight steel or aluminium alloy sections and infill units of the types described in clause 8.

NOTE The titles of the publications referred to in this Part of BS 8290 are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 8290 the definitions given in BS 6100 apply, together with the following. Terms from BS 6100 that are particularly relevant are reproduced below.

2.1

suspended ceiling

ceiling hung at a distance from the floor or roof above

2.2

open ceiling

suspended ceiling formed of louvres, open cells or similar ceiling components

2.3

luminous ceiling

ceiling of translucent material or open ceiling with lamps in the ceiling void to light the space below

2.4

ceiling suspension system

assembly of ceiling components for a suspended ceiling

2.5

exposed system

ceiling suspension system with inverted T (tee) sections in which the infill units, open cells or similar components usually rest on the visible table of the system

2.6

concealed system

ceiling suspension system with sections onto which infill units are slotted or mechanically fixed

2.7

main runner

ceiling component suspended from the ceiling hangers in an exposed system or mechanically fixed

2.8

primary channel

ceiling component suspended from the ceiling hangers in a concealed system or open ceiling

2.9

ceiling hanger

ceiling component that is used to connect a main runner or primary channel to the supporting structure above

2.10

tile section

ceiling component that is fixed to the primary channel to support ceiling tiles

2.11

cross member

ceiling component that spans between the main runners

2.12

noggin

ceiling component that spans between tile sections

2.13

spline

strip inserted into preformed grooves of adjacent ceiling infill units to form a concealed mechanical joint for the purpose of restricting air movement through the tile joints

2.14

perimeter trim

section fixed at the perimeter of a ceiling to support the outer components of the ceiling surface

2.15

ceiling linear strip

ceiling component that consists of a profiled section and provides part of a ceiling surface

2.16

metal tray

metal ceiling component with formed edges that provides part of a ceiling surface

2.17

spring tee

ceiling component that is fixed to the primary channels to support metal trays

2.18

open cell

ceiling component that is formed as a grille and that provides part of a ceiling surface

2.19

tile

infill unit with maximum dimensions of 600 mm × 600 mm

2.20

panel

infill unit with dimensions in excess of 600 mm × 600 mm

2.21

plank

infill unit with length in excess of 600 mm and a length at least three times the width

2.22

board

dry lining unit mechanically fixed to a concealed grid

2.23

kerf

preformed groove in the edge of a ceiling infill unit to accommodate the tile section in a concealed grid system

2.24

top fixing

means or device by which ceiling hangers are secured to the building structure

3 Product information and marking

3.1 Product information

Manufacturers of components shall provide the following information:

- a) dimensions of the components supplied;
- b) performance data of the grid components;
- c) installation details to enable the grid components to be correctly installed.

3.2 Marking

All suspended ceiling components shall be legibly and permanently marked with the registered name or trade mark of the manufacturer of the component.

Smaller items shall be identified by package labelling showing the registered name or trade mark of the manufacturer of the items.