

Australian Standard™

International fibreboard box code



This Australian Standard was prepared by Committee PK-025, Packaging Code. It was approved on behalf of the Council of Standards Australia on 26 September 2005.

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The following are represented on Committee PK-025:

Australian Paint Manufacturers Federation
Canmakers Institute of Australia
Department of Defence
Printing Industries Association of Australia

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Australian Standard™

International fibreboard box code

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PREFACE

This Standard was prepared by the Standards Australia Committee PK-025, Packaging Code to supersede AS 1048—1998, *International fibre box code*.

The objective of this revision is to revise the Standard so it complies with the current edition of the International Fibre Case Code.

This Standards Australia revision is based on the 2005 edition of the International Fibre Case Code (IFCC), which was prepared in collaboration with ESBO (The European Solid Board Organisation), which contains a methodical presentation of all existing box design styles, with a code number being assigned to each design. The category diagrams are identical with and reproduced from the International Fibre Case Code, 2005.

The IFCC is used world-wide and it has been adopted by the United Nations.

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STANDARDS AUSTRALIA

Australian Standard

International fibreboard box code

1 SCOPE

This Standard specifies a numerical system for the designation of types of fibreboard boxes by category, supplemented by letters and symbols related to dimensions and elements of construction.

2 CATEGORIZATION OF BASIC TYPE GROUPS

The numerical designation system set out in Table 1 shall apply.

TABLE 1
DESCRIPTION OF CATEGORIES

Category	Basic type group	Description
01	Commercial rolls and sheets	—
02	Slotted-type boxes	One piece with a glued, stitched or taped manufacturer's joint and top, and bottom flaps. They are shipped flat, ready to use and require closing by using the flaps provided.
03	Telescope-type boxes	More than one piece and characterized by a lid and/or bottom telescoping over the body of the box.
04	Folder-type boxes and trays	Usually consist of only one piece of board. The bottom of the box is hinged to form two or all side walls and the cover. Locking tabs, handles, display panels and the like can be incorporated in the design.
05	Slide-type boxes	Several pieces of liners and sleeves sliding in different directions into each other. This group also includes outside sleeves for other cases.
06	Rigid-type boxes	Two separate end pieces and a body, and require stitching or a similar operation before they can be used.
07	Ready-glued cases	One piece, are shipped flat and are ready to use by simple setting up.
09	Interior fitments	Include inside liners, pads, partitions, dividers, and the like, whether tied to case design or as singular items. Any shown number of panels is arbitrary and may be increased or decreased as required.

NOTES:

- 1 Several case designs contained in this Standard under a specific category could also be classified under other basic type groups.
- 2 The terms 'box', 'container' and 'case' are interchangeable in the context of these descriptions.

3 DESIGNATION

The designation of types of fibreboard boxes shall comprise the category followed by the style code as follows:

XX-YYYY

Where the category (XX) is listed in Table 1 and the style code (YYYY) shall be as specified, as 'Description', in the diagrams in Clause 7.

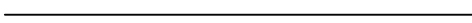
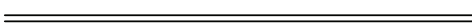
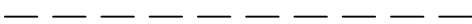
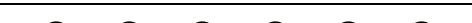
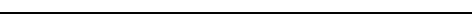
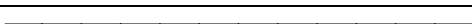
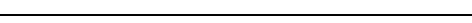
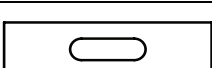
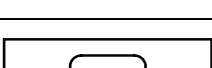
Example:

The first illustration in Category 02 in Clause 7 would be designated as 02-0200.

4 SYMBOLS USED IN DRAWINGS AND COMPUTER SYSTEMS

The symbols which are specified in Table 2 shall be used in the drawings and computer systems (CAD/CAM).

TABLE 2
SYMBOLS USED IN DRAWINGS AND COMPUTER SYSTEMS

Drawing symbol	Computer code	Description
Cuts, scores, slits, etc.		
	CL	Contours of erected cases or cutting lines of case blanks
	SC	Slotted cuts
	CI	Crease lines (inward bend)
	CO	Crease lines (outward bend)
	SI	Slit-score lines (inward bend)
	SO	Slit-score lines (outward bend)
	DS	Double-score lines
	PL	Perforation lines
	SE	Soft edge cutting lines
	TP	Tear perforation
Manufacturer's joint		
	SJ	Stitched joint
	TJ	Taped joint
	GJ	Glued joint
Openings		
	PC	Handholds stripped
	UC	Handhold non-stripped
	NC	Handhold non-stripped
Flute direction		
	FD	Flute direction indicator

5 DIMENSIONS, STYLES AND THE MANUFACTURER'S JOINT

5.1 Case dimensions

Unless otherwise specified, all dimensions shall be expressed as internal dimensions, in millimetres, as follows:

Length (L) $\times$ Breadth (B) $\times$ Height (H)

Length (L) = the longer dimension at the opening

Breadth (B) = the shorter dimension at the opening

Height (H) = the dimension from the top of the opening to the base

The dimensions L , B and H shall be specified in each description of the case construction. For some models the numerical value of B can exceed the numerical value of L . Dimensions shall be measured at $23 \pm 5^\circ\text{C}$, on the flat blank from the centre of crease bearing the thickness of the material.

