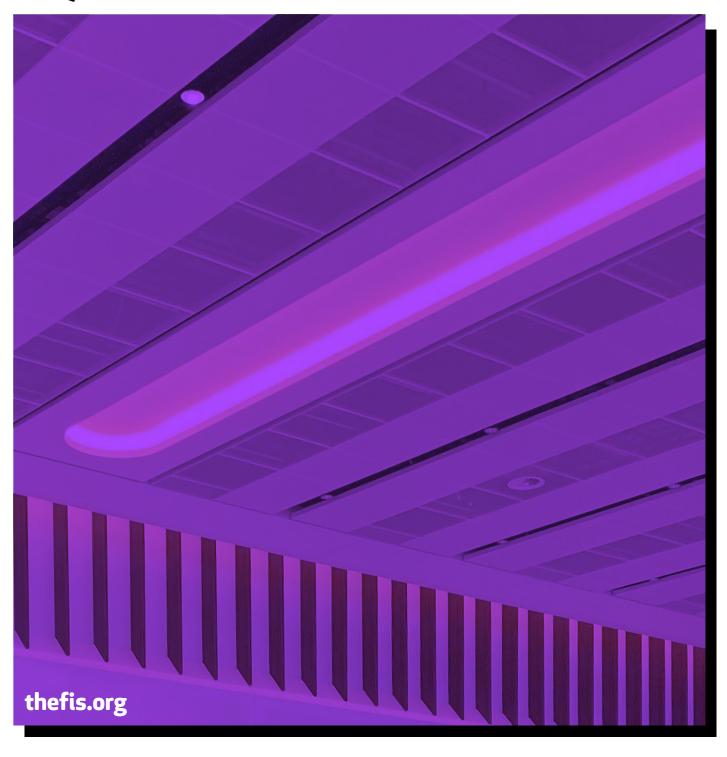


STANDARDS GUIDANCE DOCUMENT

BS EN 13964 - SUSPENDED CEILINGS, REQUIREMENTS AND TEST METHODS





GUIDANCE DOCUMENT BS EN 13964 - SUSPENDED CEILINGS, REQUIREMENTS AND TEST METHODS

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INTRODUCTION

SCOPE



BS EN 13964 was last revised in 2014 and has 'designated' status meaning that the products it covers should carry conformity marking and a declaration of performance.

It is and should continue to be used to assist design and be cited in any specification clause for a described suspended ceiling type.

For general specification advice see FIS

SPECIFIERS' GUIDE TO

CEILINGS AND

ACOUSTIC

ABSORBERS

thefis.org/membership-hub/publications/
specifiers-guides/
ceilingsandacousticabsorbers/

Note: BS EN 13964 is an extensive document, and it is still necessary to represent information selectively, so it should be considered typical practice throughout this guidance note that the standard be referred to for comprehensive detail and listings.

The standard can be purchased from the British Standards Institute (BSI) here:

knowledge.bsigroup.com/

This guide, aimed at specifiers and designers, will give an overview of the content and scope of BS EN 13964.

It will highlight salient information regarding:

- Definitions and the types of products which are and are not covered by this standard
- Types, details and descriptions in the standard and those in the market
- Full product requirements
- Reasonable expectations of manufacture and installation tolerances
- A guide to conformity marking.

This guide will not give any overview of the following parts of BS EN 13964 as these represent detailed guidance specifically for manufacturers:

- Test procedures and associated classification methods (section 5 and annexes C-K)
- Descriptions of methods of attestations of conformity (sections 6-8 and annex L)
- Revision changes (annex M).

DEFINITIONS AND PRODUCT INCLUSION/EXCLUSION

The standard contains an exhaustive list of definitions, but key definitions are given below:

CEILING (3.1.1)

Construction covering the underside of a floor or roof, providing the overhead surface.

SUSPENDED CEILING (3.1.2)

Ceiling (as above) hung by a suspension from or by a directly fixed substructure or perimeter trim to the load bearing structure (floor, roof, beam and walls) at a distance from the floor or roof above.

SUBSTRUCTURE (3.2.1.1)

Suspending frame that supports the ceiling membrane.

