



BSI Standards Publication

Domestic kitchen equipment

Part 2: Fitted kitchen units, peninsular units, island units and breakfast bars –
Performance requirements and test methods

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Published by BSI Standards Limited 2017

ISBN 978 0 580 95505 1

ICS 97.040.10

The following BSI references relate to the work on this standard:

Committee reference FW/0/2

Drafts for comment 08/30158311 DC; 16/30347419 DC

Publication history

First published January 1992

Second edition June 1997

Third edition January 2009

Amendments issued since publication

Date	Text affected
January 2017	A1 – see Foreword

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Foreword

Publishing information

This part of BS 6222 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 January 2009. It was prepared by Subcommittee FW/0/2, *Domestic and contract furniture*, under the authority of Technical Committee FW/0, *Furniture*. A list of organizations represented on these committees can be obtained on request to their secretary.

Supersession

BS 6222-2:2009 superseded BS 6222-2:1997 and BS 6222-5:1995, which have been withdrawn.

BS 6222-2:2009+A1:2017 supersedes BS 6222-2:2009, which is withdrawn.

Information about this document

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

Amendment A1 has been prompted, in part, by the publication of BS EN 16122:2012, which contains some of the test methods previously included in ISO 7170:2005.

BS 6222-2:2009 was a full revision of the standard and was prompted by the publication of ISO 7170:2005, which contained some of the test methods previously included in BS 6222-2:1997.

In order to simplify the standards, this revision of BS 6222-2 was extended to include requirements for peninsular units, island units and breakfast bars, which were previously specified in BS 6222-5:1995.

This revision of BS 6222-2 does not include safety requirements for kitchen units. These are specified in BS EN 14749, which replaced BS EN 1153:1996. This revision of BS 6222-2 was also prompted, in part, by the need to remove material covered by BS EN 14749.

The performance requirements are verified by tests which reproduce normal use and foreseeable misuse to which domestic and residential kitchen units can be subjected, together with the loads that are likely to be encountered when assembling and installing the units. They apply to a wide range of fitted kitchen units, peninsular units, island units and breakfast bars. Two test levels are given, for two grades of units, corresponding to the variations in severity of end-use to be expected for various types of units. Whilst the tests reproduce normal use and foreseeable misuse, they do not reproduce any abuse to which the article might be subjected.

The requirements apply only to the durability of the structure. The tests are designed to be applied to an article that is fully assembled and ready for use. The tests do not reproduce the effects of degradation of structural materials by sunlight or chemical attack.

Hazard warnings

WARNING. This British Standard calls for the use of procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

Use of this document

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 “shall”.

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 part of BS 6222 specifies performance requirements and test methods for the strength and durability of the structure of domestic and residential fitted kitchen units, peninsular units, island units and breakfast bars.

This part of BS 6222 is not applicable to the safety of kitchen storage units and worktops.

NOTE Safety requirements and test methods for kitchen storage units and worktops are specified in BS EN 14749.

This standard is not applicable to free-standing kitchen units, domestic and contract storage furniture, office storage furniture or storage furniture intended for educational use.

2 Normative references

The following referenced documents are indispensable for the application 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.

[A1] BS EN 16122:2012, *Domestic and non-domestic storage furniture – Test methods for the determination of strength, durability and stability* **[A1]**

3 Terms and definitions

For the purposes of this part of BS 6222 the following terms and definitions apply.

- 3.1 unit**
complete cabinet, including drawers, doors, loose shelves and fixtures
- 3.2 base unit**
unit fitted with, or able to support, a worktop
NOTE Base units are normally floor standing.
- 3.3 fitted kitchen unit**
kitchen unit intended to be fixed to a wall
- 3.4 wall unit**
unit intended to be wholly suspended by attachment to a wall
- 3.5 tall unit**
floor standing unit, the top of which is higher than the surrounding worktops
- 3.6 appliance housing**
unit designed to house a specific appliance, e.g. an oven or refrigerator
- 3.7 pull-out larder unit**
unit to which access is gained by pulling the interior fitments out of the cabinet, instead of opening a door
- 3.8 carcass**
unit excluding drawers, doors, loose shelves and fixtures
- 3.9 shelf**
continuous horizontal surface intended for storage

- 3.10 extension element**
item supported on runners which can be drawn out from a cabinet
NOTE Examples of extension elements are drawers and trays.
- 3.11 door**
panel hinged in a vertical plane or sliding in a vertical plane
- 3.12 flap**
panel hinged in a horizontal plane
- 3.13 worktop**
continuous horizontal surface intended for working on
- 3.14 cantilevered worktop**
projecting moveable or fixed worktop, only part of which is supported
- 3.15 breakfast bar**
horizontal surface that is at a height convenient for use by a seated person
- 3.16 island unit**
assembly of units attached to the structure of the building only at the floor
- 3.17 peninsular unit**
assembly of units in which not more than one base unit and one wall unit are attached to the structure of the building
- 3.18 range of units**
group of units that share the same basic design and construction details

4 Requirements

COMMENTARY ON CLAUSE 4.

Conformity to the requirements specified in Clause 4 for the strength and durability of the structure of an article of furniture is verified by applying to various parts, loads or forces simulating normal functional use, as well as foreseeable misuse, at one of two levels of severity. Test level G is for grade G (general domestic) units which are suitable for general domestic situations where users can be expected to exercise care. Test level H is for grade H (heavy duty) units which are for use in residential locations where heavy use can be expected or where users are unlikely to exercise care.

The test sequence as a whole determines the following:

- a) ability to withstand handling prior to fixing;*
- b) static strength and initial damage;*
- c) fatigue strength and damage propagation;*
- d) ability to withstand foreseeable misuse.*

The magnitude of the loads or forces applied or the number of applications varies according to the test level to which conformity is tested.

The following types of tests are specified.

- 1) Handling tests. Handling tests assess the ability of the article to withstand the load or forces that are likely to be encountered when assembling and installing the units.*
- 2) Static load tests. Static load tests assess the static strength of the article under the highest levels of loading that can reasonably be expected to occur.*