For telescope-type boxes the height (h) of the upper part (lid) shall be given as a fourth measurement after an oblique stroke.

Example: $355 \times 205 \times 120/40 \text{ mm}$

$(L) \times (B) \times (H)/(h)$

For cases with overlapping outer flaps the length of the area of overlapping (o) shall be given as a fourth measurement after an oblique stroke.

Example: $355 \times 205 \times 120/40 \text{ mm}$

$(L) \times (B) \times (H)/(o)$

5.2 Sheet dimensions

5.2.1 General

Unless otherwise specified, the dimensions of a corrugated sheet shall be expressed, in millimetres, as follows:

1st dimension $\times$ 2nd dimension

1st dimension = along the glue lines

2nd dimension = across the glue lines

5.2.2 Style versions

Several case types may have derived versions without the necessity to create a new style. In this case, a suffix shall be added to the basic style number, separated by a dash.

Example: 0201-2

A version may be unique to the individual manufacturer.

5.2.3 Combination of types

The construction styles shown are of the basic types of fibreboard cases. If the ultimate construction is a combination of two or three basic models, e.g. flap arrangements, they may be described as follows, see Figure 1.

Example:

Top flaps as 0204, bottom flaps as 0215

This type may also be described as 0204/0215 (top flaps/bottom flaps).

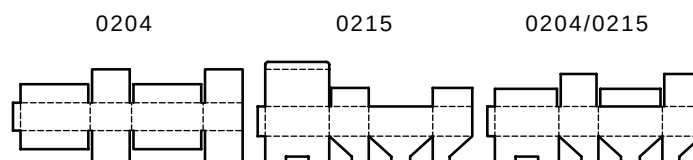


FIGURE 1 COMBINATIONS

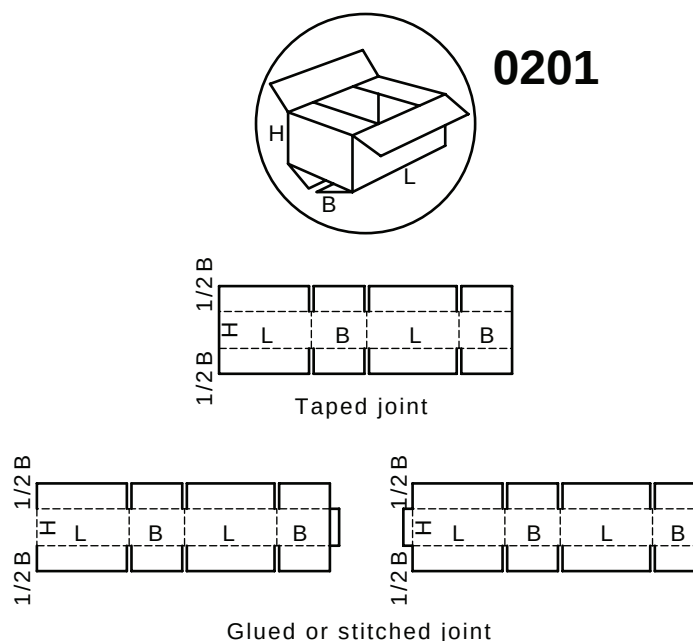
5.2.4 Styles and the manufacturer's joint

The drawing style layouts as shown in this Standard may need to be re-arranged depending on the chosen manufacturer's joint.

Some styles may have a manufacturer's joint that may be glued, stitched or taped. A glued or stitched joint may be an extension of either the short or the long panel.

Figure 2 illustrates an example of style and how it would be indicated on a drawing. This applies to all designs in this Standard.

NOTE: The layouts of the styles in this Standard are always viewed from the inside of the case.



NOTE: See Table 2.

FIGURE 2 STYLE AND JOINT

5.2.5 Manual of automated erection

Each design style includes one of the following indications:

- | | |
|-------|-----------------------------------|
| M | manual erection |
| A | automated erection |
| M/A | can be either manual or automated |
| M + A | required a combination of both |

NOTE: These indications are based on current practice and are intended to give additional information to specifiers and users.

Some manually erected cases can be closed automatically (e.g. 0216 or 0712).

5.3 Closure of the boxes

5.3.1 General

Correct and effective closure of the boxes is as important as the packaging construction itself. The following methods of closure of boxes are possible, either singly or in combination:

- (a) Gluing, cold or hot.
- (b) Taping.
- (c) Interlocking.
- (d) Stitching.

5.3.2 Closing by taping

Figure 3 illustrates examples of the various methods.

