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EUROPEAN CARTON MAKERS ASSOCIATION

P.O. BOX 85612 NL-2508 CH The Hague The Netherlands

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Introduction

The publication of this completely revised edition of the ECMA Code of Folding Carton Design Styles is in pursuit of one of ECMA's major goals and commitments: to provide the carton making industry with convenient and up-to-date common standards that will facilitate clear communication at all levels of design and manufacture.

Originally published in 1967, the first ECMA Code was a pioneering work, documenting the then-predominant constructions long-seam-glued designs.

At that time, computer-aided design was new to the industry.

Changing manufacturing and market demand

During the ensuing decades, however, new design and production techniques have been rapidly and systematically introduced, influencing every step in the process of the design and manufacture of folding cartons. The ECMA Code was revised in 1992 to respond to both the dramatic changes in the industry itself and the requirements of carton makers' customers.

Digital presentation delivers new functionalities

With this new, completely revised edition, ECMA and the folding carton industry have acknowledged the need to embrace the digital age, and are proud to present the first digital version of the ECMA Code of Folding Carton Design Styles.

In addition to many functionalities to meet the needs of today's design and manufacturing practices, users can now view the folding sequence of the most common ECMA design styles via an interactive interface.

Additionally, the original ECMA designs have been updated; drawing symbols for lines have been introduced, set-up methods for the packaging are evaluated; additional languages are included and, perhaps most importantly, all the generic design drawings can now be exported in a CAD-CAM-friendly format.

Users can also now upload their own customised designs to this application, making this electronic version of the standard a really exceptional tool for promotional and educational purposes.

Download a printable version

A printable version of the ECMA Code, in pdf format, along with important information related to the folding carton industry, is available in the library section of the CD.

ECMA wishes all users success with this new release of a standard work of reference, and hopes that it will become an indispensable tool for achieving optimal results in the design and manufacture of folding cartons.



ECMA Code of Folding Carton Design Styles: the goals

- To be the industry's standard reference and official coding system, providing convenient and up-to-date common standards that will facilitate clear communication at all levels of design and manufacture.
- To group design styles logically in a limited number of group categories.
- To provide generic design drawings and folding sequences for the most frequently-used design styles.
- To be a promotional instrument for the folding carton manufacturing industry, demonstrating its versatility, adaptability, and creativity.
- To be a learning tool that supports education and training.
- To be the industry-standard archive of designs to be used as the reference platform in CAD-CAM structural design systems.
- To become the 'ideas book' for carton makers through creating the possibility to upload customised design and variations on existing designs.

Important note:

The 'non-goals' of the ECMA Code

The ECMA Code was never developed with the intention of becoming a mandatory construction manual or, in this case, mandatory design software. The drawings of the folding carton design styles used to compose the ECMA Code are purely generic. For ease of interpretation and understanding, and so as not to constrain the creativity of designers, some details and some derivatory design styles are not specified or shown.

It is therefore the responsibility of the users of the ECMA Code to verify which additional details are needed for a specific packaging construction.

ECMA and its members explicitly disclaim any responsibility in this respect.

Intellectual Property and Patented designs

Most of the cartons illustrated in this revised ECMA Code were also included in previous editions, and all the cartons illustrated have been on the market for many years. In their basic configurations as illustrated in this edition of the ECMA Code, all the designs can therefore be considered to be in the public domain. However, users remain responsible for checking prior to use whether specific solutions are patent and copyright protection free.

ECMA will not accept any responsibility in this respect.



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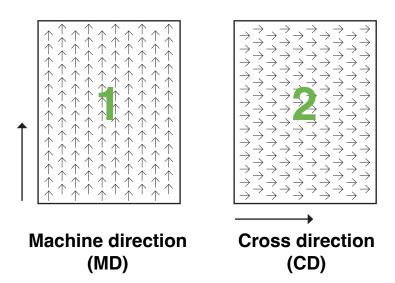
The ECMA coding system and how to use it

1. Drawing symbols

Line styles:

Drawing symbol	Line style code	Description						
	CL	Contours of erected boxes or cutting lines of blanks						
	FL	Crease or folding line						
•••••	PL	Perforation line						

Fibre direction indication:



2. Defining the dimensions of a package

The dimensions of a folding carton package are primarily dictated by three measurements - A, B and H - which indicate the dimensions of the packaging in millimetres (mm). Measurements are taken from centre to centre of the folding or creasing lines. It is recommended that the dimensions are determined using a flat, unfolded cutout of the packaging.

The outer dimensions of a folding carton package are also important in situations where the folding carton is an integrated part of a broader packaging concept, or when a multiple of the folding cartons are required to fit into a transit packaging container.

The dimensions of a folding carton are always given in the following pattern: A x B x H



A and B are the dimensions of the base of the packaging. H is the height of the packaging. For telescopic packaging designs and multi-part packaging designs, the dimensions are given for each part of the packaging.

Depending on the type of packaging, the dimensional indicators A,B and H are allocated in a different way.

The following rules apply:

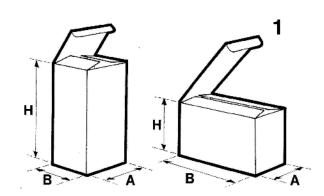
1. Folding cartons with top and/or bottom closure systems/covers

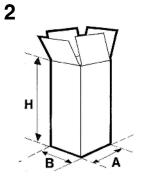
A = the dimension at the base of the packaging which is parallel to the hinge of the flap which closes last.

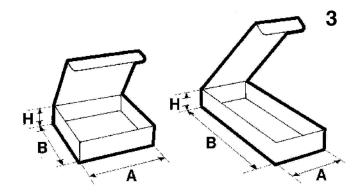
B = the second dimension at the base of the packaging.

H = the height, the perpendicular distance between the flaps which are closed first at the top and the bottom (the side flaps) of the erected packaging, or the height between the base and the cover.

See illustrations 1, 2, and 3:









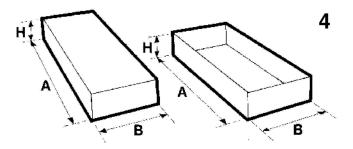
2. Folding cartons without a cover (tray type)

A = the longer dimension of the base of the packaging.

B = the second, shorter dimension of the base of the packaging.

H = the height of the packaging - the perpendicular measurement from bottom to top

See illustration 4:



3. Illustrations in the ECMA Code

Two-dimensional illustrations

Two-dimensional (cutout) drawings show generic diecut blanks. Only the main cutting and creasing lines, and some critical details are shown. Drawings are always presented 'printed side up' (i.e. the outer side of the finished carton).

Three-dimensional illustrations

Three-dimensional illustrations (wire-frame) show the package in its final ready- to-use state, complete with its main closure/opening device. With these illustrations, we aim for easy communication and understanding between customer and manufacturer of the proposed structure of the carton.

3D interactive presentation (only in software version)

An interactive interface demonstrates how the package is folded, from the original 'blank' right through to its ready-to-use state. The folding sequence can either be viewed step by step, or in automatic mode. Additional functions, such as 'zoom in' and 'zoom out', 'transparent view mode', 'spin image', 'fit to page', and 'pan' are offered.



4. Set-up method or erection of the package

The use of automatic filling lines by contract packers and end users is widespread today, so it is important to take into account, and document, whether a package is to be manually or automatically erected.

Manual or Automated erection

M - usually manual erection

A - usually automated erection

M/A - can be either manual or automated

M+A - requires a combination of both

These indications are based on current practice.

5. Market segments

In the creation of these standards, the need to provide a search engine able to identify design styles per market segment was taken into account. All illustrated design styles were therefore allocated to the categories shown in the tables below.

Categories A6 and B7 include those design styles which have a general use in the food or non-food segments, but were difficult to relate to any one or more specific sub-market segments.

A. Food

- 1. Breakfast, cereal products
- 2. Cakes, biscuits, bakery products
- 3. Chocolate, sugar, confectionery
- 4. Frozen/chilled foods, ready meals, desserts
- 5. Wines, spirits, beers, soft drinks
- 6. Other foods and food products

B. Non-food

- 1. Cosmetics, health and beauty care
- 2. Cigarettes, tobacco, and accessories
- 3. Household cleaning, laundry products
- 4. Miscellaneous household products
- 5. Paper, stationery, related goods
- 6. Pharmaceuticals, medical products
- 7. Other Non-food products



6. Design type groupings

In view of the wide variety of many folding carton design styles, the designs have been classified in different stylistic groups. This classification is based on the main properties of the body of the package.

Group titles and their definition

There are seven different design type groups:

Group A: Long-seam-glued folding cartons with rectangular surfaces

- A glue seam in H (height) is compulsory (tube type package)
- All outer panels are at angles of 90° to each other (except gable top containers or some other sealed closures)

Group B: Non-long-seam-glued folding cartons with rectangular surfaces

- There is no long-seam-gluing (tray type package)
- All outer panels are at angles of 90° to each other

Group C: Long-seam-glued folding cartons with non-rectangular surfaces

- A glue seam in H (height) is compulsory (tube type package)
- At least one of the surfaces of the main body of the package (a panel) is not rectangular
- The height (H), or the vertical panel, does not necessarily form an angle of 90° with the base

Group D: Non-long-seam-glued folding cartons with non-rectangular surfaces

- No long-seam-gluing in H (tray type package)
- At least one of the surfaces of the main body of the package (a panel orthe base) is not rectangular
- The height (H) or the vertical panel does not necessarily form an angle of 90° with the base

Group E: Product-related or integrated folding cartons

 Designed to work in combination with specific goods/products or primary package contents



Group F: Other folding carton styles

- This group comprises all styles of folding cartons that cannot be attributed clearly to one of the main groups A to E
- A specific table gives an overview of the different sub-groups, as well as a description of each design style in each sub-group (NB there is no matrix table for this group)

Structure of the sub-groups in Group F:

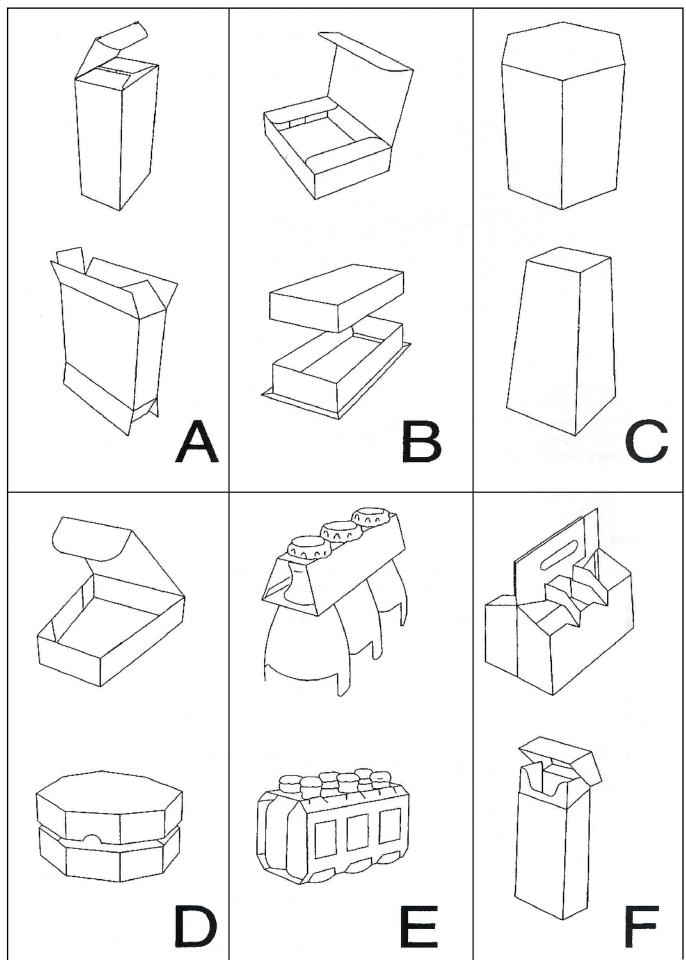
- 10 = Special design related to main Group A
- 20 = Special design related to main Group B
- 30 = Special design related to main Group C
- 40 = Special design related to main Group D
- 50 = Special design related to main Group E
- 60 = Special design with flat surfaces (panels)
- 70 = Special design with curved surfaces
- 80 = Separate inlay devices

Group X: Auxiliary devices for all groups

 Special features/specific attributes which can be used in combination with the design styles of Groups A,B,C,D,E and (some) F



7. Synoptic table



8. The coding system

To define, and to allocate a code number to, a specific design requires the use of the matrix tables developed for all the different groups.

The matrix tables list the most commonly-used practical variations or style elements for a specific group, vertically and horizontally in the rows and columns.

The matrix tables can be found at the start of every group chapter in the booklet, or can be viewed after clicking the matrix table button in the electronic catalogue.

The tables developed for groups F and X do not, of course, have the same functionality as the tables associated with Groups A to E. They are only a summary of possible designs, or special features, from which a choice may be made.

Each property, element, or detail described in the different matrix tables is connected with a numerical double-digit code.

