



BSI Standards Publication

## Kitchen equipment — Coordinating sizes

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## National foreword

This British Standard is the UK implementation of [ISO 3055:2021](#).

The UK participation in its preparation was entrusted to Technical Committee FW/0/2, Domestic and Contract Furniture.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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© The British Standards Institution 2021  
Published by BSI Standards Limited 2021

ISBN 978 0 539 13942 6

ICS 97.040.01

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2021.

### Amendments/corrigenda issued since publication

Date	Text affected
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INTERNATIONAL  
STANDARD

**ISO**  
**3055**

Third edition  
2021-11-30

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**Kitchen equipment —  
Coordinating sizes**

*Équipement de cuisine — Dimensions de coordination*



Reference number  
ISO 3055:2021(E)

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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 136, *Furniture*.

This third edition cancels and replaces the second edition (ISO 3055:1985), which has been technically revised.

The main changes compared to the previous edition are as follows:

- Specification of the scope;
- Terms and definitions of kitchen furniture and appliances added;
- Normative references revised;
- Requirements for the coordinating sizes (height, width and depth) of kitchen units and appliances given in more detail;
- Annexes A and B deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The purpose of standardization of kitchen equipment is to allow components to be combined in arrangements, which are harmonious and rational, due to account being taken of ergonomic and economic considerations.

To this end, the following aspects are considered:

- the sizes of component parts;
- the specific areas of each item of equipment, taking into account the possibility of their complete or partial overlapping;
- the location of pipes (water, gas, drainage, electricity);
- the combinations of components.

This document has been prepared according to the principles of modular coordination in building.

Attention is drawn to the fact that there can be national or regional regulations concerning supply of services (e.g. gas, electricity, water).

Attention is also drawn to the fact that there can be national or regional regulations/guidelines to cater for people with special needs.



# Kitchen equipment — Coordinating sizes

## 1 Scope

This document specifies dimensions for the height, width and depth of kitchen units and worktops. Additionally, it defines the space for integrating appliances, such as sink units, ovens, refrigerators, in kitchens.

This document does not apply to customized kitchens.

This document does not apply to kitchens for commercial use (e.g. in hotels, restaurants, and hospitals).

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1 Worktop

#### 3.1.1

##### **worktop**

solid horizontal element attached to the top of a free standing or floor standing kitchen unit to provide a working surface

#### 3.1.2

##### **height of worktop**

vertical distance from the floor to the top of the worktop

Note 1 to entry: See [Figure 1](#),  $h_1$ .

#### 3.1.3

##### **depth of worktop**

horizontal distance from the front edge to the rear edge of the worktop

Note 1 to entry: See [Figure 2](#),  $l_1$ .

#### 3.1.4

##### **depth of working area**

horizontal distance from the front edge of the worktop to the wall or wall attachment

Note 1 to entry: See [Figure 2](#),  $l_5$ .

Note 2 to entry: A wall attachment is typically recess panelling or wall end profiles.

### 3.2.9

#### **height of the feet or height of the base**

vertical distance from the surface of the floor to the underside of the kitchen unit

Note 1 to entry: See [Figure 1](#),  $h_4$ .

Note 2 to entry: The height of the feet/base is not identical to the height of the plinth (see [Figure 1](#),  $h_8$ ).

### 3.2.10

#### **height of the plinth**

vertical distance from the surface of the floor to the top of the plinth

Note 1 to entry: See [Figure 1](#),  $h_8$

### 3.2.11

#### **feet recess**

horizontal distance from the kitchen unit front edge to the front of the feet

Note 1 to entry: See [Figure 2](#),  $l_6$ .

### 3.2.12

#### **plinth recess**

horizontal distance from the front edge of the kitchen unit front to the front edge of the plinth

Note 1 to entry: See [Figure 2](#),  $l_7$ .

### 3.2.13

#### **front height for dishwashers**

vertical distance from the underside of the worktop to the lower edge of the decorative panel

Note 1 to entry: See [Figure 1](#),  $h_6$ .