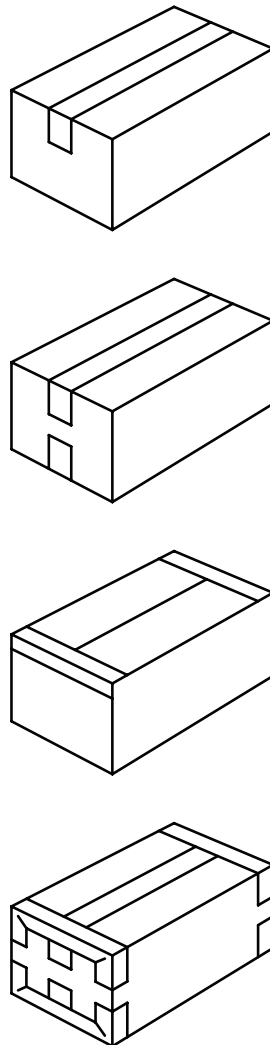


FIGURE 3 CLOSING BY TAPING

5.3.3 Closing by stitching

Figure 4 illustrates examples of the various methods.

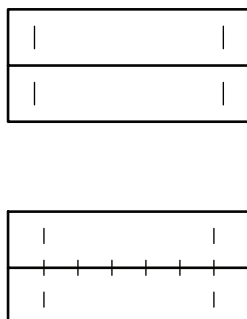
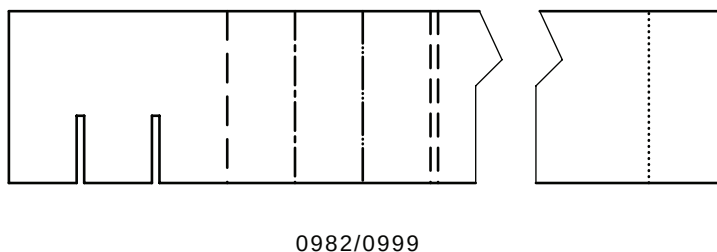


FIGURE 4 CLOSING BY STITCHING

6 CODING OF INTERIOR FITMENTS

The range of interior fitments, as shown in Figure 5, is coded, depending on the number of panels used, in any combination of shapes (for computer systems).



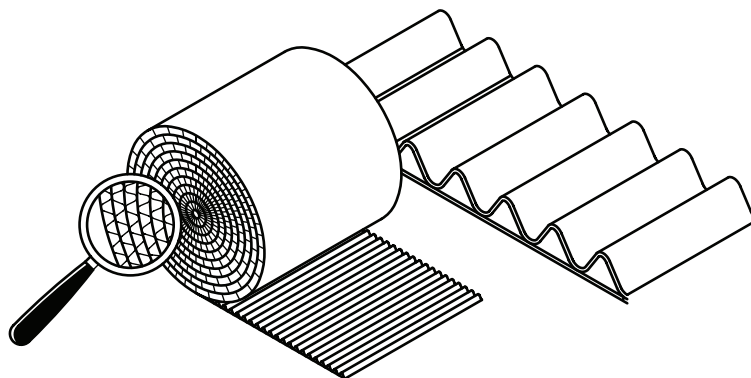
0982/0999

FIGURE 5 INTERIOR FITMENTS

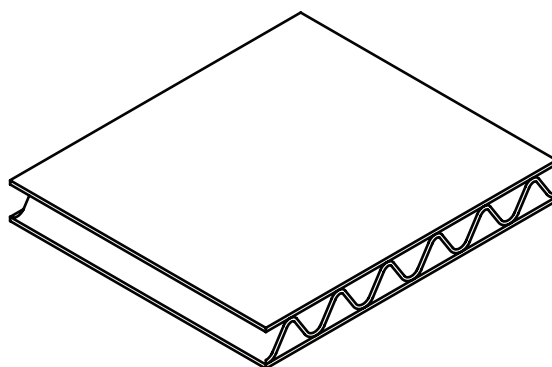
7 SPECIFICATION OF CATEGORIES AND STYLE CODES

The following illustrations provide specifications of the category and style code for a comprehensive range of sheet and box designs. The word 'description' has been used in the IFCC to mean style code.

NOTE: The illustrations are identical with and reproduced from the International Fibre Case Code (IFCC).

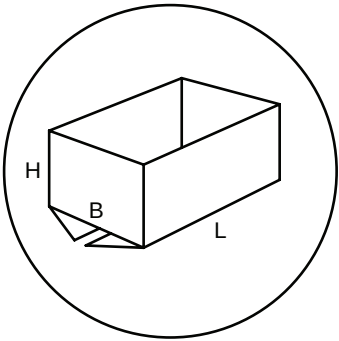
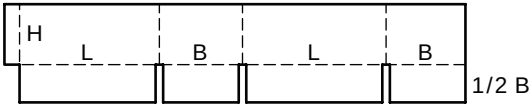
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Montage:

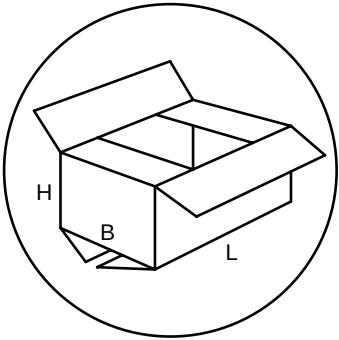
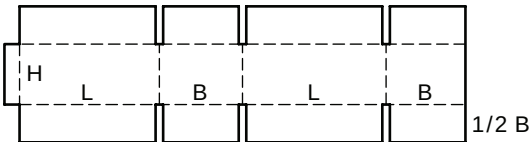
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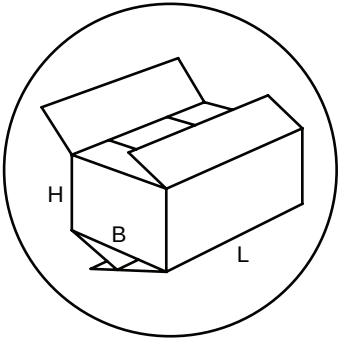
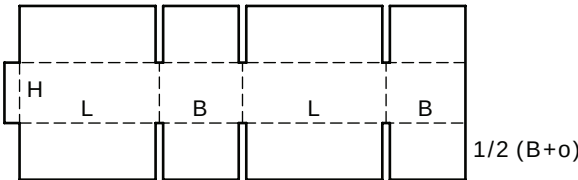
CATEGORY: 02



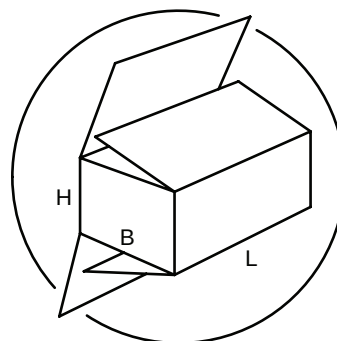
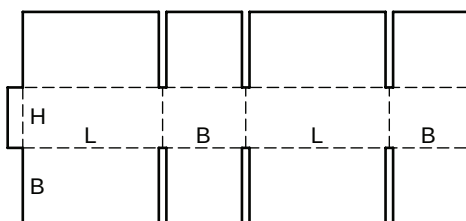
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Montage: M/A



Description: 0201
Montage: M/A

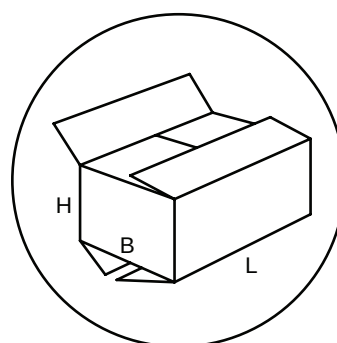
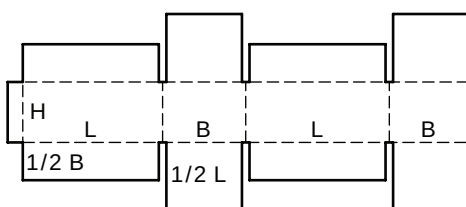