The structure of the code

A design code always starts with a capital letter, which indicates to which primary group it belongs. It is followed by four groups of double-digit numbers, connected to variables which are specific for the group. These are described in detail in the matrix tables.

The fact that the X-group is a listing of special features/auxiliary devices which can be part of multiple packaging designs creates the need for a fifth group of double- digit numbers. Note that an X-group code cannot ever constitute a code for a complete design style.

The table below gives an overview of the variables which form the code for the design styles.

Group (Capital letter)	Variable (1st group of 2 digits)	Variable (2nd group of 2 digits)	Variable (3rd group of 2 digits)	Variable (4th group of 2 digits)	X feature (op- tional)
A Bottom closure type		Top closure type	Panel number	Panel number	
В	Basic shape	Locking flaps system	Number of dust flaps	Type of cover	
С	Body	Basic shape	Bottom closure type	Top closure type	
D	Glued/not glued	Basic shape	Locking flaps system	Type of cover	
Е	Product	Closure system	none(00)	none(00)	
F	list	list	none(00)	none(00)	†
Χ	list -				



9. How to use the ECMA Code

To use the ECMA code to allocate a code to a design style or vice versa, you need to make use of:

- The synoptic table (shown on page 12), which illustrates the typical design styles used in the different groups as well as appropriate group definition.
- Once a design style is allocated to a certain group (providing the capital letter of the design code), the first column of the associated matrix table should be consulted to define the first group(s) of double-digits numbers in the design code.
 Now identify the specific package properties, elements, details, etc. following the coding instructions at the bottom of the matrix table.
- If a special feature or an auxiliary device is used in the design style, use the double-digit code for the corresponding feature illustrated in the X group as the optional fifth group of double-digit numbers.

To find a design style from an existing ECMA Code:

- The capital letter indicates the group in which the design style is listed
- Search for the matrix table corresponding to that group
- Search for the first group(s) of double-digit numbers in the columns of the matrix table, and for the following groups of double-digit numbers in the **rows** of the matrix table
- In some of the matrix tables, an 'O' indicates that the design style, and its common applications, are illustrated in the manual

General:

The hierarchy in which the codes are presented is from the simplest to the most complex styles and structures.

This applies for the initial groupings as well as for the variable elements listed in the different matrix tables.

A conversion table listing all the codes of the design styles illustrated in the previous edition of the ECMA Code, alongside its new design style coding, is included.

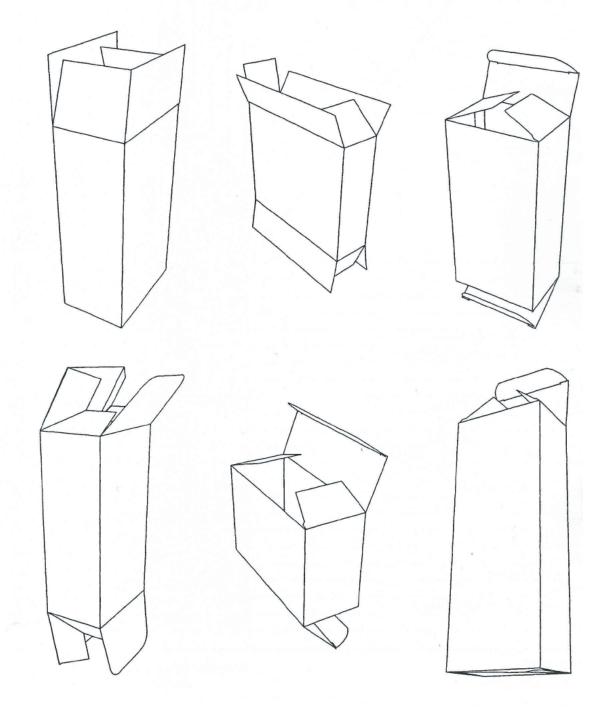


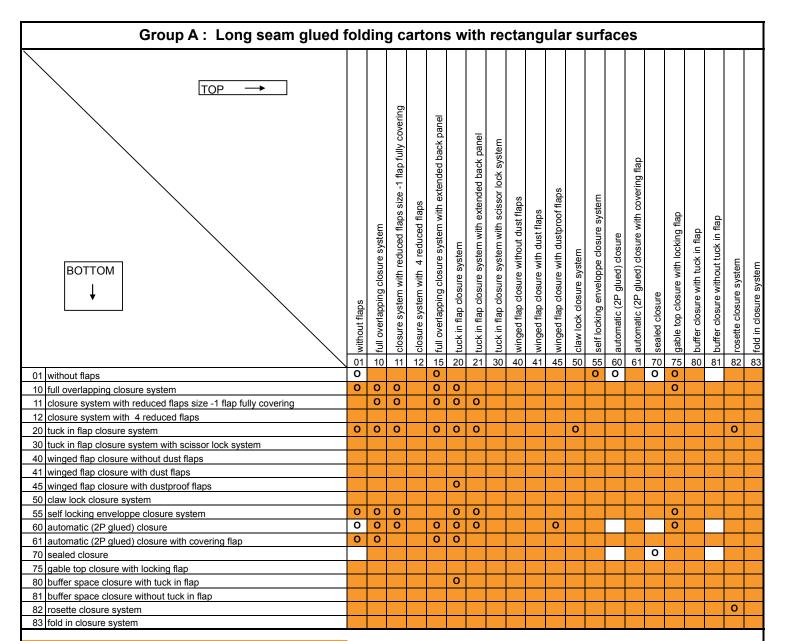
Catalogue

Group A: Long-seam-glued folding cartons with rectangular surfaces

Definition:

- A glue seam in H (height) is compulsory (tube type package)
- All outer panels are at angles of 90° to each other (except gable top containers or some other sealed closures)





more combinations possible

O : illustrated in the catalog

For special designs from Group A see Group F10

Coding of the group A

Group Name : A

1st group of 2 digits: describe the closure system used for the BOTTOM

2nd group of 2 digits: describe the closure system for the TOP

3rd group of 2 digits: describe to what panel the Extended back panel/Tuck in flap /covering flap/ last closing flap is connected for the bottom closure 4th group of 2 digits: describe to what panel the Extended back panel /tuck in flap/covering flap / last closing flap is connected for the top closure Panels are numbered from the glue seam from 1 to 4



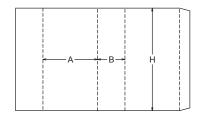
Closure systems of Group A

01	without flaps		
10	full overlapping closure system	A	
11	closure system with reduced flaps size -1 flap fully covering	A	
12	closure system with 4 reduced flaps		
15	full overlapping closure system with extended back panel		8
20	tuck in flap closure system		
21	tuck in flap closure system with extended back panel		
30	tuck in flap closure system with scissor lock system		
40	winged flap closure without dust flaps	RES	
41	winged flap closure with dust flaps	B	
45	winged flap closure with dustproof flaps		
50	claw lock closure system	A	
55	self locking enveloppe closure system		ATT
60	automatic (2P glued) closure		AMA
61	automatic (2P glued) closure with covering flap		
70	sealed closure	4	
75	gable top closure with locking flap	A	
80	buffer closure with tuck in flap		
81	buffer closure without tuck in flap		
82	rosette closure system		
83	fold in closure system		'tttt'



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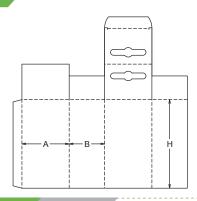
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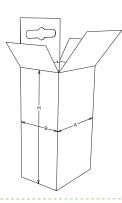




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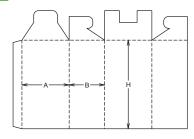
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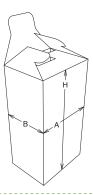




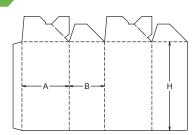
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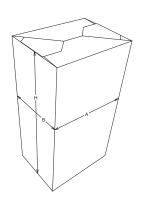
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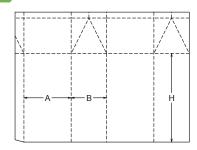
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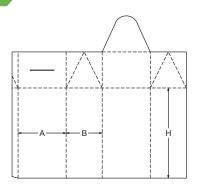
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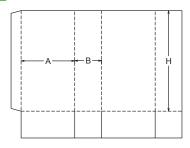
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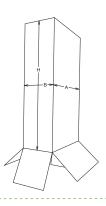




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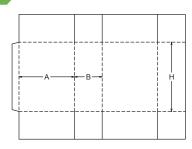
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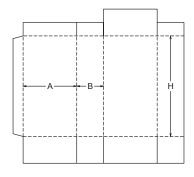
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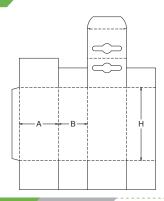
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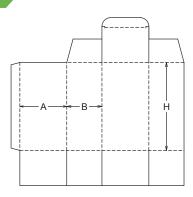
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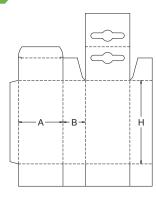
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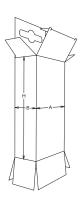




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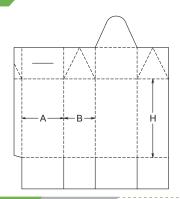
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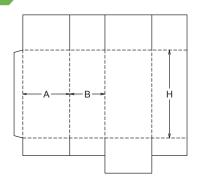
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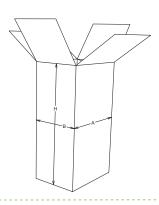




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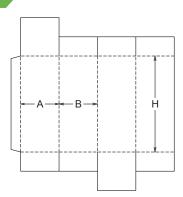
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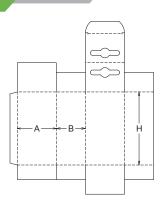
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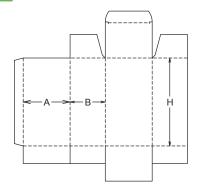
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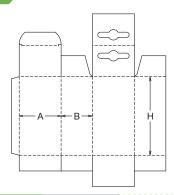
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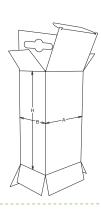




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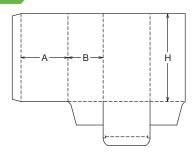
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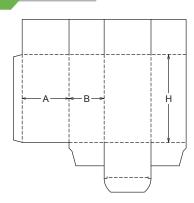
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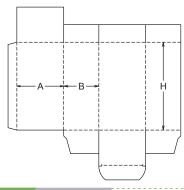
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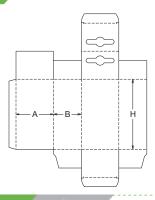
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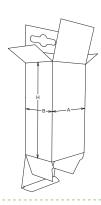




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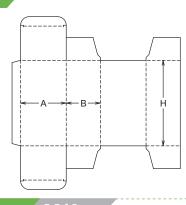
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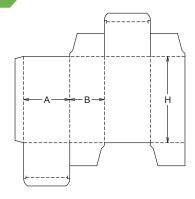
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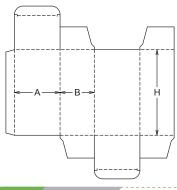
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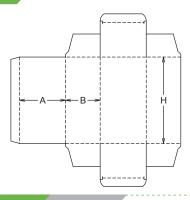
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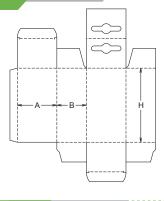
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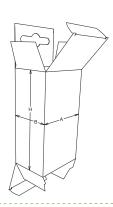




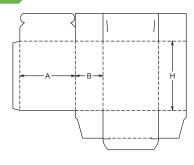
A20.21.03.03

M





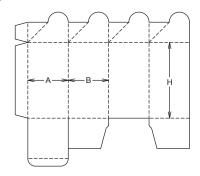
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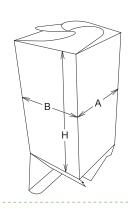




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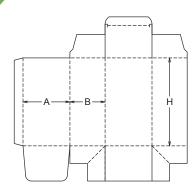
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A45.20.01.03

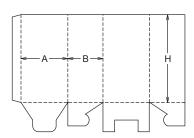
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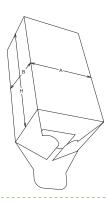




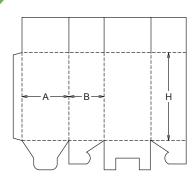
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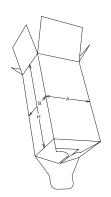
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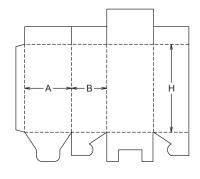
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A55.11.01.03

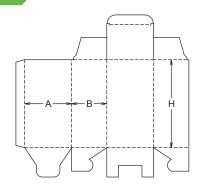
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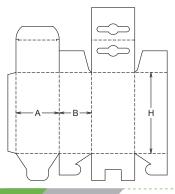
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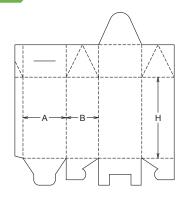
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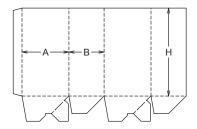
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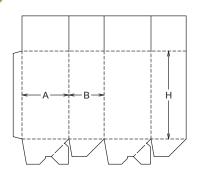
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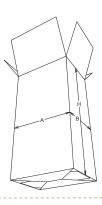