SUSPENSION COMPONENT (3.2.1.5)

Part of the substructure, connecting it to the load bearing structure.

TOP FIXING (3.2.2.1)

Fixing which connects the suspension components or the substructure directly to the load bearing structure.

SUPPORTING MEMBER (3.2.2.4)

Suspended component of the substructure with direct connection to the suspension component or directly fixed component.

PERIMETER TRIM (3.2.2.6)

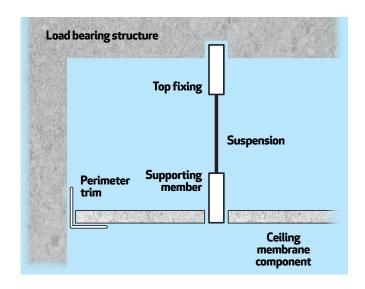
Section fixed at the perimeter of the ceiling to support the components of either the substructure or the ceiling membrane, or both, or fixed to and carried by the ceiling membrane itself.

CEILING MEMBRANE (3.3.1)

Exposed surface of the ceiling facing the room, excluding any exposed substructure.

CEILING MEMBRANE COMPONENT (3.3.2)

Product forming part of the ceiling membrane (eg a tile or plank); the ceiling membrane component can have any form (e.g. solid, open, corrugated, mesh).



Products not explicitly covered by BS EN 13964:

- In-situ formed ceilings where the installer, not the component manufacturer, takes responsibility for ensuring that the complete installed suspended ceiling meets regulatory requirements
- Stretched ceilings covered by BS EN 14716
- Ceilings in mobile buildings and vehicles
- Suspended ceilings used in external environments or subject to water penetration requirements
- Heavy duty (walk-on) ceilings.

Ceiling products that fall under the definitions but are not well described and are therefore not considered to be covered by this standard:

- Non continuous ceiling rafts and horizontal acoustic absorbers are similar to hanging baffles, but the descriptions and test methodologies are not always appropriate
- The internal ceiling of a relocatable partition or furniture pod is not well described by the standard and by virtue of its intended use is not placed on the market as a ceiling product/kit at any time
- Drylining boarded ceilings (with the exception of MF ceiling systems) are covered by BS 8212 and BS 8000-8.

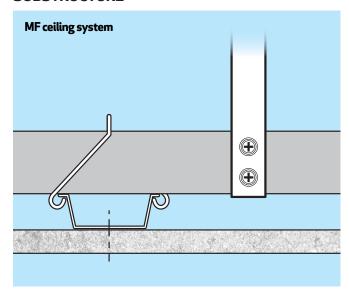
Non-suspended ceilings that are often tested and developed in accordance with BS EN 13964:

 Some internal wall cladding products and acoustic absorbers are developed, tested and placed on the market by ceiling manufacturers and the reaction to fire, acoustic classification and many other attributes including substructure components are identical to those in BS EN 13964.

TYPES, DETAILS AND DESCRIPTIONS

TYPES OF CEILING DESCRIBED BY BS EN 13964

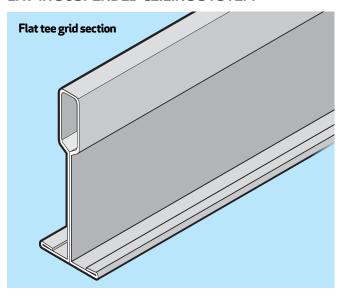
SUSPENDED CEILING SYSTEMS WITH MEMBRANE COMPONENTS FIXED ON THE SUBSTRUCTURE



Metal furring (MF) ceilings are the most common example of this type which provide a near monolithic finish, using boards jointed and finished prior to decoration.

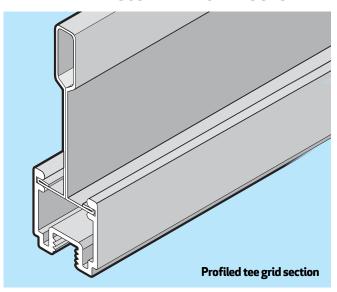
They can provide good levels of sound insulation and/or absorption with the specification of specialist plasters and boards with sound absorbent properties.