## 3.3 Recess for appliances

### 3.3.1

#### **appliance and/or furniture space**

open space formed by furniture and/or appliance into which appliance or furniture are intended to be inserted

### 3.3.2

#### **opening for appliance**

opening or cut-out in a kitchen unit or a worktop which is intended for the installation of a built-in appliance or installation element

### 3.3.3

#### **protective wall panelling**

element for the rear delimitation of the wall

Note 1 to entry: See [Figure 1](#), 1 and  $h_9$  and [Figure 2](#), 1.

Note 2 to entry: The protective wall panelling is generally placed between the top of the worktop and the bottom of the upper kitchen unit.

### 3.3.4

#### **depth of adjusting area**

horizontal distance from the kitchen unit front edge to the rear edge of the rear appliance adjusting feet

Note 1 to entry: See [Figure 2](#),  $l_8$ .

### 3.4 Decorative panel

#### 3.4.1 decorative panel

component intended to adapt a built-in or built-under appliance to match the frontal design of the adjacent kitchen unit

Note 1 to entry: See [Figure 1](#),  $h_5$ .

### 3.5 Appliance definitions

#### 3.5.1 built-in appliance

appliance with width, depth and height corresponding to the nominal kitchen unit inner dimension

Note 1 to entry: See [Figure 3](#),  $w_1$ . See [Table 1](#).

#### 3.5.2 built-under appliance

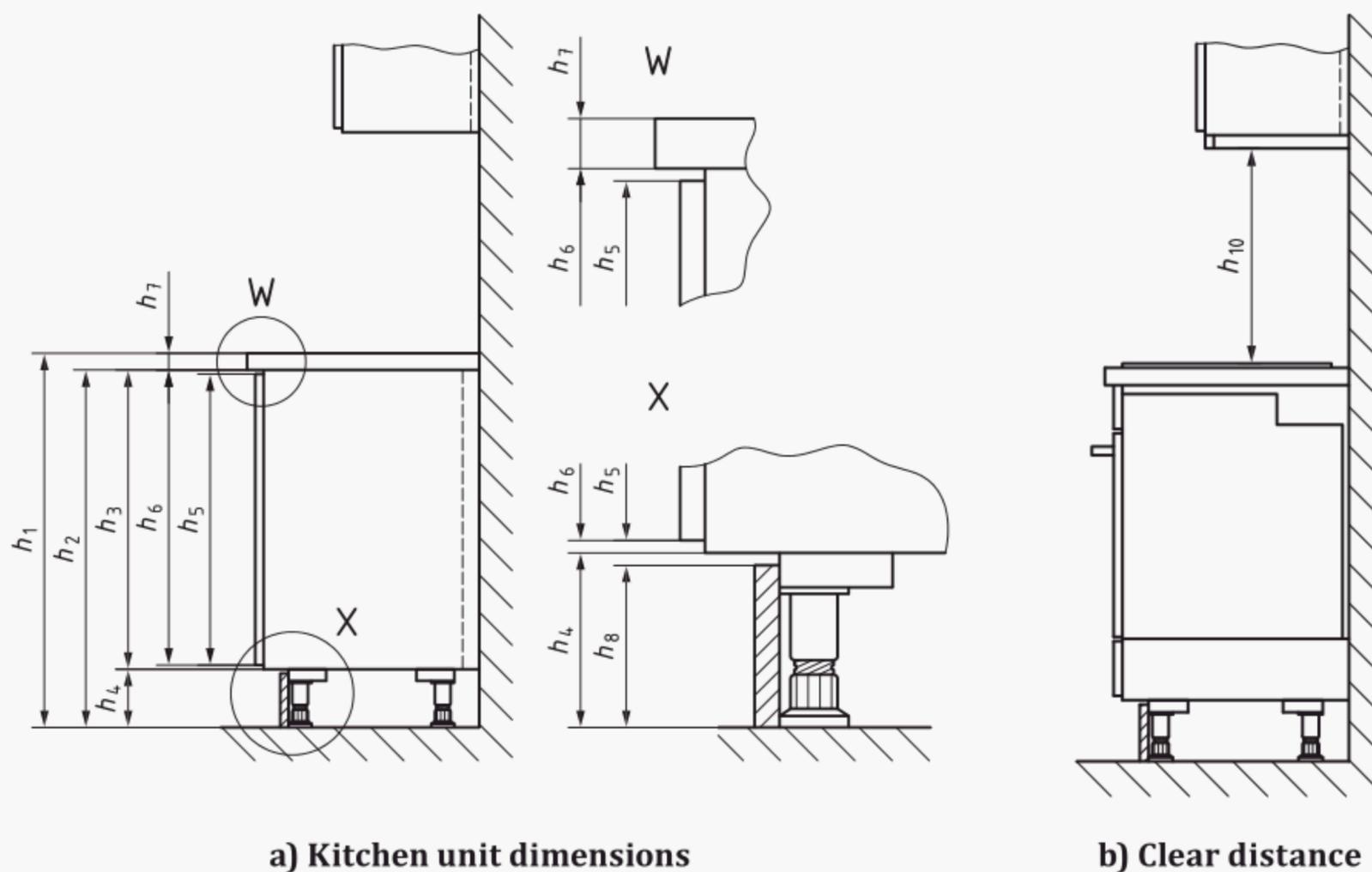
appliance with width, depth and height corresponding to the nominal kitchen unit outer dimension