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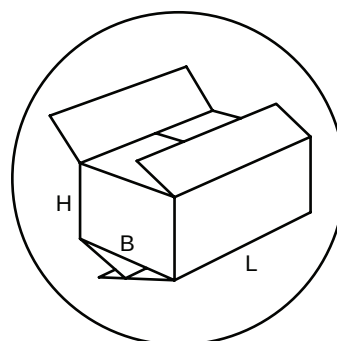
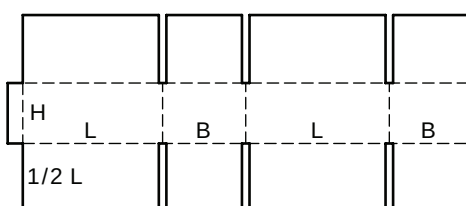
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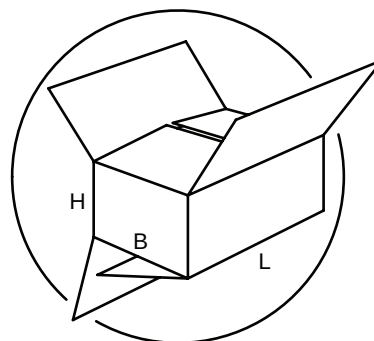
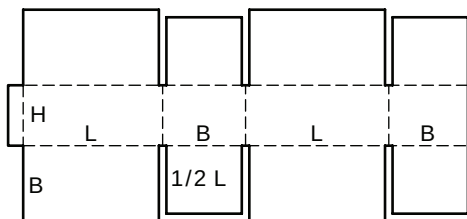
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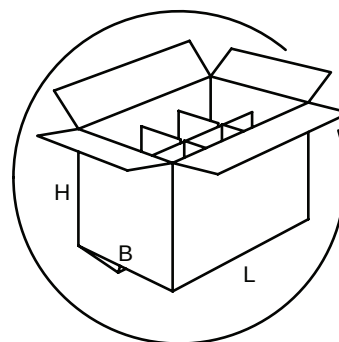
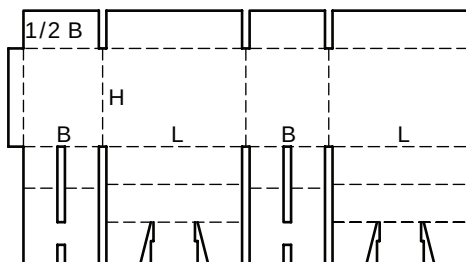
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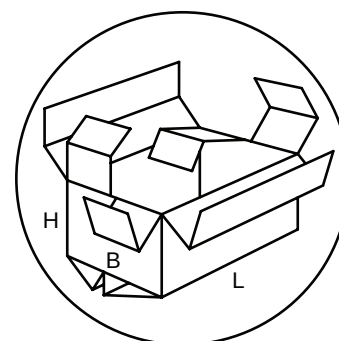
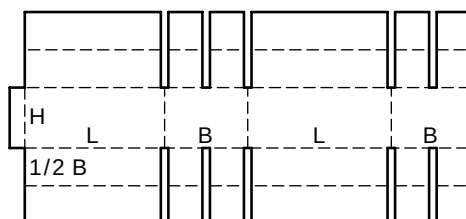
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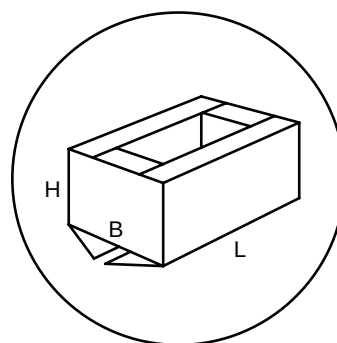
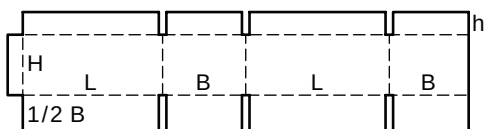
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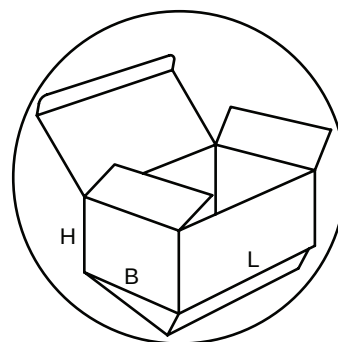
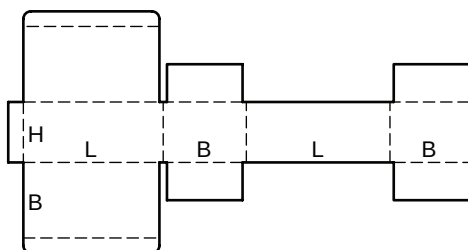
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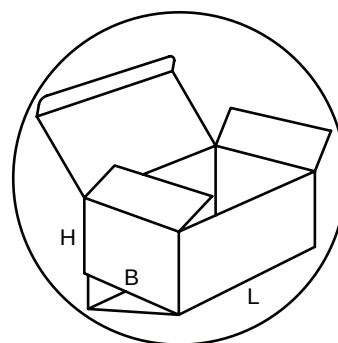
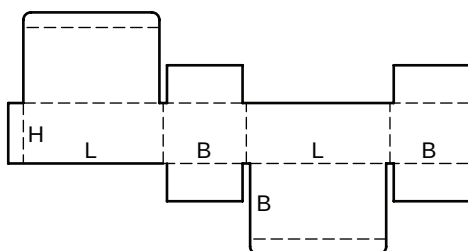
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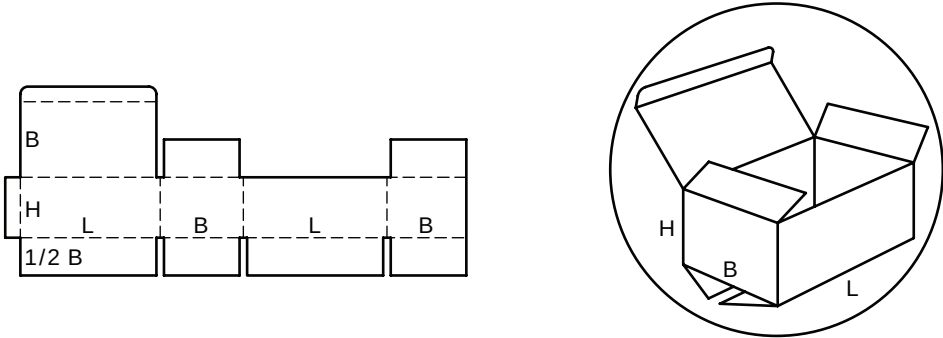
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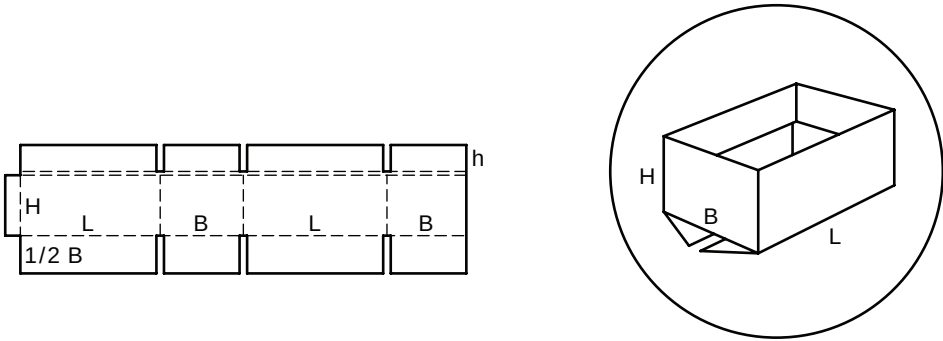