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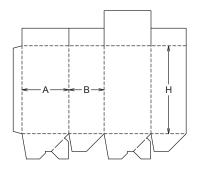
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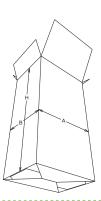




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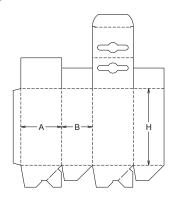
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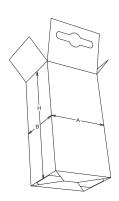




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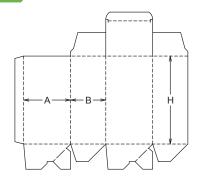
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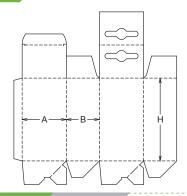
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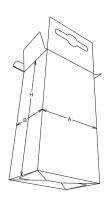




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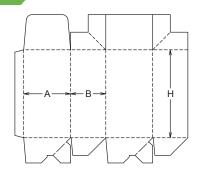
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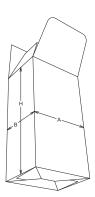




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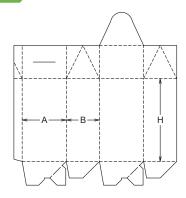
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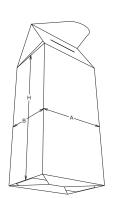




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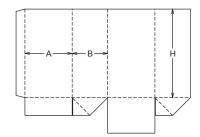
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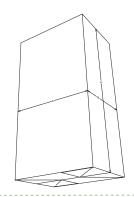




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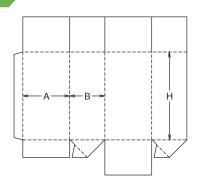
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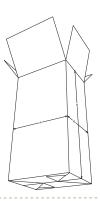




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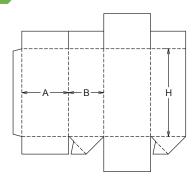
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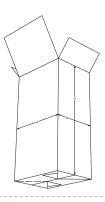




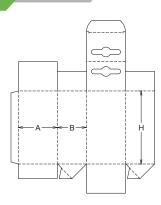
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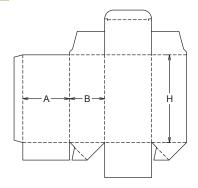
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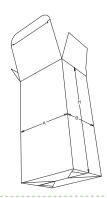




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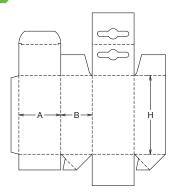
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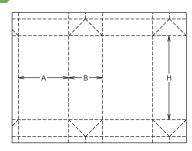
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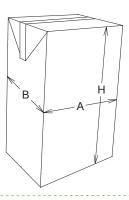




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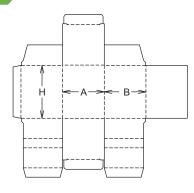
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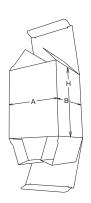




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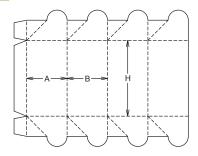
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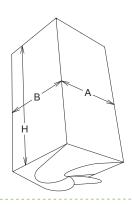




A82.82.00.00

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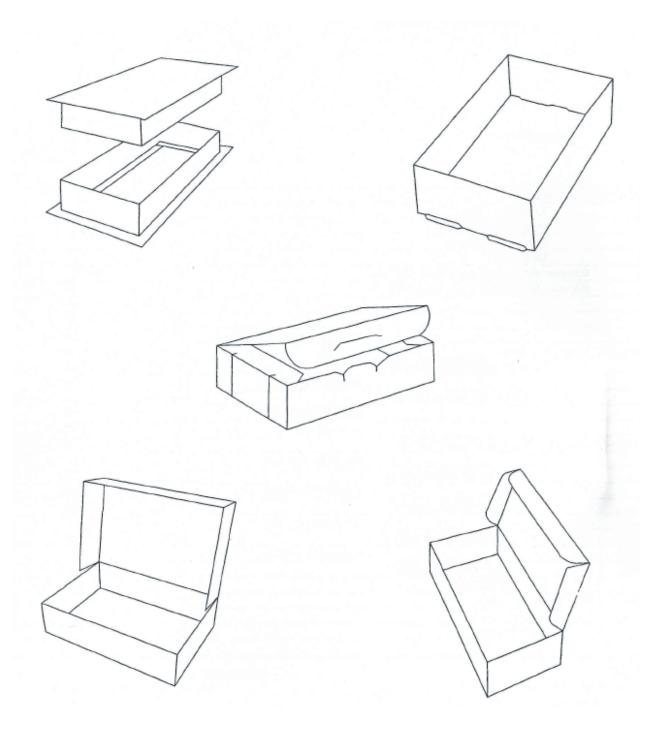




Group B: Non-long-seam-glued folding cartons with rectangular surfaces

Definition:

- There is no long-seam-gluing (tray type package)
- All outer panels are at angles of 90° to each other



Group B: Non Long seam glued folding cartons with rectangular surfaces																												
		Locking flaps system									Dust flaps				Cover lid													
Locking flap Dust flaps Cover Closuresystem BASIC SHAPE	locking flaps system with fold over ends with nib locks	S locking flaps system with fold over ends with expansion piece	ଓ locking flaps system with fold over ends with addtional lock device	A locking flaps system with fold over ends with webbed corners	ଜ locking flaps system with scissor lock system	ଚ locking flaps system with claw lock system	O locking flaps system with claw lock system and locked dust flaps	Social plans system with fold over ends	ant glued corner /panel & not webbed corner	not glued corner/panel webbed	00 glued corner/panel , not webbed	21 glued corner/panel -webbed	S glued corner/panel , not webbed , downfoldable inwards	ଅ glued corner/panel , webbed downfoldable inwards	R glued corner / panel , not webbed , downfoldable outwards	ന glued corner/ panel webbed , downfoldable outwards	1 dust flap on basic tray	S 2 dust flaps on basic tray	3 dust fips on basic tray	A dust flaps on basic tray	Stuck in flap cover system	double walled tuck in flap cover system	රි 2 flap lid winged flap cover	යි 3 winged flap cover with open corners	3 winged flap cover with webbed corners	Cover closure with claw lock	S complete flap cover with closed corners	2 complete flap cover 2 point preglued
10 unglued selflocking tray with 4 double walls	0	0		0				- 1																				
11 unglued selflocking tray with 4 double walls with locking corners		0	T	0																		T		T	T		ıΠ	
14 unglued selflocking tray with 4 buffer walls		0																										
15 unglued tray with 4 single walls						0	0																				П	
20 unglued selflocking tray with 2 double walls	0			0	0			İ														一		T		一	П	
30 selflocking tray with preglued side panels								一																T	寸		ıΠ	
31 selflocking tray with preglued side panels with locking corners								İ														一		T		一	П	
32 selflocking tray with 4 double walls with intergrated flanged basis		0						T																寸	一	\exists	ΠĪ	
40 glued tray with 4 single walls											0	0	0									T		寸	一	\exists	ΠĪ	
42 glued tray with 1 double wall																								T			ıΠ	
44 glued tray with 2 double walls											0		T	0			T					一		寸	一	一	T	
46 glued tray with 3 double walls																						一			寸		T	
48 glued tray with 4 double walls		0									0					7								寸	寸	\neg	ı	
49 glued tray with 4 buffer walls											0	0					T					一		寸	一	一	T	

ONPOSSIBLE COMBINATION
CODE COMBINATION ONLY TO BE USED WHEN MORE DETAILED PROPERTIES ARE NOT SPECIFIED IN OTHER CODES

0: designs based on this basic shapes are illustrated in the catalog
Some designs can be used as a single tray or as a telescopic packaging system, in such cases dimension need to be adjusted between Top and Bottom tray.
For special designs of Group B see group F 20

Coding of the group B

Group Name: B
First group of 2 digits: describe the basic shape of the tray
Second group of 2 digits: describe the flap locking system; when not applicable indicate 00
Third group of 2 digits: describe the number of dust flap on the basic tray; when not applicable indicate 00
Fourth group of 2 digits: describe the cover system; when not applicable indicate 00



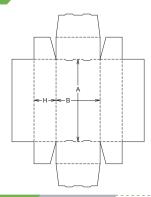
Closure systems of Group B

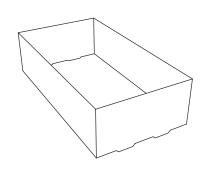
Ciosui	e systems of Group B		
01	locking flaps system with fold over ends with nib locks		
02	locking flaps system with fold over ends with expansion piece		
03	locking flaps system with fold over ends with additional lock device		
04	locking flaps system with fold over ends with webbed corners		A
05	locking flaps system with scissor lock system		
06	locking flaps system with claw lock system	FF	
07	locking flaps system with claw lock system and locked dust flaps		
08	locking flaps system with fold over ends		
10	not glued corner /panel & not webbed corner		
11	not glued corner/panel webbed		
20	glued corner/panel , not webbed		
21	glued corner/panel -webbed	A	
22	glued corner/panel , not webbed , downfoldable inwards		
23	glued corner/panel , webbed downfoldable inwards	A A	
24	glued corner / panel , not webbed , downfoldable outwards		
25	glued corner/ panel webbed , downfoldable outwards		
50	tuck in flap cover system	A	
51	double walled tuck in flap cover system	A	
52	2 flap lid winged flap cover		
53	3 winged flap cover with open corners		
54	3 winged flap cover with webbed corners		
55	Cover closure with claw lock		
60	complete flap cover with closed corners		
61	complete flap cover 2 point preglued		



B10.01.00.00

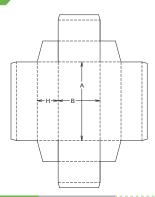
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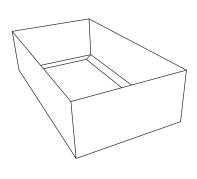




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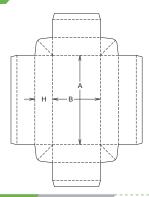
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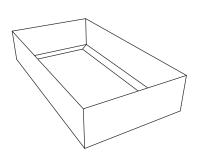




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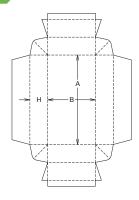
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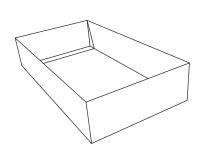




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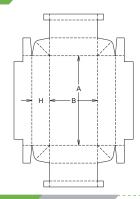
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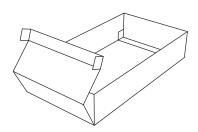




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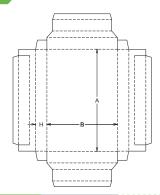
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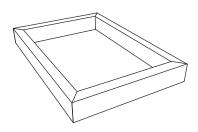




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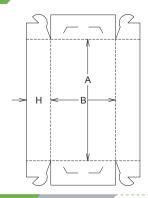
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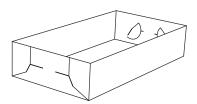




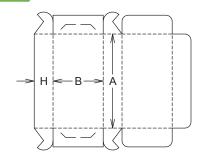
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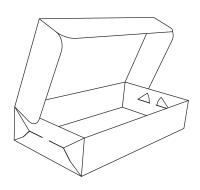
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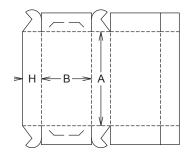
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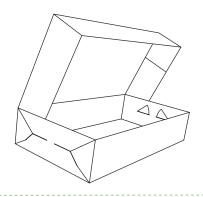




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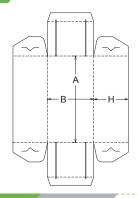
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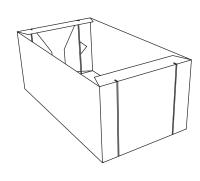




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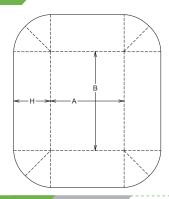
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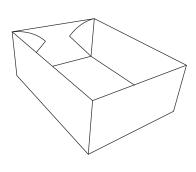




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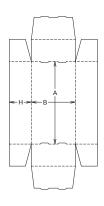
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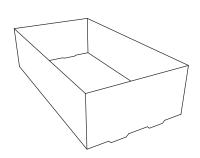




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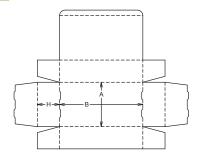
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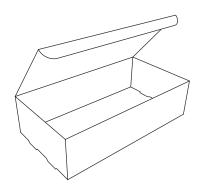




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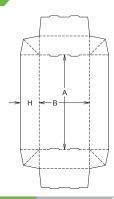
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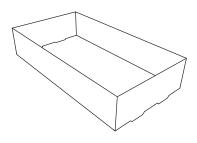