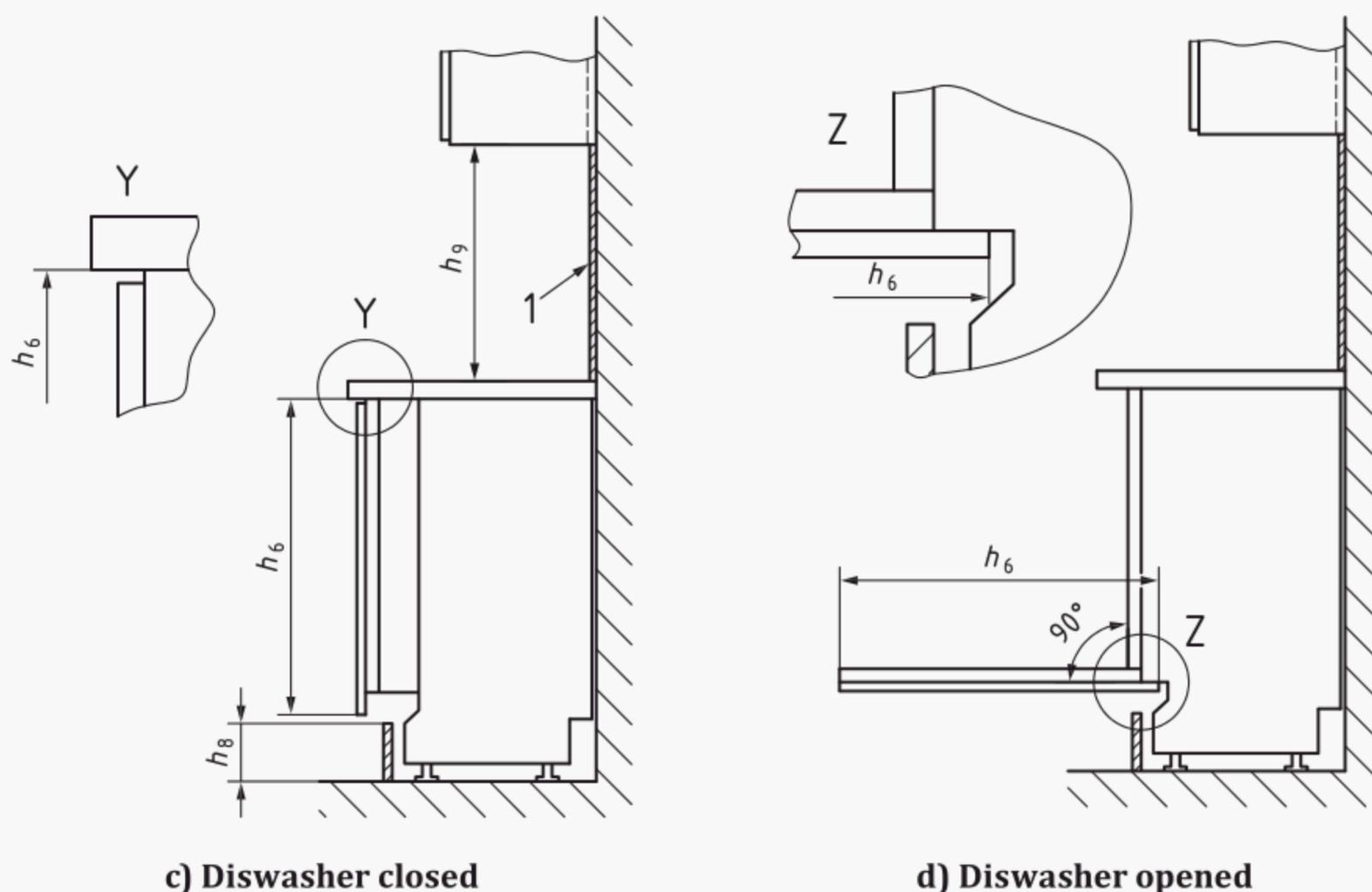
Note 1 to entry: See [Figure 3](#),  $w_1$  and  $w_3$ . See [Table 1](#).