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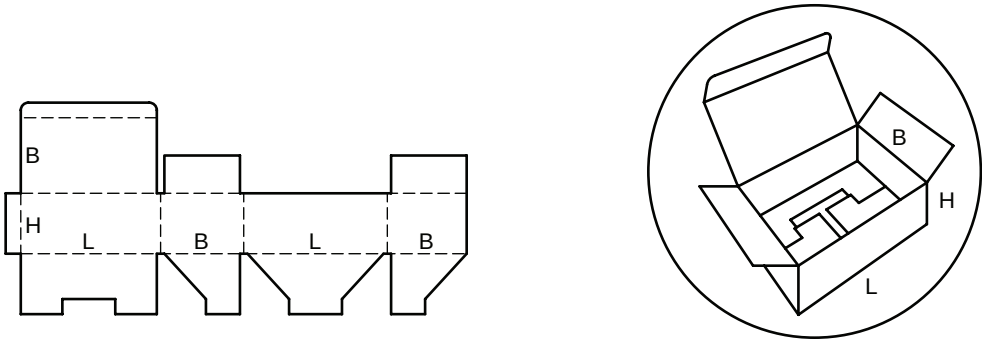
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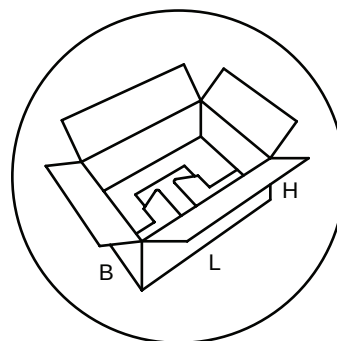
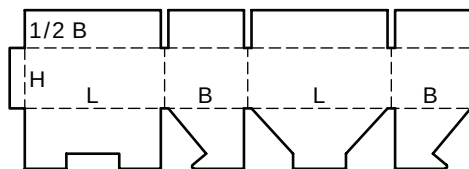
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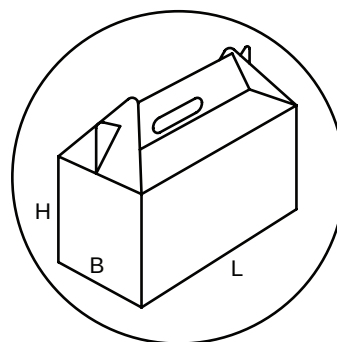
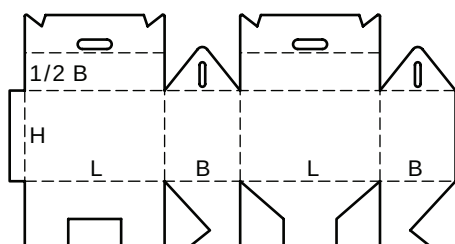
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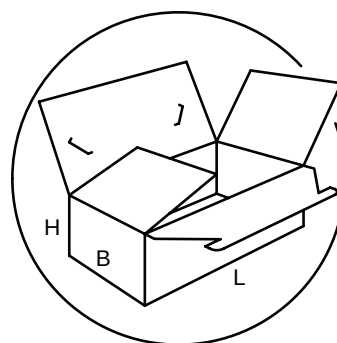
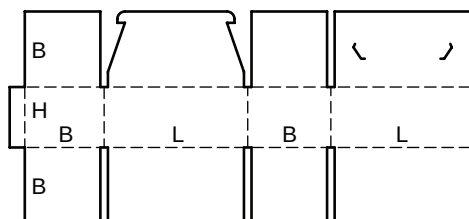
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**Description: 0216**

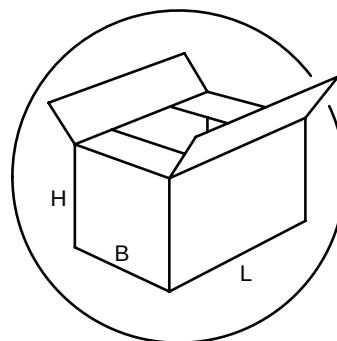
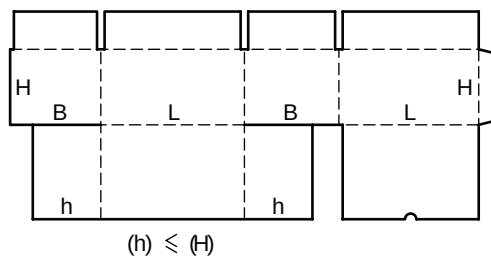
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Montage: M