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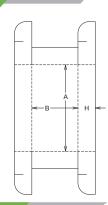
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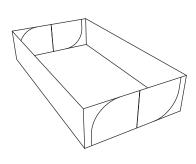




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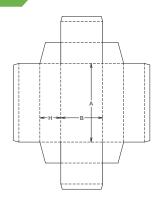
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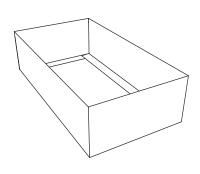




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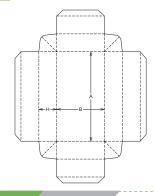
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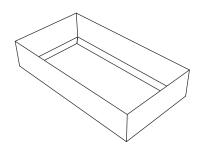




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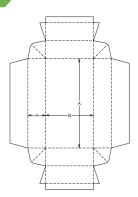
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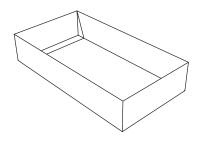




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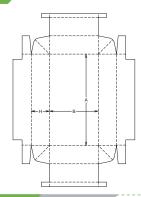
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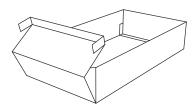




B31.04.00.00

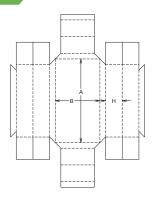
M/A

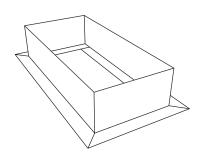




B32.02.00.00

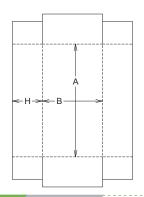
М

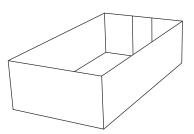




B40.20.00.00

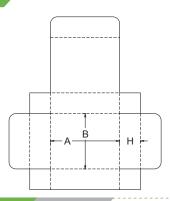
Δ

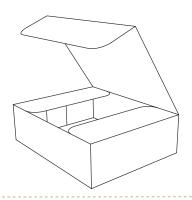




B40.20.82.50

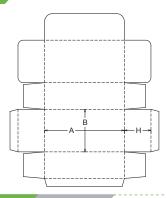
Δ

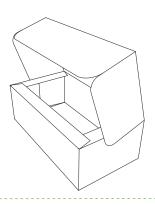




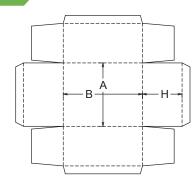
B40.20.83.53

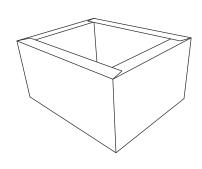
Α





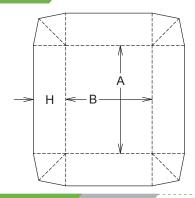
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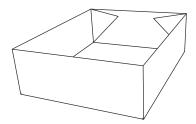




B40.21.00.00

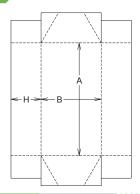
A

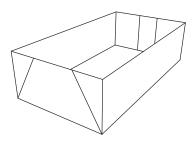




B40.22.00.00

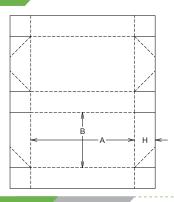
М

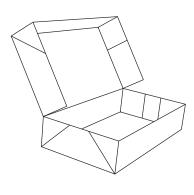




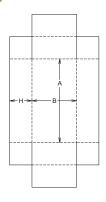
B40.22.00.61

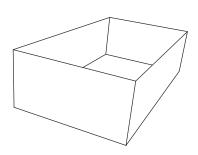
М





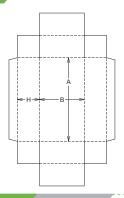
B44.20.00.00

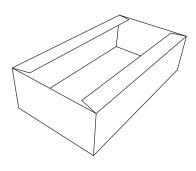




B44.20.82.00

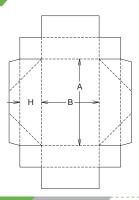
Δ

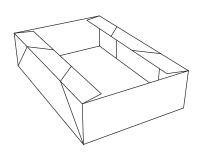




B44.23.82.00

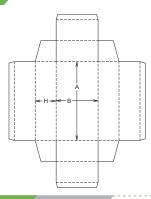
М

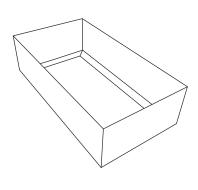




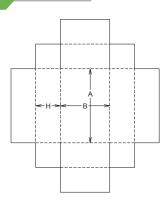
B48.02.00.00

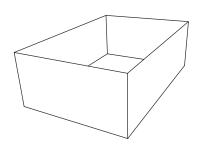
М





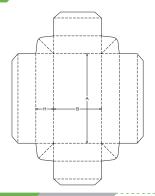
B48.20.00.00

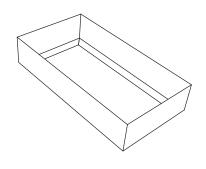




B48.21.00.00

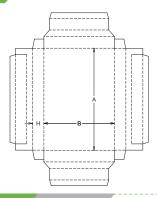
M+A

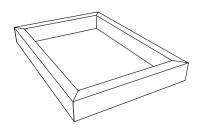




B49.20.00.00

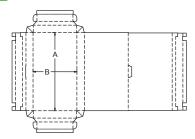
 $M + \Delta$

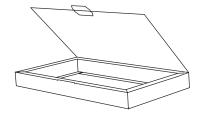




B49.21.00.51

M+A

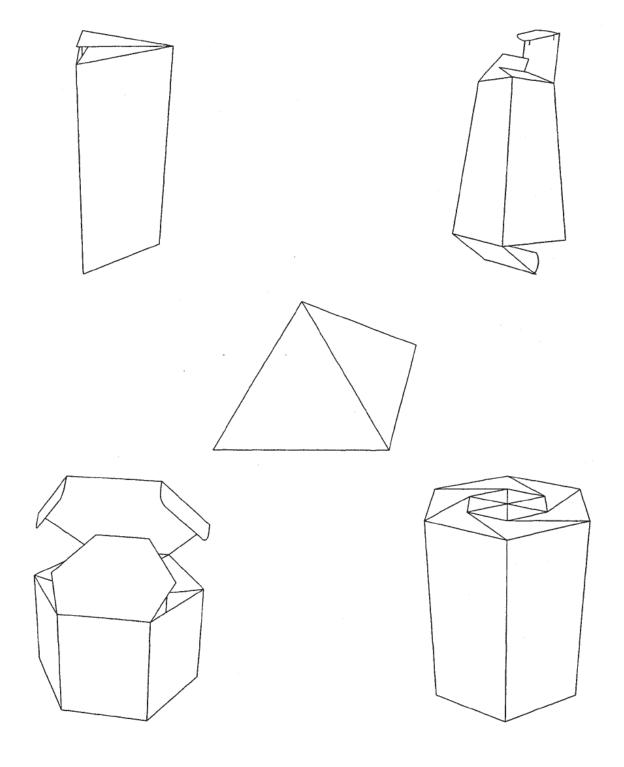




Group C: Long-seam-glued folding cartons with non-rectangular surfaces

Definition:

- A glue seam in H (height) is compulsory (tube type package)
- At least one of the surfaces of the main body of the package (a panel) is not rectangular
- The height (H), or the vertical panel, does not necessarily form an angle of 90° with the base





Group C: Long seam glued folding cartons with non rectangular surfaces																			
	BOTTOM CLOSURE						TOP CLOSURE												
	BOTTOM CLOSURE TOP CLOSURE BODY BASIS	D no closure system	다 full overlapping closure system	tolosure system with reduced flap size- 1 flap fully covering	ট full overlapping closure system with extended back panel	0 tuck in flap closure system	12 tuck in flap closure system with extended panel	음 self locking enveloppe closure system	B automatic closure (automatic bottom)	© rosette closure system	10 closure system	다 full overlapping closure system	디osure system with reduced flap size- 1 flap fully covering	ក់ full overlapping closure system with extended back panel	o tuck in flap closure system	סן tuck in flap closure system with extended panel	ភ្នា នelf locking enveloppe closure system	automatic closure (automatic bottom)	o rosette closure system
вору	10 rectangular solid 20 pyramid stub																		
Ш	30 pyramid										ı							1	
BASIS	10 triangular 20 4 cornered basis	\sqcap																+	\dashv
	30 5 cornered basis																		\dashv
ВА	40 6 cornered basis																		一
	50 8 cornered basis																		ヿ

UNPOSSIBLE COMBINATION NOT TO BE USED FOR CROSS SELECTION

For special designs of Group C see group F 30

Coding of the group C

Group Name : C

First group of 2 digits: describe the BODY of the carton Second group of 2 digits: describe the form of the BASIS of the carton Third group of 2 digits: describe the BOTTOM closure system of the carton Fourth group of 2 digits: describe the TOP closure system of the carton

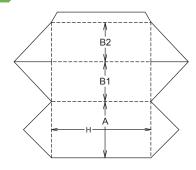


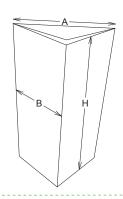
Closure systems of Group C

01	no closure system				
10	full overlapping closure system	\bigcap		AAA	M
11	closure system with reduced flap size / 1 flap fully covering	RAS		AR	A
15	full overlapping closure system with extended back panel	000	8		
20	tuck in flap closure system	AA	A		
21	tuck in flap closure system with extended back panel		10	90	\$
55	selflocking enveloppe closure system				
60	automatic closure (automatic bottom)	SHA			
90	rosette closure system	KALAL			

C10.10.10.10

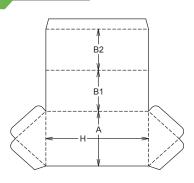
A

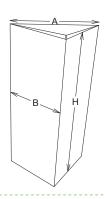




C10.10.20.20

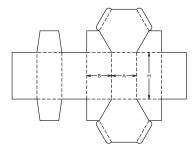
M+A

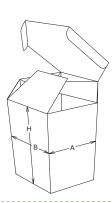




C10.40.20.20

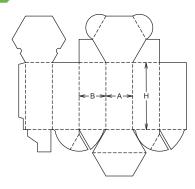
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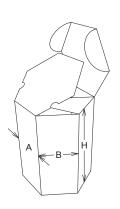