#### 3.5.3 installation element

functional components of a kitchen, which require an installation opening

EXAMPLE Fitted sink, cooking hob, waste separating systems.





c) Dishwasher closed

d) Dishwasher opened

#### Key

- 1 wall attachment (protective wall panelling)
- $h_1$  height of the worktop
- $h_2$  installation height of the base kitchen unit
- $h_3$  height of the kitchen unit
- $h_4$  height of the feet/base
- $h_5$  height of the decorative panel
- $h_6$  front height for dishwashers
- $h_7$  thickness of the worktop
- $h_8$  height of the plinth
- $h_9$  vertical distance between worktop and wall hanging kitchen unit above it
- $h_{10}$  distance between cooking hob and extractor hood

**Figure 1 — Heights of kitchen units and appliances (side view)**

## 4 Coordinating sizes

### 4.1 General

Only such height, depth and width dimensions are specified, which are necessary for coordination between the furniture and appliance. Other dimensions can also be selected where required.

**Furniture:** The heights, depths and widths of installation openings and recesses indicated in [4.2](#), [4.3](#) and [4.4](#) shall have only plus deviations.

**Appliances:** The external heights, depths and widths as specified in [Tables 1](#) and [2](#) for the recess/installation opening shall have only minus deviations relative to the nominal dimensions. The location and dimensions of the installation openings for an installation element (e.g. a fitted sink in a worktop), the necessary space and the required safety distances shall be according to the installation instructions of the appliance manufacturers.

The widths of installation openings and overall widths of appliance fronts for built-in appliances are given in [Table 3](#).

**Table 1 — Height of the opening for appliances**

Dimensions in millimetres

Nominal width of the kitchen unit	Height of the opening																				
	330	350	360	370	380	450	470	480	590	700	720	820	880	1 025	1 225	1 400	1 450	1 580	1 780	1 860	
450	—	—	—	—	—	+	—	—	—	—	+	+	+	—	—	—	—	—	—	—	—
500	+	+	+	+	+	+	—	+	—	—	—	—	—	—	—	—	—	—	—	—	—
600	+	+	+	+	+	+	—	—	+	+	+	+	+	+	+	+	+	+	+	+	+
700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
900	—	—	—	—	—	+	+	+	—	—	—	—	—	—	—	—	—	—	—	—	—
Tolerances of heights: $\begin{matrix} +10 \\ 0 \end{matrix}$ mm																					
+ Preference dimension																					
— not recommended																					
All height dimensions indicated refer to the minimum cabinet depth of 550 mm. The height dimensions 330 mm to 450 mm also refer to the minimum cabinet depth of 310 mm.																					
$\begin{matrix} +5 \\ 0 \end{matrix}$ mm.																					

**Table 2 — Width of recess for built-under appliances according to Figure 3 a)**

Dimensions in millimetres

Nominal width of the recess $w_3$	Width of the recess without space requirement for fittings <sup>a</sup> $w_1$	Overall width of the appliance front /installation frame and kitchen unit frame or the decorative frame $w_2$
450	$450^{+5}_0$	$445^{+1}_{-5}$
600	$600^{+5}_0$	$595^{+1}_{-5}$

<sup>a</sup> Additional space requirement for fittings (e.g. sliding doors for cooling appliances) shall be considered.