LAY-IN SUSPENDED CEILING SYSTEM



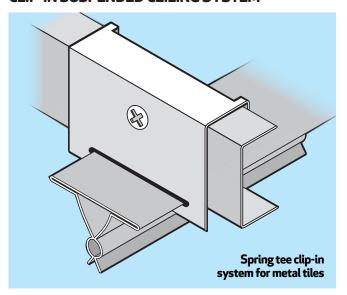
Usually an inverted tee system with a visible width of 24mm or 15mm based on either 600×600 mm or 1200×600 mm modules.

REBATED LAY-IN SUSPENDED CEILING SYSTEM



As a regular lay-in system but with rebated tile edges that either enclose a profiled grid or finish below the grid line.

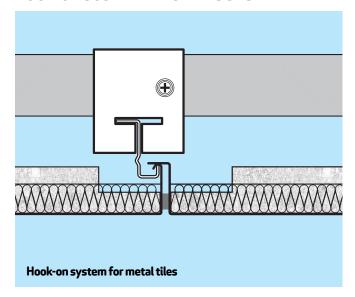
CLIP-IN SUSPENDED CEILING SYSTEM



These ceilings usually incorporating individual tiles onto a concealed grid, where tiles are secured to the grid via a clip securing arrangement. These are often specified in high traffic areas, where additional security to the ceiling void is required, to limit access and for increased security of MEP services.

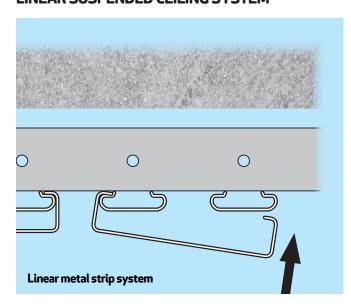
TYPES, DETAILS AND DESCRIPTIONS

HOOK-ON SUSPENDED CEILING SYSTEM



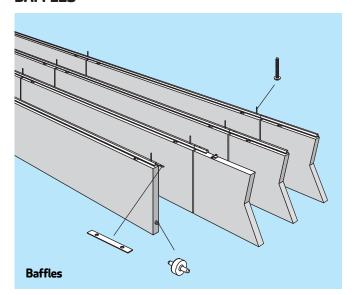
These are constructions utilising a hook and rail arrangement, allowing a concealed substructure and uniform ceiling surface. These are often specified to create a seamless ceiling surface, whilst allowing easy access into the ceiling void.

LINEAR SUSPENDED CEILING SYSTEM



These systems comprise baffle type 'blades' or 'rafts', supported by a suspension system. Linear baffle systems create an open-type ceiling construction, where the ceiling void is not completely sealed off and therefore can be useful in providing access to MEP installation for maintenance, whilst aesthetically masking these.

BAFFLES

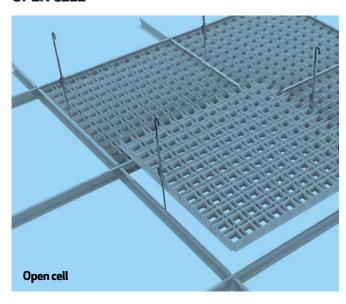


These can either be fixed directly to the soffit or suspended by appropriate hangers to a required level. When installed below a suspended ceiling it is necessary to check if the suspended ceiling system and its suspension system are capable of taking the extra load imposed by the acoustic baffles and whether it can provide adequate fixing points to suspend the baffles from.

Refer to The FIS publication 'A Guide to Office Acoustics' for further information on baffles and other acoustic solutions.

thefis.org/membership-hub/publications/guide-office-acoustics/

OPEN CELL

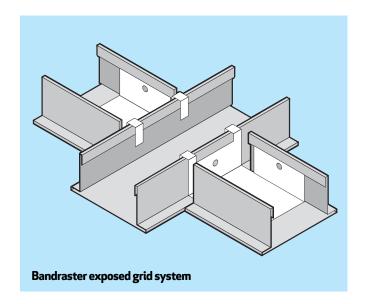


TYPES, DETAILS AND DESCRIPTIONS

Although these ceilings can provide a visually continuous appearance, they can also be used to provide a varying level of acoustic absorption, as well as allow air flow into the void.