C10.40.60.20

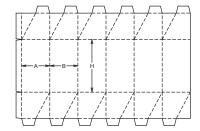
M

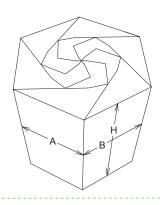




C10.40.90.90

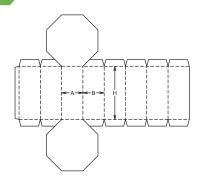
M+A





C10.50.11.11

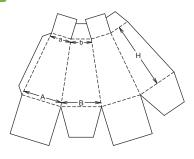
Δ

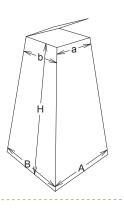




C20.20.10.10

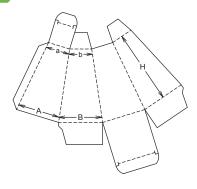
Δ





C20.20.20.20

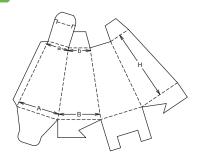
M

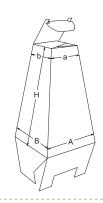




C20.20.55.20

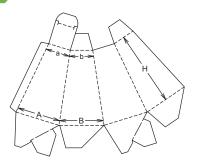
М

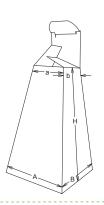




C20.20.60.20

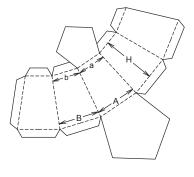
M





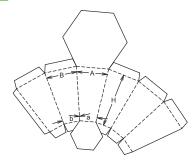
C20.30.11.11

Δ





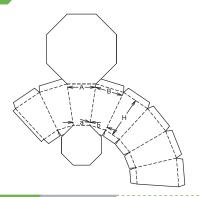
C20.40.11.11

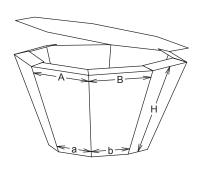




C20.50.11.11

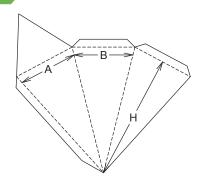
Α

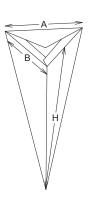




C30.10.01.11

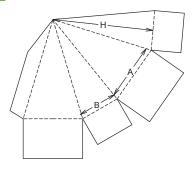
Δ

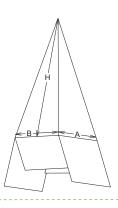




C30.20.10.01

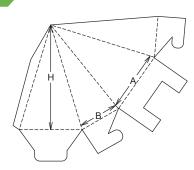
Δ

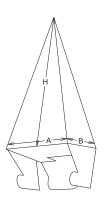




C30.20.55.01

M



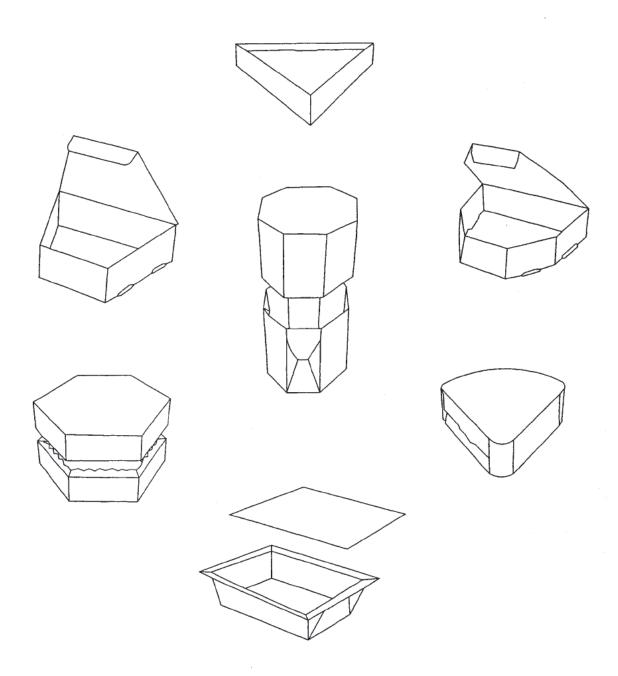


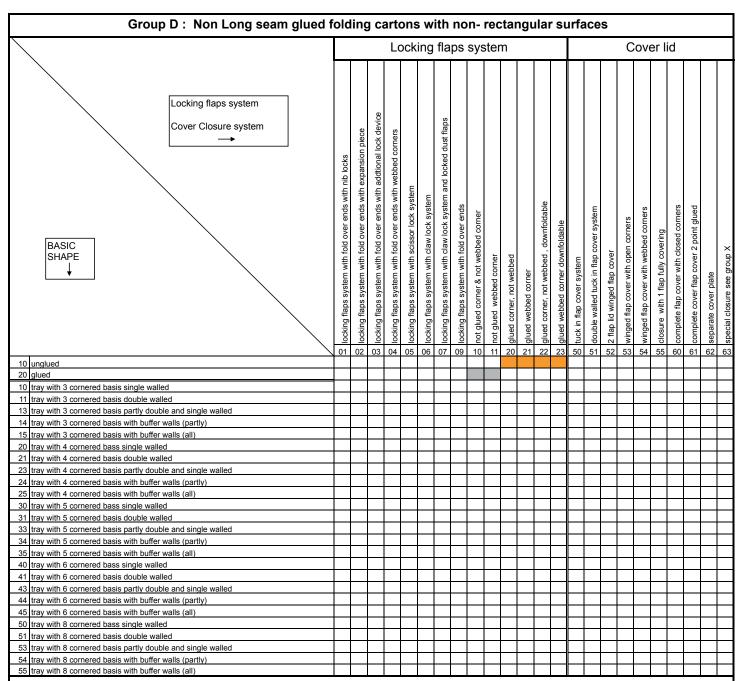


Group D: Non-long-seam-glued folding cartons with non-rectangular surfaces

Definition:

- No long-seam-gluing in H (tray type package)
- At least one of the surfaces of the main body of the package (a panel orthe base) is not rectangular
- The height (H) or the vertical panel does not necessarily form an angle of 90° with the base





UNPOSSIBLE COMBINATION

CODE COMBINATION ONLY TO BE USED ONLY TO BE USED IN EXCEPTIONAL SITUATIONS

Some designs can be used as a single tray or as a telescopic packaging system, in such cases dimension need to be adjusted between Top and Bottom tray. For special designs of Group D see group F 40

Coding of the group D

Group Name : D

First group of 2 digits: describes whether the tray is unglued or glued Second group of 2 digits: describes the form of the BASIS of the carton

Third group of 2 digits: describes the locking flaps system of the carton

ourth group of 2 digits: describes the cover system; when not applicable indicate 00



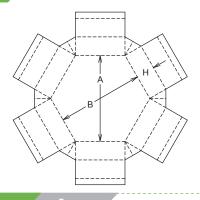
Closure systems of Group D

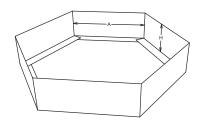
01	locking flaps system with fold over ends with nib locks		A	
02	locking flaps system with fold over ends with expansion piece			
03	locking flaps system with fold over ends with additional lock device			
04	locking flaps system with fold over ends with webbed corners			
05	locking flaps system with scissor lock system			
06	locking flaps system with claw lock system			
07	locking flaps system with claw lock system and locked dust flaps			
09	locking flaps system with fold over ends			
10	not glued corner /panel & not webbed corner			
11	not glued corner/panel webbed	A		
20	glued comer/panel , not webbed			
21	glued comer/panel -webbed	A		
22	glued comer/panel , not webbed , downfoldable	TY-		
23	glued comer/panel , webbed downfoldable	A A		
50	tuck in flap cover system	A		
51	double walled tuck in flap cover system			
52	2 flap lid winged flap cover			
53	3 winged flap cover with open corners			
54	3 winged flap cover with webbed corners			,
55	Closure with 1 flap fully covering			
60	complete flap cover with closed corners			
61	complete flap cover 2 point preglued			
62	separate cover plate	\$		



D10.41.04.00

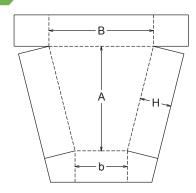
M

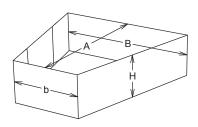




D20.20.20.00

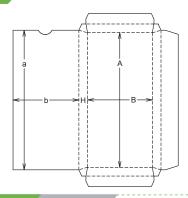
Α





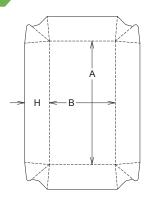
D20.20.20.50

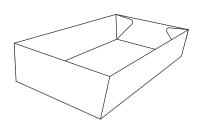
Δ





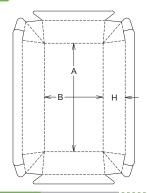
D20.20.21.00

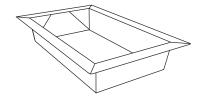




D20.20.21.62

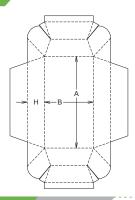
A

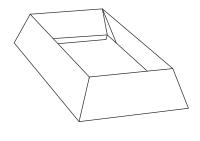




D20.21.02.00

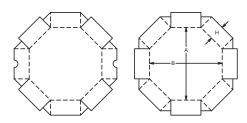
M/A

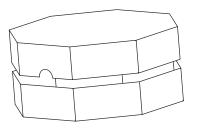




D20.50.20.00

A

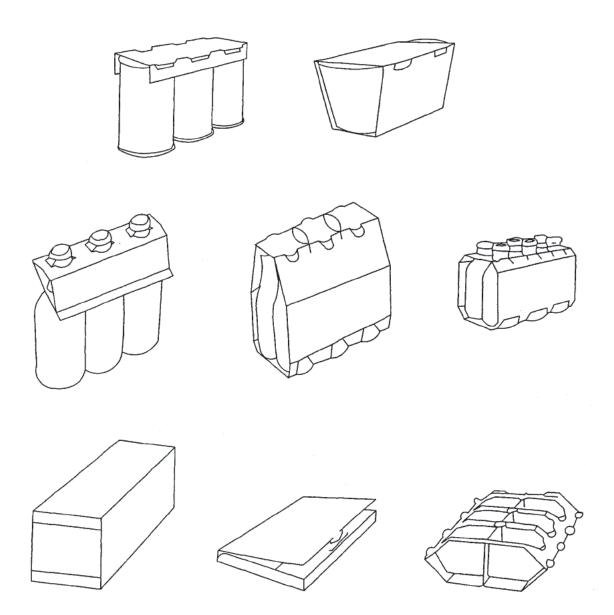




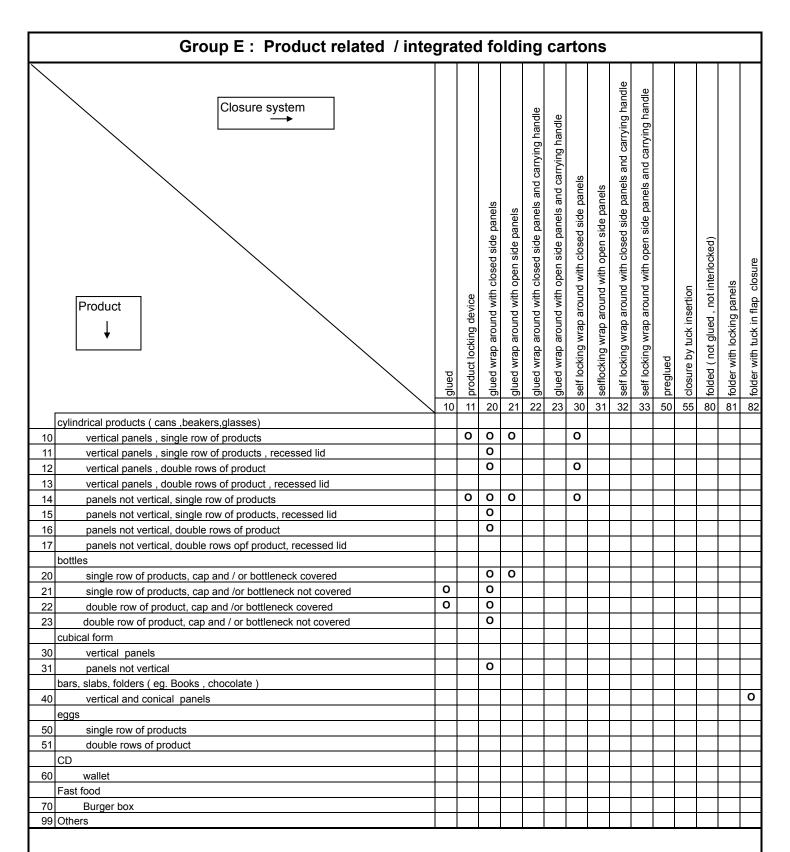
Group E: Product-related or integrated folding carton

Definition:

 Designed to work in combination with specific goods/products or primary package contents







O: illustrated in the catalog

For special designs from Group E see Group F50

Coding of the group A

Group Name : E

1st group of 2 digits: describe a range of products where the packaging has been designed for

2nd group of 2 digits: describe the closure system for the carton 3rd group of 2 digits: not applicable; 00 can be written in the code 4th group of 2 digits: not applicable, 00 can be written in the code.

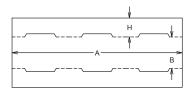
Remark

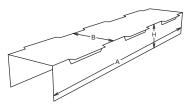
Not all properties represented in this matrix can be combined but are included in the overview since they are typical for a specific application



E10.11.00.00

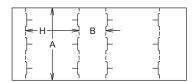
M/A

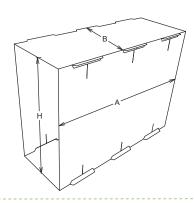




E10.20.00.00

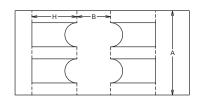
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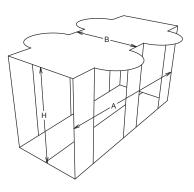




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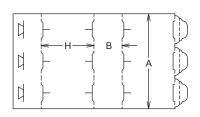
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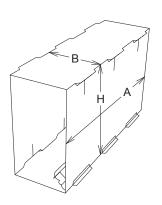




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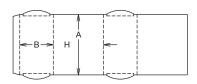
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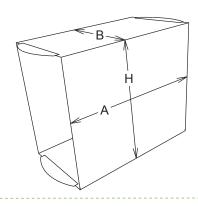




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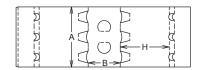
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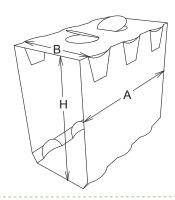




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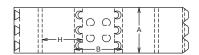
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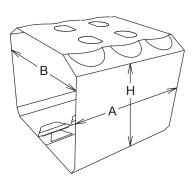




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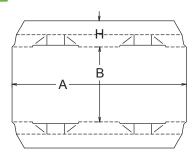
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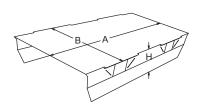




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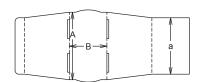
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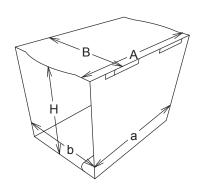




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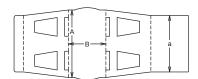
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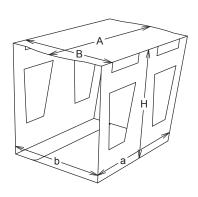