**Table 3 — Widths of installation openings and overall widths of appliance fronts for built-in appliances according to Figure 3 b)**

Dimensions in millimetres

Nominal width of the kitchen unit / clear space $w_3$	Minimum width of the recess without space requirement for fittings <sup>a</sup> $w_1$	Overall width of the appliance front/ installation frame and kitchen unit frame $w_2$
450	410	$445^{+1}_{-5}$
500	460	$495^{+1}_{-5}$
600	560	$595^{+1}_{-5}$
700	660	$695^{+1}_{-5}$
800	760	$795^{+1}_{-5}$
900	860	$895^{+1}_{-5}$

<sup>a</sup> Additional space requirement for fittings (e.g. sliding doors for cooling appliances) shall be considered.

## 4.2 Height

### 4.2.1 Height of the worktop

The height of the worktop shall be  $750^{+50}_0$  mm or  $800^{+50}_0$  mm or  $850^{+50}_0$  mm or  $900^{+50}_0$  mm or  $950^{+50}_0$  mm (see Figure 1,  $h_1$ ).

It does not apply to height adjustable worktops.

Consider the intended user population when selecting the height of the worktop.

NOTE People with special needs can require different heights of the worktop.

### 4.2.2 Height of the recess for built-under appliances

The height of the recess for a built-under appliance shall be minimum 820 mm or minimum 870 mm or minimum 920 mm or adjustable (see Figure 1,  $h_2$ ).

The value for the distance between cooking hob and extractor hood (see Figure 1,  $h_{10}$ ) is determined by the manufacturer of the cooking hob and the extractor hood.

#### 4.2.3 Height of the opening of appliances

The height of the opening for built-in appliances is specified in relation to the width of the kitchen unit according to [Table 1](#).

#### 4.2.4 Vertical distance between worktop and wall hanging kitchen unit above it

The vertical distance between the worktop and the wall hanging kitchen unit above it shall be  $\geq 450$  mm.

#### 4.2.5 Height of the feet/base

The height of the feet/base ([Figure 1](#),  $h_4$ ) shall be at least 80 mm from the floor.

### 4.3 Depth

#### 4.3.1 Depth of worktop

It is recommended that the depth of the worktop is at least 600 mm to allow integrating all appliances with standard depths (see [Figure 2](#),  $l_1$ ).

#### 4.3.2 Worktop overhang

The depth of the worktop overhang shall not exceed 30 mm (see [Figure 2](#),  $l_2$ ).

#### 4.3.3 Depth of the working area when using protective wall panelling

The depth of the working area shall be reduced correspondingly when using protective wall panelling and edge profiles (see [Figure 2](#),  $l_1$  and  $l_5$ ).

#### 4.3.4 Depth of the kitchen unit

For worktops with 600 mm depth (see [4.3.1](#)), the depth of the kitchen unit below the worktop shall be minimum 550 mm. Wall hanging kitchen units above shall be minimum 310 mm (see [Figure 2](#),  $l_4$ ).