Depending on the specific requirements, this can make them suitable for use in thermal mass projects, as well as large public areas such as shopping complexes and airports, and are aesthetically appealing.

Available in metal, high-density mineral wool, GRG etc.



The full list of possible product requirements for ceilings as prescribed by BS EN 13964 is covered in Section 4 of the standard.

The requirements are presented in text form in the standard and have been summarised in the table across with highly condensed comments regarding guidance for demonstrating the characteristics and whether they relate internally to BS EN 13964 or another referenced standard.

The standard should be consulted for more detailed descriptions of each requirement and how to meet them.

			Suspende ceiling ki	ed Sub	Substructure kits		Substructure components					
Clause/requiren	nent				SC K	SS K	SS C	M C	Guid BS E	ance within N 13964	And/ or	External guidance
4.1 Dimensions	and tolerances				✓		✓	✓	As p	er tables 1-5		
4.2 Modular dim	ensions				√	✓	✓		As p	er table 2	or	As per ISO 21723
	4.3.1 General				√							
		4.3.2.1 Loa performan	d bearing ce		✓	✓	✓		test 5 and	alculation or as per clause d classify as able 6		
4.3 Mechanical resistance and stability of load bearing components	4.3.2 Substructure		4.3.2 Stee subs		✓	✓	✓			osion ection as per ss 8 and 9	and	Thickness tolerance as per EN 10143 Material as per EN 10346, EN 10152, EN 10169 or EN 10346
		4.3.2.2 Substructure materials		2.2.2 ninium tructure	✓	✓	✓			osion ection as per 9	and	Material as per EN 573-3 with 0.2% yield strength of at least 160N/mm ²
			4.3.2 Timb subs		√	✓	✓		Refe text	r to clause	and	Material to quality grade S10 (MS10) of EN 1912 Preservation as per EN 335, EN 350, EN 351, EN 460 and/or EN 599
	4.3.3 Suspension		4.3.3.1 Metal suspension components						By ca test 5.3	alculation or as per clause		
	components and fasteners	4.3.3.2 Tim	4.3.3.2 Timber suspension components		√	✓	✓		Refe text	r to clause	or	Calculated as per EN 1995-1-1
	4.3.4 Resistance	4.3.4 Resistance to fixings			√	✓	✓	✓	With as pe	stand loads er clause 5.3		
	4.3.5 Wind load	4.3.5 Wind load resistance			✓					r to clause annex C	or	Calculated as per EN 1991-1-4
	4.3.6 Impact re	sistance			√			✓	Test D	as per annex		
	4.3.7 Seismic ro	esistance			√				No d colla	amage or pse	and	Refer to EN 1998-1 where relevant

Continued >	Suspended ceiling kits	Substructure components	

Clause/requirem	nent		SC K	SS K	SS C	M C	Guidance within BS EN 13964	And/ or	External guidance
		4.4.1.1 General	✓						Classification as per EN 13501-2
	4.4.1 Fire resistance	4.4.1.2 Test specimen preparation							Observe EN 13501-2
		4.4.1.3 Testing and classification							Test as per EN 1364-2 and/or as appropriate
4.4 Safety in case of fire		4.4.2.1 General	✓				Classification without testing as per annex K	or	Testing and classification as per EN 13501-1
	4.4.2	4.4.2.2 Membrane components				✓	Refer to clause text		
	Reaction to fire	4.4.2.3 Substructure kits and components		✓	✓		Observe annex I	and	Test according to EN 13823 and/or EN ISO 11925-2 as appropriate
		4.4.2.4 Jointing products	✓				Classification without testing as per annex K	or	Testing and classification as per EN 13501-1
	4.5.1 Release of asbestos (content)					✓	None permissible		
4.5 Hygiene health and environment -	4.5.2 Release and/or content of formaldehyde					✓	Class E1 or E2 as per annex E as appropriate		
toxic gases and dangerous substances	4.5.3 Other dangerous substances					✓			Consider national provisions
	4.5.4 Susceptibility to the growth of harmful micro-organisms					✓	Declare suceptibility as per table 7		
	4.6.1 Shatter properties					✓			Classification as per EN 12600 as appropriate
4.6 Safety in use	4.6.2 Flexural t	4.6.2 Flexural tensile strength				✓	Test as per annex F Classification as per tables 8 and F.2		
	4.6.3 Mechanic - baffles	al strength safety against failure	✓				Test and declare as per annex J		
	4.6.4 Electrical	safety	✓	✓			Refer to clause text		