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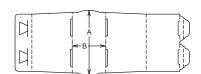
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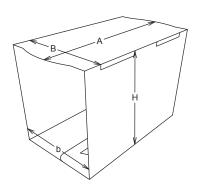




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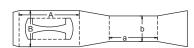
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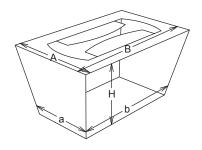




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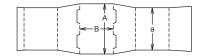
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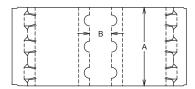
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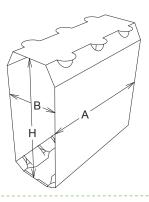




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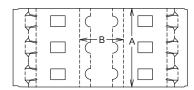
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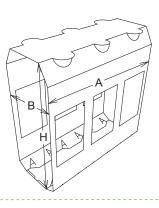




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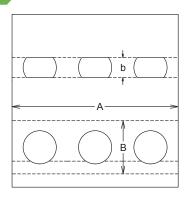
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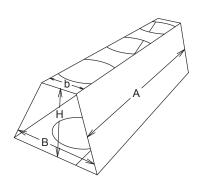




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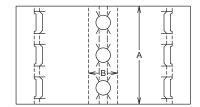
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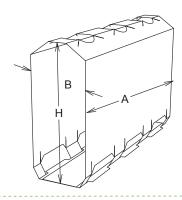




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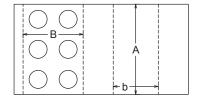
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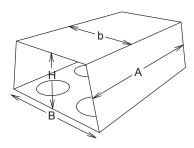




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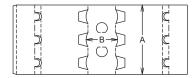
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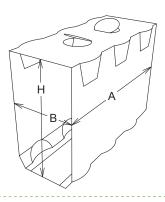




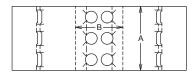
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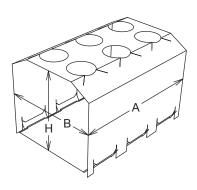
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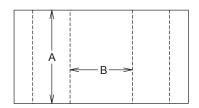
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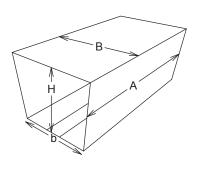




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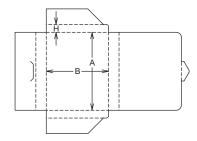
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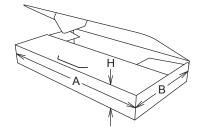




E40.82.00.00

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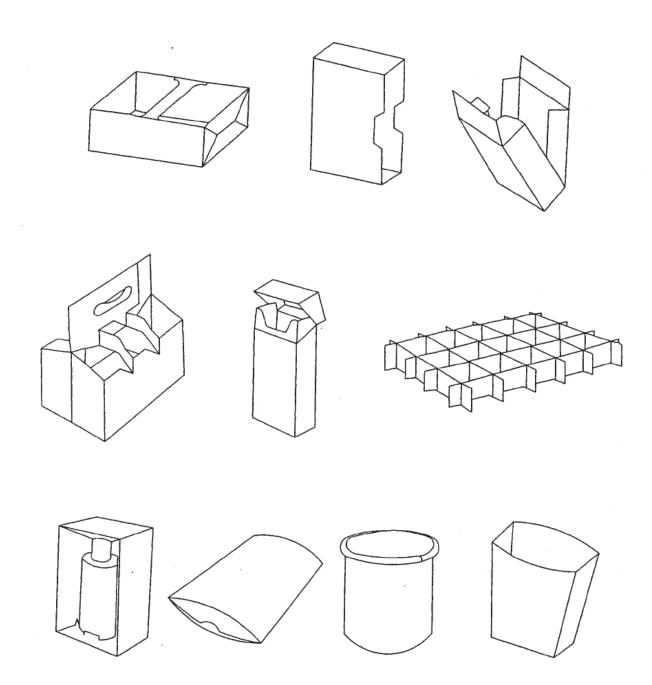




Group F: Other folding carton styles

Definition:

 This group comprises all styles of folding cartons that cannot be attributed clearly to one of the main groups A to E





	Group F: Special Designs	
	Variations on group A : long seam glued folding cartons with rectangular surfaces.	
10.10 10.11	double compartiment open - double sleeve	0
10.11	one compartiment closed	0
10.13	both compartiments closed	0
10.40	with automatic "bottom" closure on both sides (used as tray)	
10.41	vertical walls, one or more apertures	0
10.42	vertical walls, two apertures/ carrying handle	
10.45 10.46	sloping walls, one or more apertures sloping walls, two apertures / carrying handle	1
10.50	with recessed top/ bottom closure	
10.51	with flaps	0
10.80	special designs	
10.81	skillet base locking top with inner lining (reclosable opening with reduced flaps with locking device)	0
10.82	telescopic top and bottom (closures see group A): more combinations possible	0
10.83	with broken curved side edges	0
20.00	Variations on group B : Non long seam glued folding cartons with rectangular surfaces carton with 4 double walls	
20.01	Top with curved top panel	0
20.02	Top with curved top panel & conical side panels	
20.03	with sides of unequal height	$ldsymbol{oxed}$
20.30	tray with 4 point gluing	
20.33	tuck in flap with integral inset	0
20.35 20.36	rounded ends and curved top , 2 piece rounded ends and curved top	0
20.37	rounded ends	0
20.40	tuck in flap box with continious base and lid attached	
20.41	hinge back lid with glued corners	0
20.42	hinge back lid with folded corners	0
20.43	hinge back lid inside lid display	
20.50 20.51	rolling folding carton (tube from group A) without corner covers,2dust flaps	0
20.51	with 2 buffer walls	0
20.53	with 2 platforms	0
20.60	downfoldable trays 2P glued basis and 2P glued cover	0
30	Variations on group C: Long seam glued folding cartons with non rectangular faces	
30.00	triangular	
30.10	quadrangular	
30.11 30.20	side walls trapezium shaped with sealing flap underneath (beakers) hexagonal	
30.21	side walls rectangular , flaps tucked in	
30.22	side walls rectangular, flaps folded, glued with tamper evident strip	0
30.50	polygonal with hollow/bottom	
30.51	hexagonal with recessed top cover	
30.52	hexagonal with recessed top cover and automatic bottom	0
40 .01	Variations on group D: Non long seam glued folding cartons with non rectangular surfaces 3 cornered base with 3 rounded corners	0
40.01	3 cornered base with 2 rounded corners	0
40.03	3 cornered base with rounded backpanel	0
40.04	3 cornered base with rounded backpanel & 3 rounded corners	0
40.05	3 cornered base with rounded backpanel & 2 rounded corners	0
40.06	3 cornered base with rounded backpanel & 1 rounded corner	
40.10	polygonal with bouelled corpore (sketch 4 corpore)	
40.11 40.12	with bevelled corners (sketch 4 corners) with bevelled corners (sketch 8 corners)	0
40.12	with rounded and webbed corners	0
40.60	Beakers	
40.62	beaker sidewalls trapezium shaped , glued (sketch 8 corners) with securing lid	0
40.70	Burger box	
40.71	burger box	0
50.00	Variations on Group E : Product related / Integrated folding cartons Sleeves & open packaging for product display	
50.00	with all sides tucked in (bottle)	0
50.02	with all sides tucked in (bottle) & rounded sidewalls , glued (bottle)	0
50.03	with base for locking together, glued (bottle)	0
50.04	with push in for interlocking products, glued (tube)	0
50.10	carrying carton	<u> </u>
50.11	with 2 round compartiments, glued to the base (cylindrical products)	0
50.20	cubical products	
50.21	cubical products end -mounted	0



	Variations on folding cartons with flat surfaces	
60.00	with continuous base or lid, double B-sides in cut design	
60.01	glued on 2 sides with tuck in flap	0
60.02	glued on 2 sides with end flap	0
60.03	glued on 2 sides with bevelled side walls	0
60.04	glued on 2 sides with tuck in flap with security lock	
60.05	glued on 2 sides with webbed flap	
60.06	locked in on 2 sides , tuck in flap closure	0
60.07	locked in on 2 sides , end flap	0
60.10	flip-top closure	
60.11	glued on 2 sides , continuous base in one piece without shoulder	0
60.12	glued on 2 sides , continuous base in 2 pieces with shoulder	0
60.13	glued on 2 sides , continuous base in 2 pieces with long shoulder	
60.14	glued on 1 side, end flap beneath and end flap on top, intergrated shoulder on base	
60.15	glued on 1 side, end flap beneath and end flap on top, intergrated shoulder on side	0
		0
60.16	glued on 1 side, end flap beneath and hinged lid, without end flap	U
60.20	bending via perforation	
60.21	continuous base & lid, double B-sides	
60.30	carry pack with separators and handle (open)	
60.31	with 4 compartiments	0
60.32	with 6 compartiments	0
60.40	folding carton with separator	
60.41	one row	0
60.42	double row	0
60.80	remaing folding cartons with straight surfaces	
60.81	octagonal design with glued folding base and attached lid (square lid & square base purshed against each other)	0
60.82	12 cornered design with glued edges and attached tick in flap (6 cornered base and lid slotted into each other)	0
60.90	wallet	
60.91	without end flap (open)	0
60.92	with end flap (closed)	0
	with end flap secured	0
		U
	Other folding cartons with non flat surfaces (variable volumes)	
70.00	pillow pack (folding carton with curved panels)	_
70.01	with end flap completely covered	0
70.02	with dust flap & tear strip	0
70.50	container (with or without lid)	
70.51	as flat bag	0
70.52	as bag with folded basis	0
70.53	as bag with folded sides	0
70.54	as bag with folded basis and sides	0
70.60	round cup(open)	
70.61	cylindrical in 2 parts	
70.62	conical in 2 parts	0
80	Complementary packaging devices	
80.00	compartiment inlay - separately delivered	
	flat inlay	0
80.02	inlay with 2 side panels	0
80.03	inlay with 4 side panels	0
80.10	separators attached to a folding carton for product positioning - integrated in the design	
80.11	diecutted platform for 5 bottles	0
		J
80.12	discutted platform for 3 bottles	
80.13	for specific product positioning	0
80.20	compartiments / separators inserted in folding cartons (applicable to group A and F10 designs)	
	2 compartiments	0
80.22	3 compartiments	0
80.23	diagonal double compartiment	0
80.24	as uneven compartiments	0
80.30	inserts/ separators	
80.31	inserted cross partitions	0
80.40	back supports	
80.41	stud of back support	0
80.50	blister card	
80.51	single wall	0
	folder	0
	triple wall folder	0
	the group F	

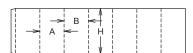
Coding of the group F

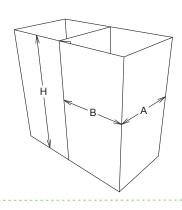
Group Name: F
The group F contains a collection of variations on design styles from the different groups.
The purpose of this group is apart from allocating a unique code to certain customized design but also to demonstrate the multi functionality which can be reached with folding cartons.
The unique code should only be used for new designs which have exactly the same features.
New codes needs to be developped for new developped designs.



F10.11.00.00

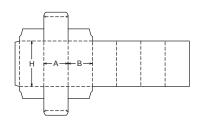
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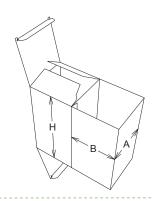




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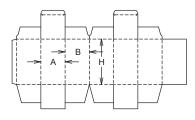
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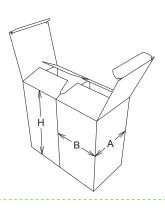




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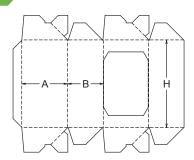
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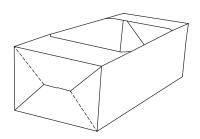




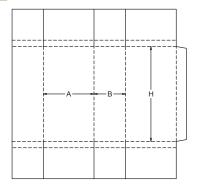
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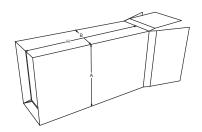
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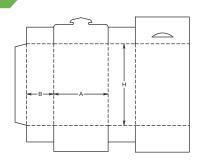


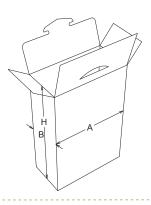
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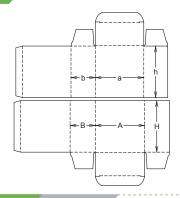


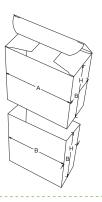
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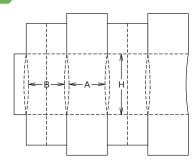
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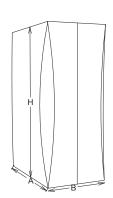




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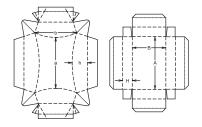
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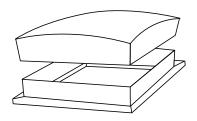