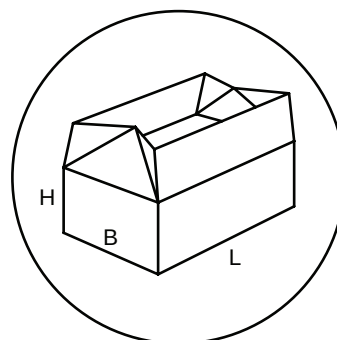
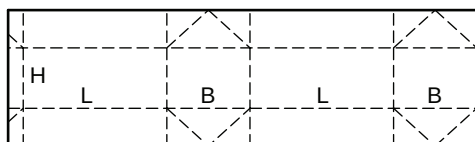
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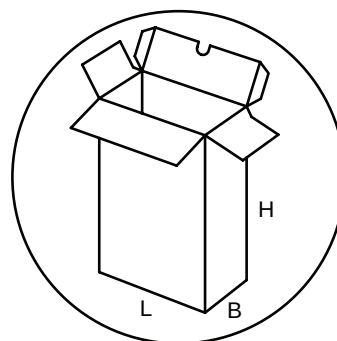
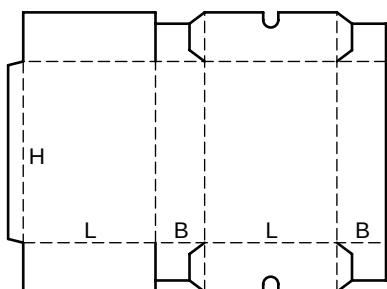
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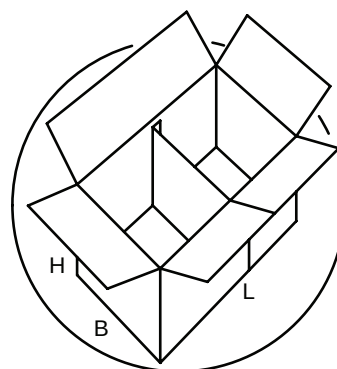
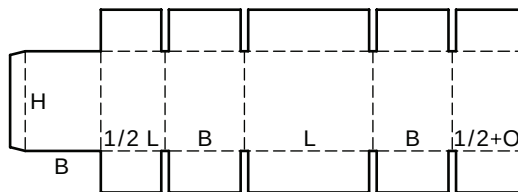
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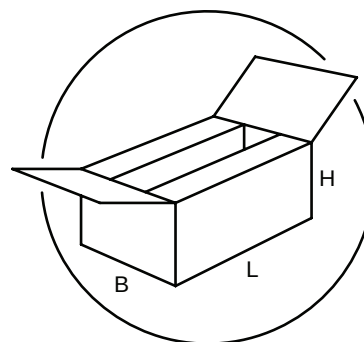
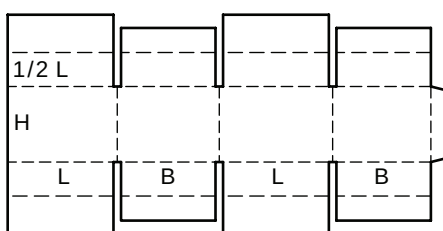


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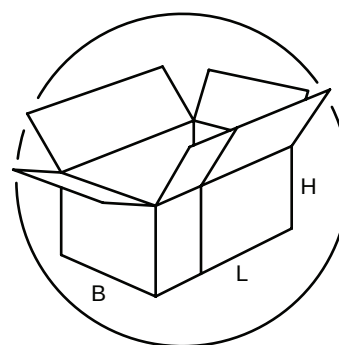
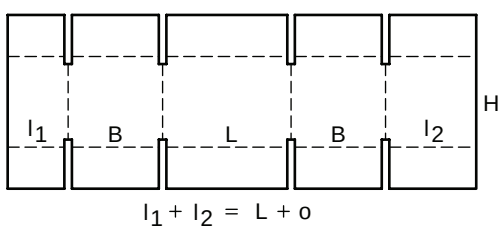
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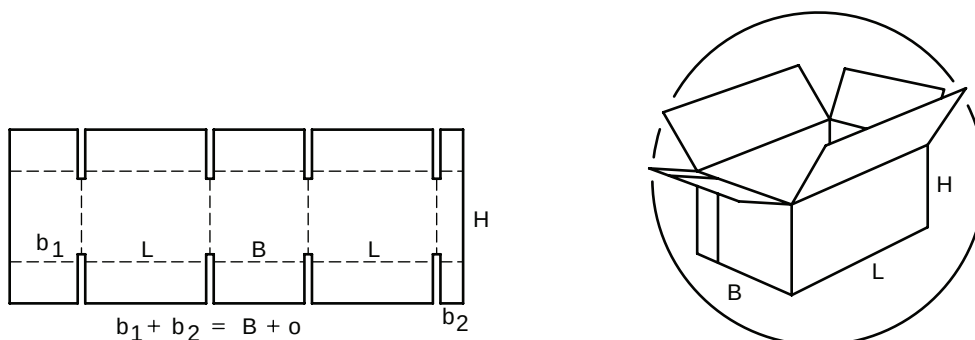
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Montage: M/A