External guidance
Absorption coefficient establised as per EN ISO 354 and calculated and expressed as per EN ISO 11654
Test as per EN ISO 10140 and declare as per EN ISO 717-1
Test as per EN ISO 10848-2 and declare as per EN ISO 717-1
Calculations as per EN ISO 6946 and EN ISO 10211
Observe EN ISO 12944-3 as appropriate
PVC-U at 23°C as per EN 13245-1 annex A and table 2 PVC-UE at 23°C as per EN 13245- 2 annex B and table B.1
Hazard class as per EN 355 or preservation treatment as per EN 350, EN 351 and EN 460 Mechanical durability calculated as per EN 1995-1-1

Continued >	Suspended ceiling kits Substruct	ure		struc ipon		Membrane components		
Clause/requirem	ent	SC K	SS K	SS C	M C	Guidance within BS EN 13964	And/ or	External guidance
	4.9.1 General			✓	✓	Declare as per clauses 4.9.2, 4.9.3 and 4.9.4 as appropriate		
4.9 Colour, light reflectance and gloss factor for	4.9.2 Measurement method of colour composition			✓	✓			As per CIE-Lab method in ISO 7724-2 and ISO 7724-3
suspended ceiling components	4.9.3 Measurement method for light reflectance			✓	✓			As per CIE-Lab method in ISO 7724-2 and ISO 7724-3
	4.9.4 Measurement and value of gloss factor			✓	✓			Determined and classified as per EN ISO 2813
4.10 Thermal insulation		✓			✓			Calculated as per EN ISO 6946 and EN ISO 10211

TOLERANCES, INSTALLATION AND SELECTION OF FIXINGS

TOLERANCES

Tolerances given in section 4.1 (requirements), generally refer to fine tolerances of manufactured components. These are detailed very comprehensively for both membrane and substructure components and the standard should be referred to for details.

Modular tolerances given in section 4.2 refer to ISO 21723, but a general tolerance is given (in plan) of +/- 0.25mm from axis to axis of grid/substructure components in an assembly.

INSTALLATION-RELATED ANNEX A TOLERANCES

Flatness

The maximum deviation from flatness should be less than or equal to 2mm per metre length, with a maximum of 5mm over a 5m length, measured horizontally at the location of the suspension in any direction (linear interpolation is used to determine the tolerance on shorter lengths). These requirements apply for the installation of the substructure, the membrane components and the edge profiles.

The tolerances of manufactured components cannot be considered cumulative to the general flatness but should be measured separately.

Squareness

The standard states that substructure and linear components should be accurately square and does not give a specific deviation tolerance.

Limitations based upon component tolerances should be considered by the installers.

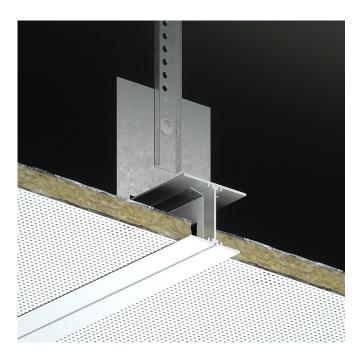
Alignment of linear components

Linear components, together with any elements and carriers, should be exactly aligned on module. Special care should be taken of the alignment of modules over the joint between carriers.

Cut to size membrane components

As a general requirement, membrane components are divided from the middle of the ceiling area, be it from the middle of the component or the middle of

a joint between components, in such a way that adapter panels have a minimum width of half the width (or length) of the standard panel. Otherwise, the division should be determined with the building designer, taking into account the location of columns, lighting fixtures, etc. Cut to size membrane components, when pushed against the body of the T-profile, should be supported by the edge profile on the opposite side by at least 10mm.