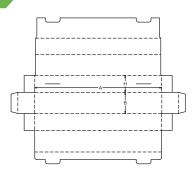


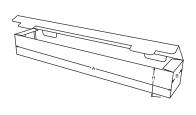
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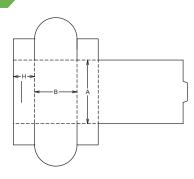
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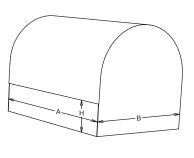




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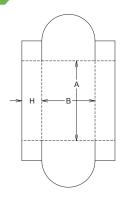
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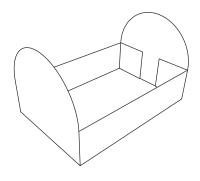




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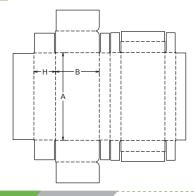
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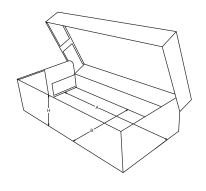




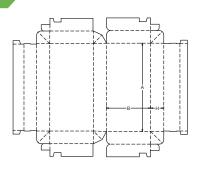


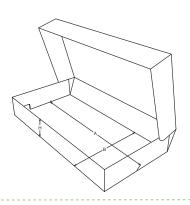
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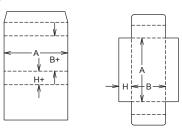
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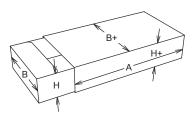




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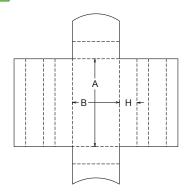


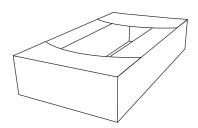




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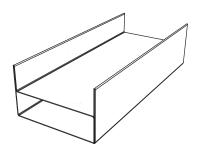
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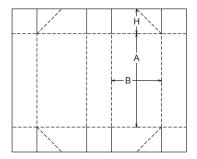
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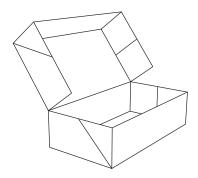




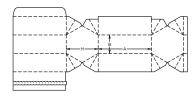
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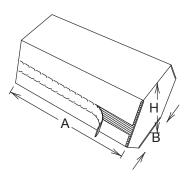
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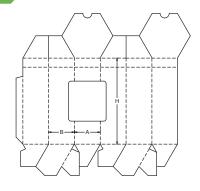


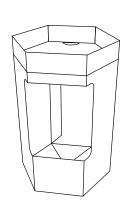
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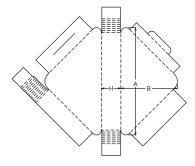


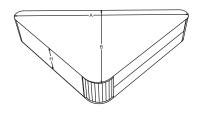
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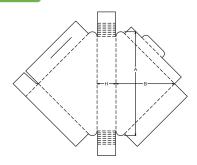


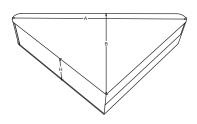
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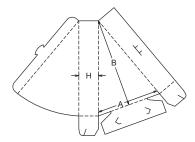


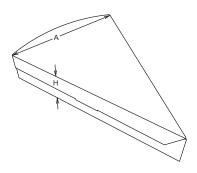
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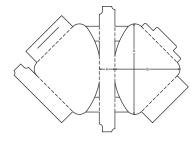


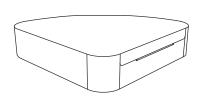
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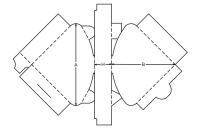


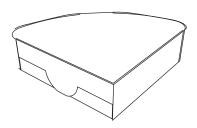
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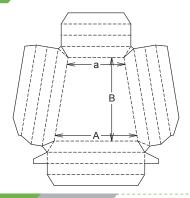
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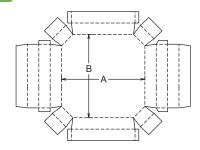
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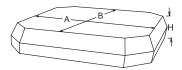




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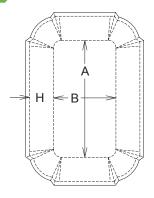
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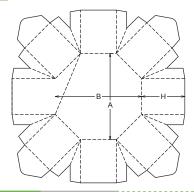
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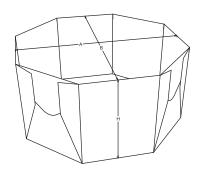
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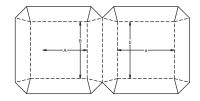
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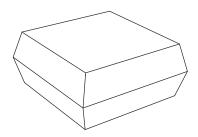




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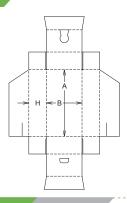
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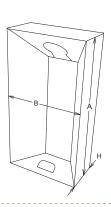




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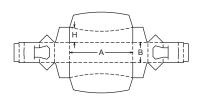
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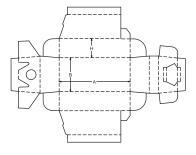
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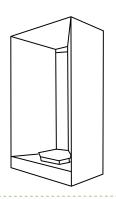
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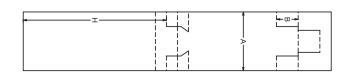


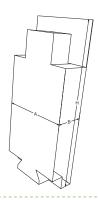
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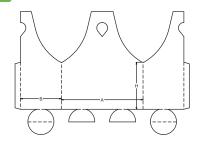


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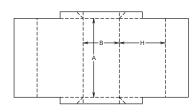


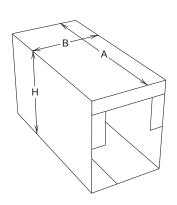
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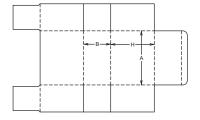


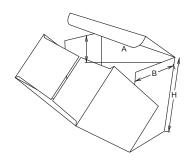
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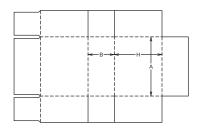


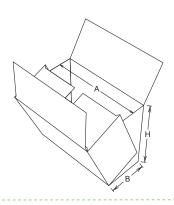
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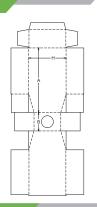


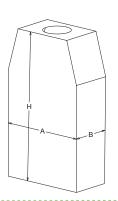
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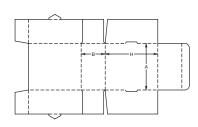


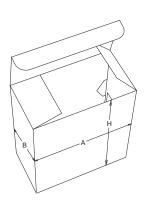
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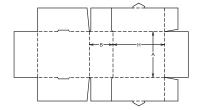


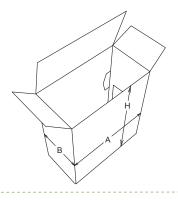
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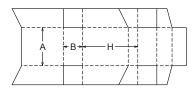
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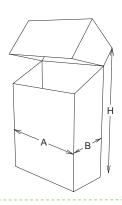




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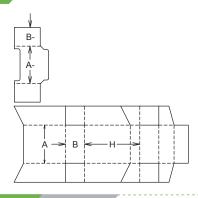
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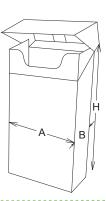




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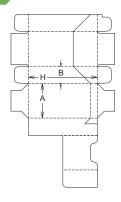
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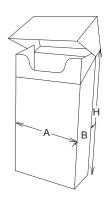




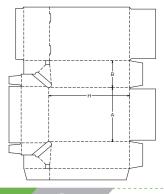
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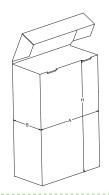
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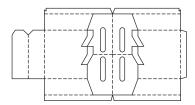
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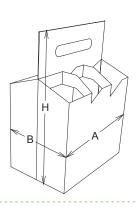




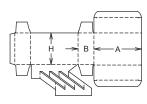
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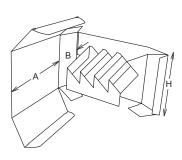






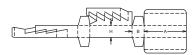
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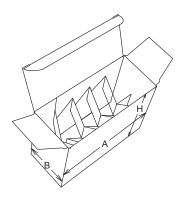




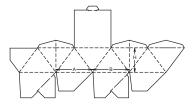
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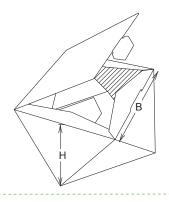
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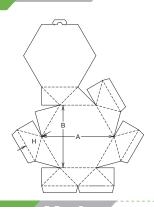


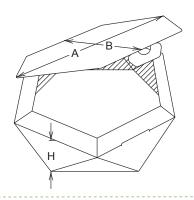
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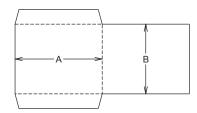
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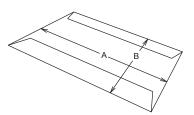




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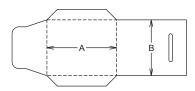
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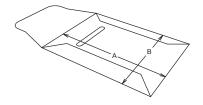




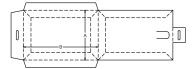
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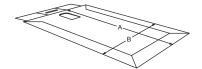
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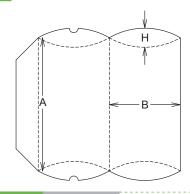
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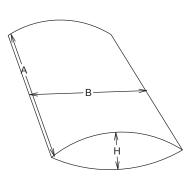




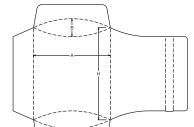
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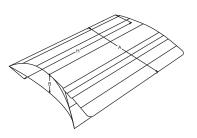
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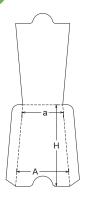
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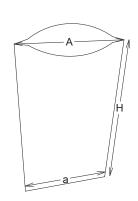




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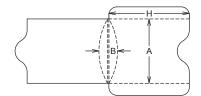


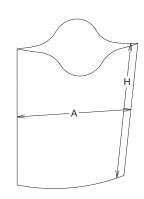




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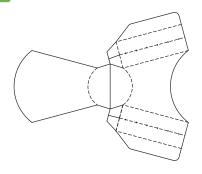
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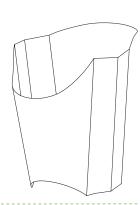




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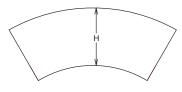
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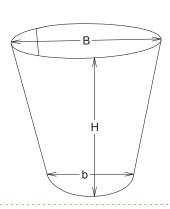


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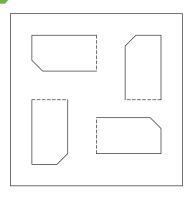


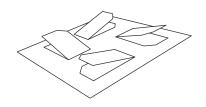




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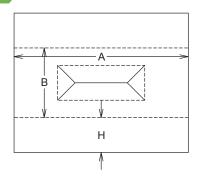
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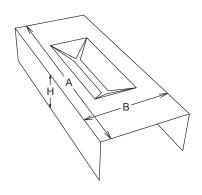




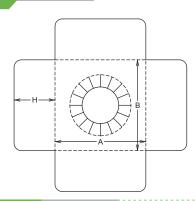
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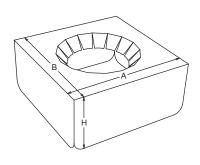
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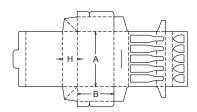
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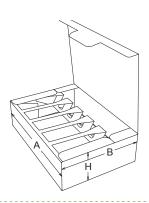




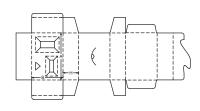
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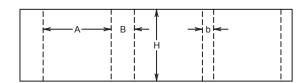


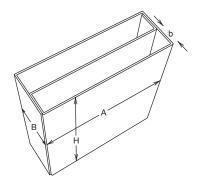
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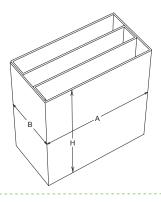
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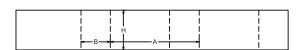


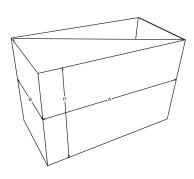
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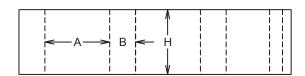


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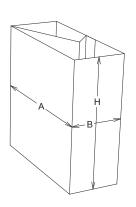




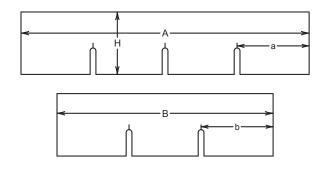
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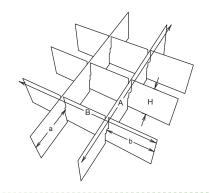


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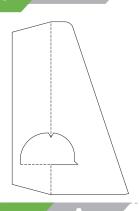


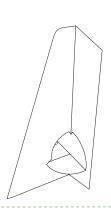
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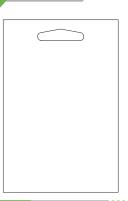


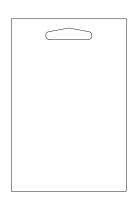
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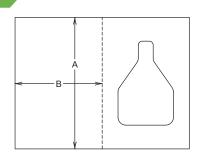