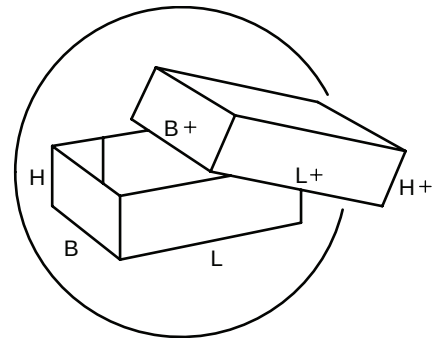
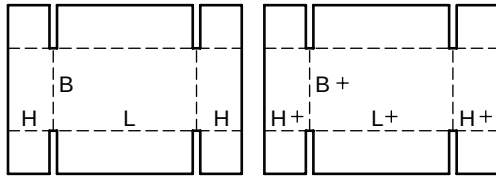
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Montage: M



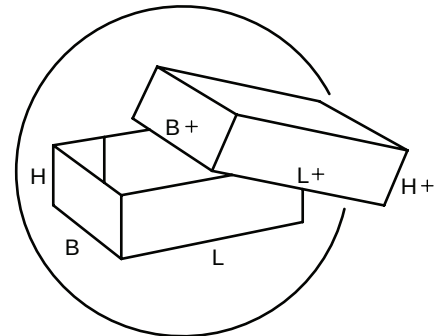
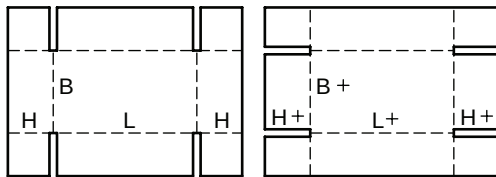
Description: 0230
Montage: M/A



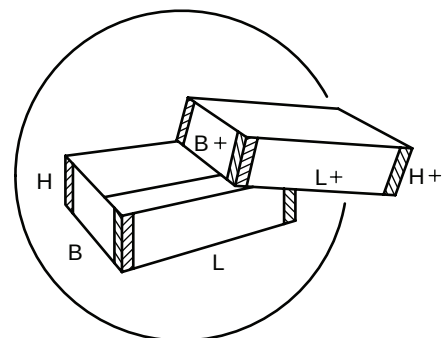
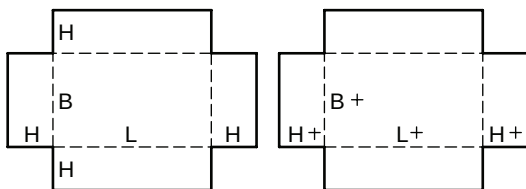
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Montage: M/A

CATEGORY: 03

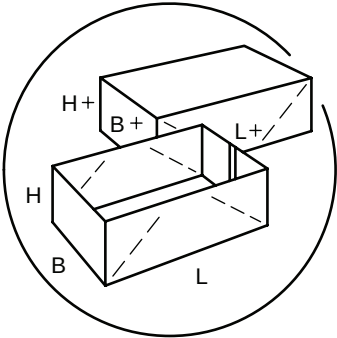
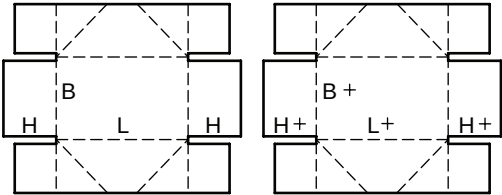
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Montage: M/A



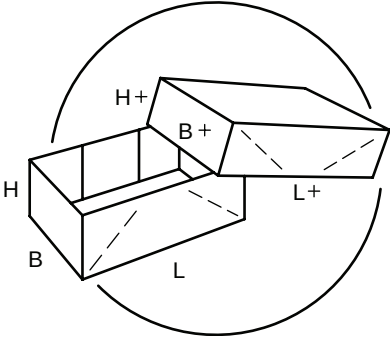
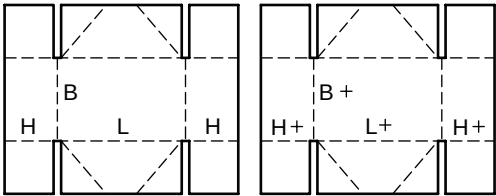
Description: 0301
Montage: M/A



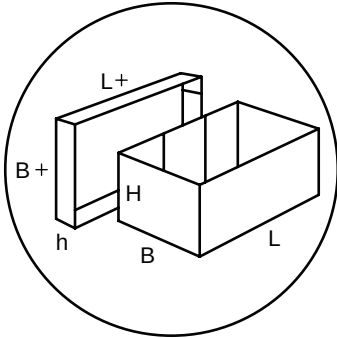
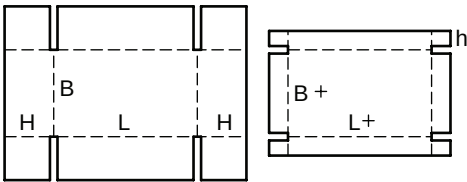
Description: 0302
Montage: M



Description: 0303
Montage: M



Description: 0304
Montage: M



Description: 0306
Montage: M/A