INSTALLATION AND SELECTION OF FIXINGS

BS EN 13964 states clearly in Annex A that fixings should be specified at design stage and should be detailed on relevant drawings.

ANNEX B SELECTION FACTORS

Type of suspension component

Wire, rod strap etc. and the compatibility of the fixing with the medium.

Base material of load bearing structure - Nature, strength and thickness

Load capacity, thickness, compressive strength and consideration of deterioration over time of the base material, and the compatibility of the fixing with the medium.

TOLERANCES, INSTALLATION AND SELECTION OF FIXINGS

Design resistance

Consideration of the nature of the design and how it can impact the previous factors.

Overview advice for base materials

- Concrete, including:
 - Normal weight cracked and non-cracked
 - Hollow core slabs (EN 1168)
 - Lightweight aggregate concrete (EN 1520)
 - Aerated concrete (EN 12602)
- Timber
- Metal decking and structural steel sections.

Note: ETAG 001 and 020 are referenced throughout this section, but both have since been superseded as follows:

- ETAG 001 replaced by EAD 330232-00-0601
- ETAG 020 replaced by EAD 330284-00-0604.

FIS has published comprehensive information that deals with these subjects in a more prescriptive manner than BS EN 13964.



CONFORMITY MARKING

OVERVIEW

The designated status of BS EN 13964 means that products covered by the standard are mandated by the EU construction products regulation (CPR) 2011 to carry CE marking and a declaration of performance (DOP) in order to be placed on the market.

Further to this, the 2020 UK amendment to the CPR states:

"4.— (1) A person who supplies a construction product in respect of Great Britain that is covered by a designated standard or conforms to a UK Technical Assessment that has been issued for it shall be guilty of an offence unless—

(a) there is supplied with the product in accordance with Article 7 of the 2011 Regulation a declaration of performance for the product drawn up in accordance with Articles 4 and 6 of the 2011 Regulation; and (b) the product has affixed to it the UK marking in accordance with Article 8(1) of the 2011 Regulation."

After 1 January 2023, CE marking will be superseded by the UK CA mark.

CE or UKCA marking will not necessarily be applied directly to products, so will instead be on packaging and in O&M manuals.

The table shows what conformity marking is and will be accepted between the UK, Northern Ireland and European Union member states.



A declaration of performance is document with specific utility that details compliance with, or levels of performance against the required essential characteristics, and is used for record keeping. It will be provided as part of an O&M manual but should be available to view in advance for any product that has been placed on the market.

An example of a declaration of performance layout can be found in the appendix.

Annex Z of BS EN 13964 covers in detail all the requirements and methods for conformity marking and declarations of performance.

Conformity marking between the UK, Northern Ireland and European Union

	PLACE OF MANUFACTURE							
LOCATION OF MARKET	Great Britain	Northern Ireland	European Union					
Great Britain >31/12/22	UK or C€	UK or CE	UK CA or CE					
Great Britain 01/01/23>	UK CA	UK CA	UK CA					
Northern Ireland	CE and NI Assessed by UK body	CE and NI Assessed by UK body	C E Assessed by EU body					
European Union	C€	C€	C€					

CONFORMITY MARKING

ESSENTIAL CHARACTERISTICS

This table combines data within Annex ZA.1 to display the essential characteristics for conformity marking, showing how these vary for complete kits and components etc.