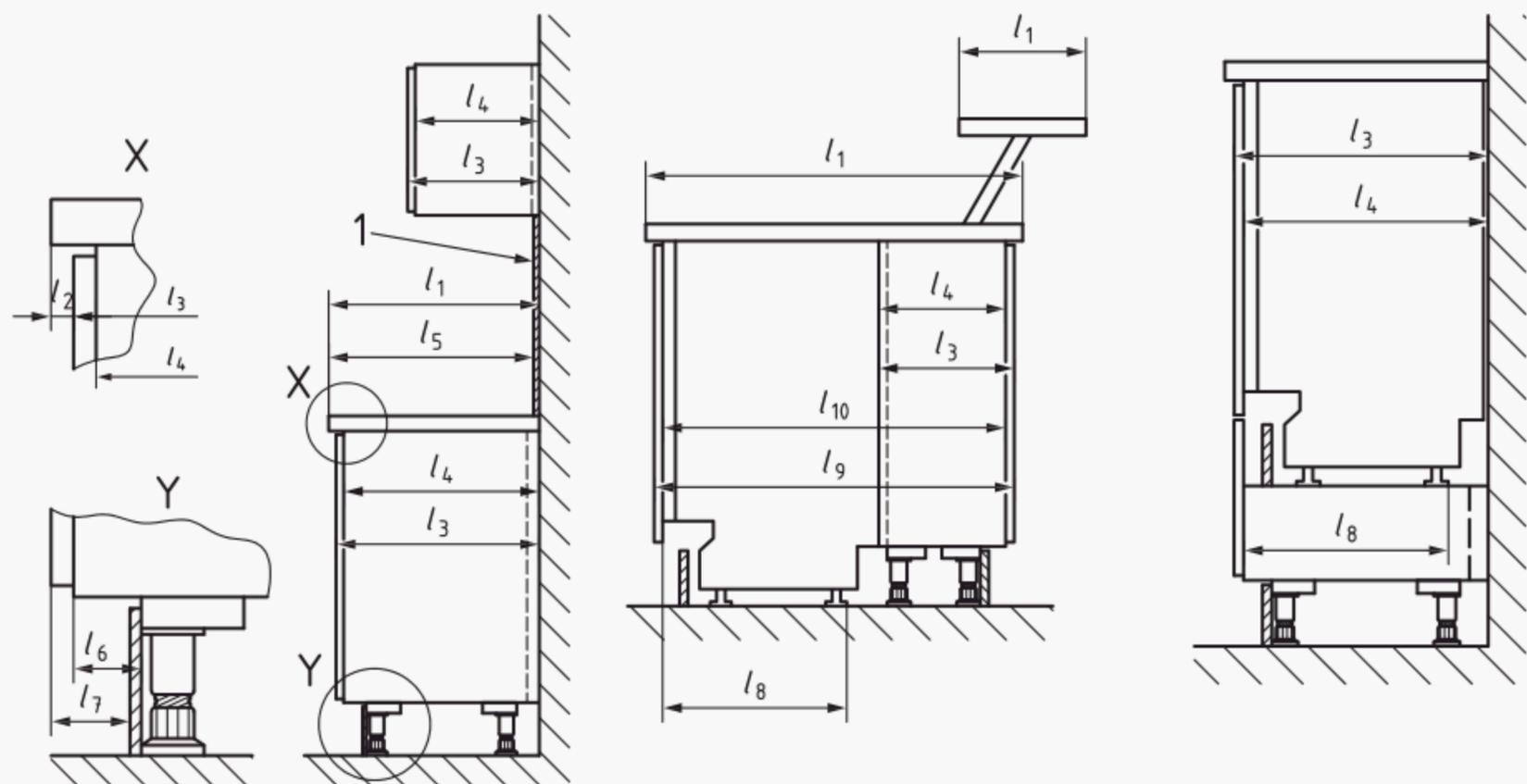
#### 4.3.5 Recess for kitchen units with built-under appliances

For built-under appliances, the total depth of the kitchen unit shall be less or equal than the depth of the worktop (see [Figure 2](#),  $l_3 \leq l_1$ ).

#### 4.3.6 Total depth of wall hanging kitchen units above a worktop

For worktops with 600 mm depth (see [4.3.1](#)), the total depth of a wall hanging kitchen unit above a worktop shall not exceed 400 mm (see [Figure 2](#),  $l_3$ ).

The depth of a wall hanging kitchen unit shall not exceed 400 mm (see [Figure 2](#),  $l_3$ ).



a) Floor standing kitchen unit and wall hanging kitchen unit    b) Free standing kitchen units (kitchen island)    c) Floor standing kitchen unit