Characteristic		ZA.1.1 Suspended ceiling kits	ZA.1.2 Substructure kits	ZA.1.3 Substructure components	ZA.1.4 Membrane components	Notes
Reaction to fire		✓	✓	✓	✓	According to EN 13501-1
Fire resistance		✓				According to EN 13501-2
Release of asbe	estos	✓			✓	Content and/ or release
Release of form	naldehyde	✓			✓	Classes E1 or E2
Release and/or other dangerou	content of	✓			✓	Content and/ or release
Susceptibility to the growth	as dampness	✓			✓	Levels
of harmful micro organisms	through thermal insulation	✓			✓	Levels
Shatter properties	as impact resistance	\checkmark			✓	Levels
(safe as shatter breakage) properties		\checkmark			✓	Levels
Flexural tensile strength		✓			,	Levels
Bond strength/adhesion as resistance to fixings		\checkmark			V	DoP
Load bearing capacity	of substructure	\checkmark	\checkmark	\checkmark		Levels
	of suspension components and fasteners	✓		✓		DoP
	of top fixing of suspension components and perimeter trim fixings	✓		√		DoP
	tolerances and dimensions	✓	✓	✓		DoP
Resistance to f	ixings	\checkmark	\checkmark	\checkmark		DoP
Electrical safet	у	\checkmark	\checkmark			Statement of compliance
Direct airborne insulation	sound	✓				DoP
Sound absorpti	ion	✓			✓	DoP
Thermal perfor thermal conduction	mances as ctivity	✓			✓	DoP
Durability		\checkmark	√	\checkmark	\checkmark	Levels

CONFORMITY MARKING

AVCP SYSTEMS

This table shows how the intended uses of kits or components dictate the assessment and verification of constancy of performance (AVCP) system that needs to be used to declare the levels of performance of characteristics.

The AVCP system dictates the level of involvement from a third party approved body (gov.uk/uk-market-conformity-assessment-bodies) in assessing the following main elements:

 Factory production control (fpc) on the basis of documented, permanent and internal control of production in a factory, in accordance with the relevant harmonised technical specifications

- Initial inspection of the manufacturing plant and of fpc
- Continuous surveillance, assessment and evaluation of fpc
- Determination of product type on the basis of type testing, type calculation, tabulated values or descriptive documentation of the product
- Audit testing of samples taken before placing the product on the market.

The standard covers the differences between AVCP systems in detail, the table in the appendix gives a non-product specific overview of how responsibilities are split between the manufacturer and approved body for each AVCP system.

Annex ZA.2 systems of attestation by type and intended uses

AVCP	Intended uses	AVCP	Intended uses	AVCP	Intended uses
3	As internal finishes in ceilings used for fire protection of ceilings	3	To support internal suspended ceilings subject to safety in use requirements	3	To support internal suspended ceilings subject to safety in use requirements
3	As internal finish in ceilings subject to safety in use requirements	3	To support internal suspended ceilings subject to reaction to fire regulations Classes; A1, A2, B, C, D and E	3	As internal finish in ceilings subject to requirements against accidental injuries from cutting objects
3	As internal finishes in ceilings subject to reaction to fire regulations Classes; A1, A2, B, C, D and E	1	To support internal suspended ceilings subject to reaction to fire regulations Classes; A1*, A2*, B* and C*	3	As internal finishes in ceilings subject to reaction to fire regulations Classes; A1, A2, B, C, D and E
1	As internal finishes in ceilings subject to reaction to fire regulations Classes; A1*, A2*, B* and C*	4	To support internal suspended ceilings subject to reaction to fire regulations Classes; (A1 to E)**, F	1	As internal finishes in ceilings subject to reaction to fire regulations Classes; A1*, A2*, B* and C*
4	As internal finishes in ceilings subject to reaction to fire regulations Classes; (A1 to E)**, F	4	To support internal suspended ceilings for all other uses mentioned in the mandate	4	As internal finishes in ceilings subject to reaction to fire regulations Classes; (A1 to E)**, F
3	As internal finishes in ceilings subject to regulations on dangerous substances			3	As internal finishes in ceilings subject to regulations on dangerous substances
4	As internal finishes in ceilings for all other uses mentioned in the mandate			4	As internal finishes in ceilings for all other uses mentioned in the mandate

Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (eg an addition of fire retardants or a limiting of organic material).

Products/materials that do not require to be tested for reaction to fire (eg products/materials of Class A1 according to Commission Decision 96/603/EC).

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APPENDIX

DECLARATION OF PERFORMANCE

Example layout extracted from Construction Products Association (CPA) Guidance Note on the Construction Products Regulation (see References).

DECLARATION OF PERFORMANCE

No. 001CPR2014-05-14

1 Unique identification of the product type:

Positive pressure air/flue terminal with metal flue duct for C62- and C63type gas appliances T120-PI-D-Vm-L40045-050

2 Intended use or uses:

Convey air combustion and the products of combustion from appliances to the outside atmosphere.

3 Manufacturer:

Any Company Ltd, PO Box 21, B-1050 Brussels

4 Authorised representative:

[to be given by the manufacturer]

5. System(s) of AVCP

System 2+

6a Harmonised standard (if applicable):

EN 14989-1:2009

Notified body(ies): (identification number)

[to be given by the manufacturer]

6b European assessment document (if applicable):

[to be given by the manufacturer]

European technical assessment (if applicable):

[to be given by the manufacturer]

Technical assessment body (if applicable):

[to be given by the manufacturer]

Notified body(ies) (if applicable):

[to be given by the manufacturer]

APPENDIX

AVCP SYSTEMS OVERVIEW

Extracted from Construction Products Association (CPA) Guidance Note on the Construction Products Regulation (see References).

System type	Responsibility	Type of notified body	Tasks
1+	Notified body	Product certification body	Initial inspection of the fpc system Continuous surveillance of the fpc system Determination of product type Audit testing
	Manufacturer		Factory production control and further testing of samples
1	Notified body	Product certification body	Initial inspection of the fpc system Continuous surveillance of the fpc system Determination of product type
	Manufacturer		Factory production control and further testing of samples
	Notified body	Factory production control certification body	Initial inspection of the fpc system Continuous surveillance of the fpc system
2+	Manufacturer		Factory production control and further testing of samples Determination of product type
2	Notified body	Test laboratory	Determination of product type
3	Manufacturer		Factory production control
4	Manufacturer	No independent involvement	Factory production control Determination of product type

REFERENCES

UK BUILDING REGULATIONS

Approved Document B (fire safety) volume 2: buildings other than dwellings

STANDARDS

BRITISH STANDARDS

BS 8000-8:1994

Workmanship on building sites - Code of practice for plasterboard partitions and dry linings

BS 8212:1995

Code of practice for dry lining and partitioning using gypsum plasterboard

EUROPEAN STANDARDS

BS EN 13964:2014

Suspended ceilings. Requirements and test methods

BS EN 14716:2004

Stretched ceilings. Requirements and test methods

ISO STANDARDS

ISO 21723:2019

Buildings and civil engineering works - Modular coordination – Module

EOTA STANDARDS

ETAG 001 replaced by EAD 330232-00-0601

ETAG 020 replaced by EAD 330284-00-0604

CPA Guidance Note on the Construction Products Regulation

constructionproducts.org.uk/publications/technical-and-regulatory/guidance-note-on-the-construction-products-regulation/

96/603/EC: Commission Decision of 4 October 1996 establishing the list of products belonging to Classes A 'No contribution to fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products (text with EEA relevance)

op.europa.eu/en/publication-detail/-/publication/999ef8f3-56e7-4a99-8e20-01f910b77d2e/language-en

ADDITIONAL READING (NOT REFERENCED)

FIS Best Practice Guide: Installation of Suspended Ceilings

thefis.org/membership-hub/publications/best-practice-guides/installation-of-suspended-ceilings/

FIS Best Practice Guide: Maintenance and Access into Suspended Ceilings

thefis.org/membership-hub/publications/best-practice-guides/maintenance-and-access-into-suspended-ceilings/

FIS Site Guide: Suspended Ceilings

thefis.org/membership-hub/publications/site-guides/

FIS Technical Note: Transition Trims

thefis.org/knowledge-hub/technical/fis-technical-notes-industry-alerts/

OTHER DOCUMENTS

FIS Specifiers' Guide: Ceilings and Acoustic Absorbers

thefis.org/membership-hub/publications/specifiers-guides/ceilingsandacousticabsorbers/

FIS Best Practice Guide: Selection and Installation of Top Fixings for Suspended Ceilings

thefis.org/membership-hub/publications/best-practice-guides/top-fixings-and-suspended-ceilings/

NOTES



STANDARDS GUIDANCE DOCUMENT

BS EN 13964 - SUSPENDED CEILINGS, REQUIREMENTS AND TEST METHODS