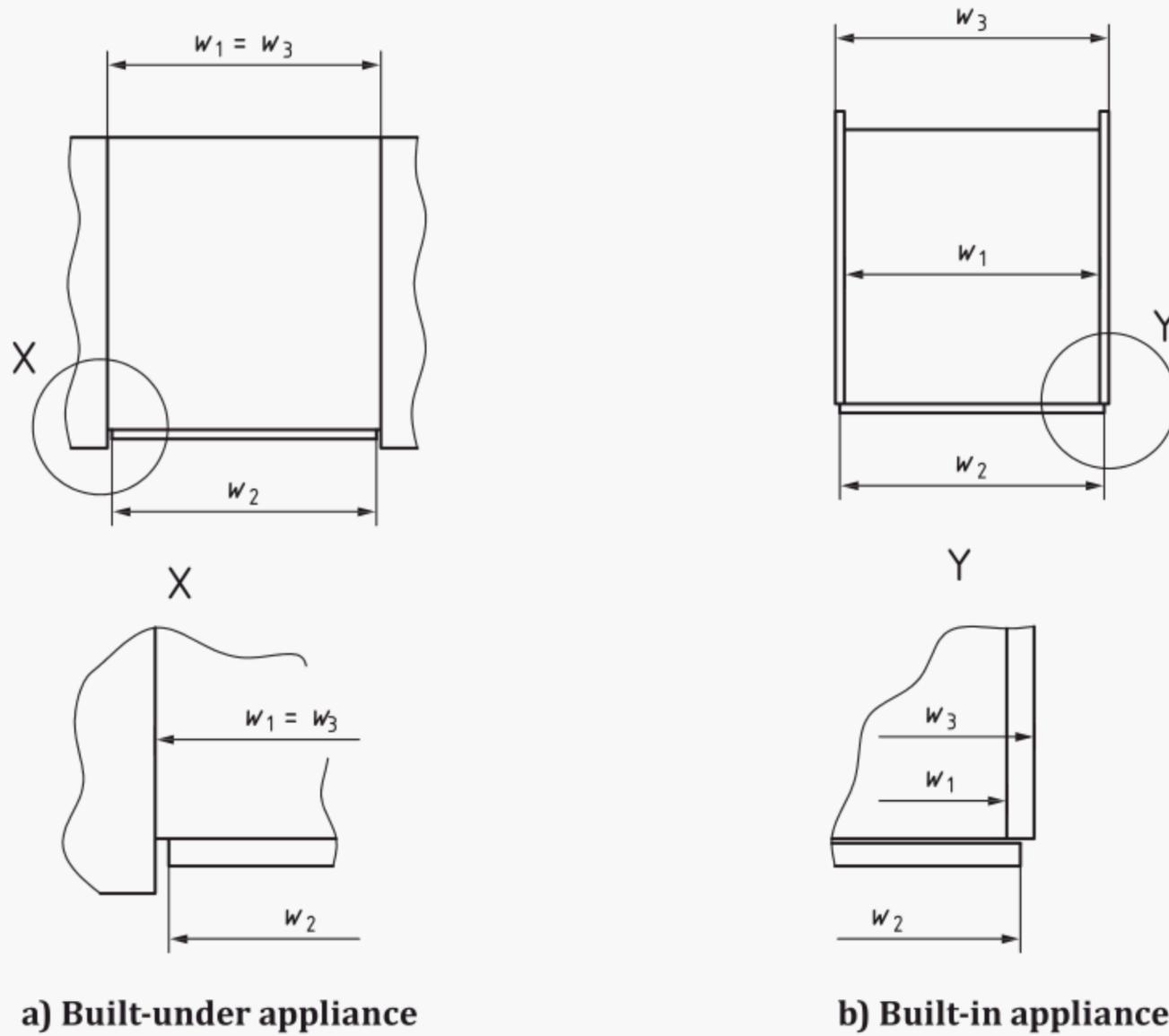
#### Key

- 1 wall attachment (protective wall panelling)
- $l_1$  depth of the worktop
- $l_2$  overhang of the worktop
- $l_3$  total depth of the kitchen unit or combined kitchen units
- $l_4$  depth of the kitchen unit
- $l_5$  depth of working area
- $l_6$  feet recess
- $l_7$  plinth recess
- $l_8$  depth of adjusting area
- $l_9$  depth of the kitchen units of the kitchen island with doors/fronts
- $l_{10}$  depth of the kitchen units of the kitchen island without doors/fronts

**Figure 2 — Depth of kitchen units and appliances (side view)**

#### 4.4 Width

The width of the recess/installation opening,  $w_1$ , and the overall width of the appliance front,  $w_2$ , are specified in relation to the width of the kitchen unit,  $w_3$ , according to [Tables 2](#) and [3](#) (see [Figure 3](#),  $w_1, w_2, w_3$ ).



**Key**

- $w_1$  internal width of the kitchen unit
- $w_2$  width of the front of the kitchen unit/appliance front
- $w_3$  kitchen unit width/recess width

**Figure 3 — Width of installation recesses and overall width of the appliance front (top view)**

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