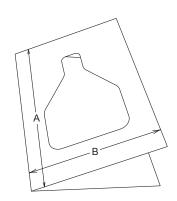
F80.51.00.00





F80.52.00.00



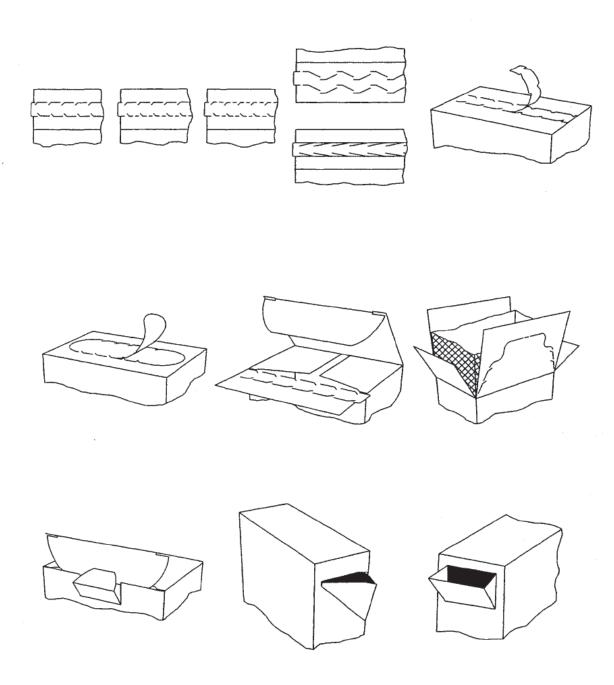


F80.53.00.00

Group X: Auxiliary devices for all groups

Definition:

 Special features/specific attributes which can be used in combination with the design styles of Groups A,B,C,D,E and (some) F





Group X: Auxiliary devices			
10	zipper flaps		
	zipper strip		
	tear strip with 2 sided scores		
	embedded reinforcing tape		
14	perforated tear out strip		
20	opening and closing flap systems		
21	tear strip in combination with locking device		
22	reclosable opening full cover with locking device		
23	reclosable opening with reduced flaps with locking device		
24	flap combinations		
25	tuck in flap in combination with full covering counterflap		
26	crash lock glued to dustflap of the tuck in closure		
27	tuck in closure with zipper strip		
28	tear off / zip open top cover over the width of the carton		
29	tear off / zip open top cover over the length of the carton		
30	openings with securing flaps		
	tuck in closure with securing counterflap tucked in		
	tuck in closure with locking lugs		
	tuck in closure with securing lock		
	closure system with male/female clawlock device (used in B40.21.00.54(34))		
	tuck in closure usable as display (previously F2031 and F 2011)		
	with tuck out glued lid (previously F2032)		
	tuck in end with tear of strips (previously F2034)		
	reclosable opening with claw lock system		
	pour out devices		
	not reclosable pour out opening		
	push through (crush) pour out system (perforated)		
	reclosable flap using the extended glue flap as basis for the opening (mono material)		
	reclosable flap using the extended glue flap as basis for the opening (mono material) tear down reclosable flap using the extended glue flap as basis for the opening (mono material) tear sidewards		
	reclosable hap using the extended gide hap as basis for the opening (mono materiar) tear sidewards		
	reclosable pour out device (nap in and out corner) reclosable pour out device to be outfolded on th side of the carton		
	reclosable opening using the outfolded dust flap		
	reclosable opening (other material) embedded in the carton		
	reclosable opening (other material) embedded in the carton, Plastic, metal, carton		
	screw cap embedded in the carton		
	devices for hanging/carrying		
	extended panel single walled with euroslot opening		
	extended panel double walled with euroslot opening		
	extended panel single walled with carrying handle opening		
	extended panel double walled with carrying handle opening		
65	extended panel single walled with round opening		
66	extended panel double walled with round opening		
70	display panels between top and bottom		
71	extended panel single (previously F1001)		
72	extended panel - double - folded over - glued (previously F1002)		
73	extended panel - double - glued together (previously F 1003)		
80	carrying handles (systems)		
81	formed of the 2 main flaps (previously F1031)		
	formed of the 2 main flaps with recessed top (previously F1032)		
83	formed of 2 side flaps , tuck in (previously F1033)		
	formed of 2 flaps, tuck in side flaps (previously F1034)		
	gable top of 2 tuck ins (previously F1035)		
	with separate handle with side wall (previously F1036)		
Coarri	g of the group X		
	Name : X oup X contains a collection of specific attributes which can be used in combination with designs		

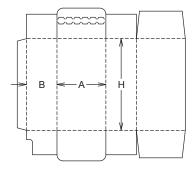
The group X contains a collection of specific attributes which can be used in combination with designs of the groups A,B,C,D and some designs of the F group.

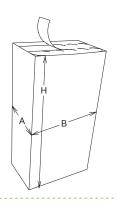
When one of the group X features is used for a packaging out of the design style groups A,B,C,D and F,

When one of the group X features is used for a packaging out of the design style groups A,B,C,D and F, the group X code number (2 digits) should be added to the design code.

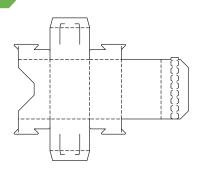
The full code for a packaging could consist of : A,B,C,D,F (group indicator) and 5 groups of double digits. Example: A.00.00.00.00.00 ==> the last 2 digits describing the group X special feature

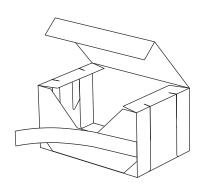




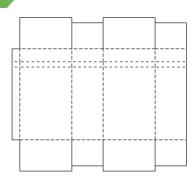


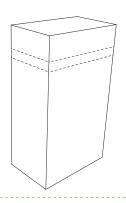
X12

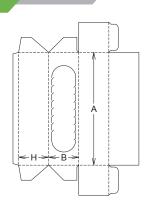


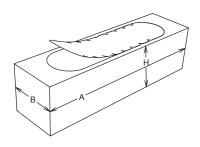


X13

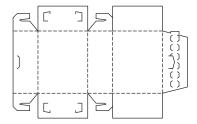


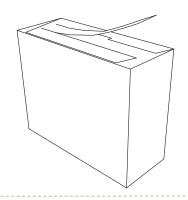




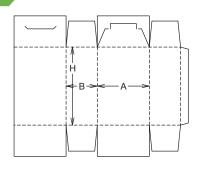


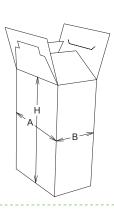




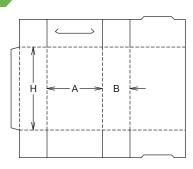


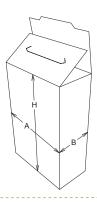
X22

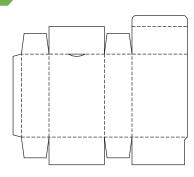


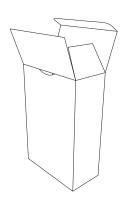


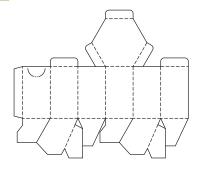
X23





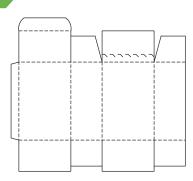


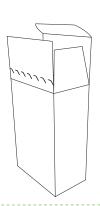




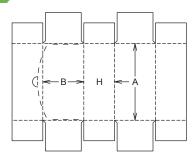


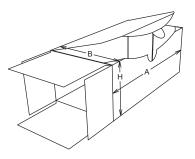
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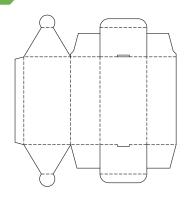


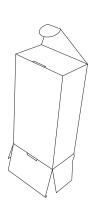


X29

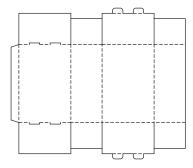


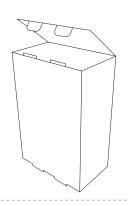




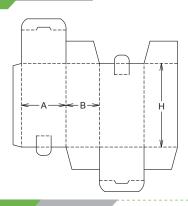


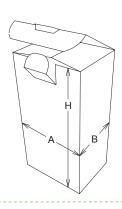




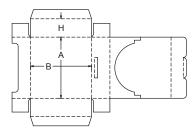


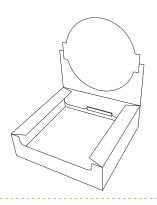
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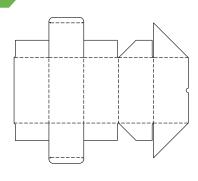


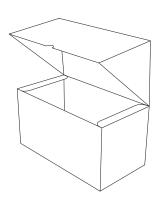


X35

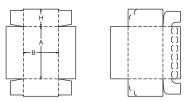


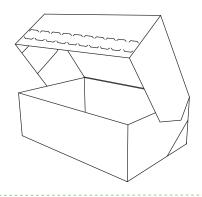




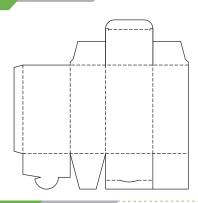






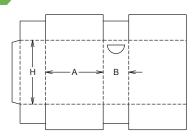


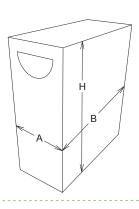
X38

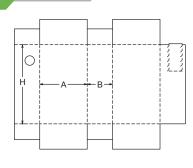


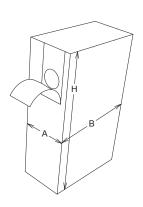


X42

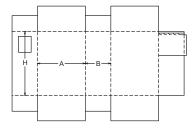


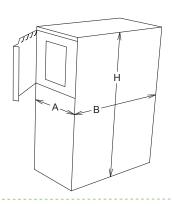




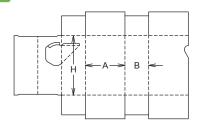


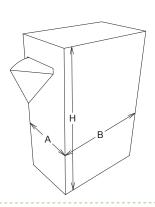




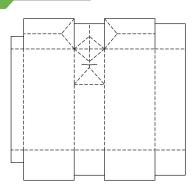


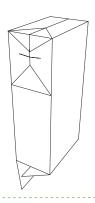
X46

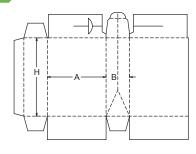


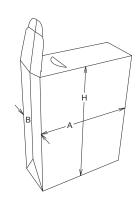


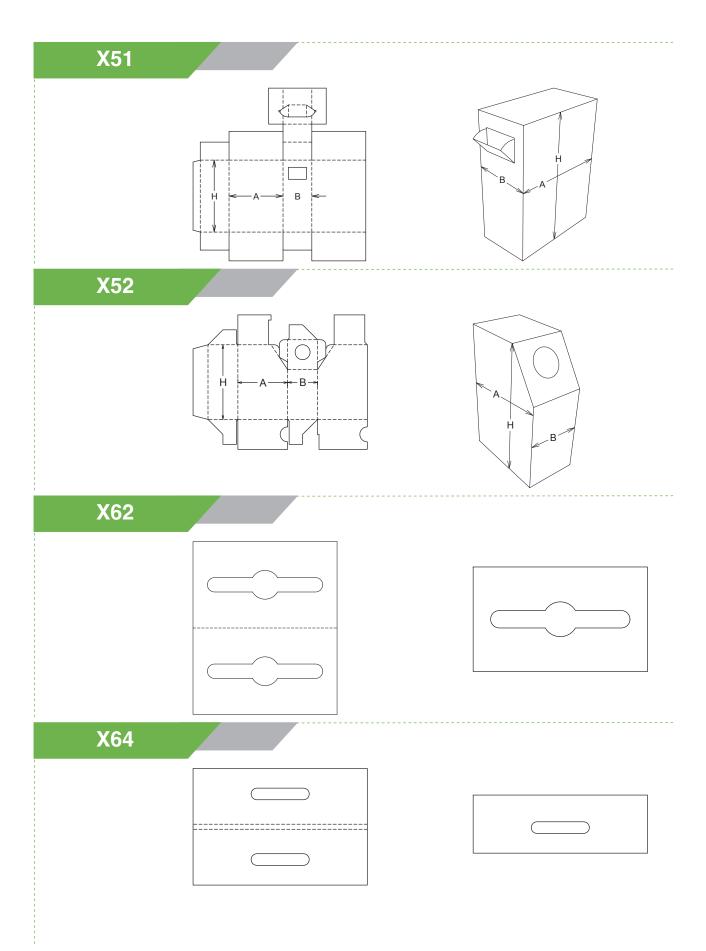
X47

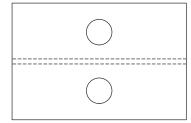


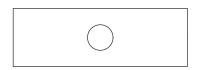




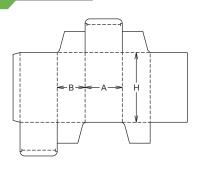


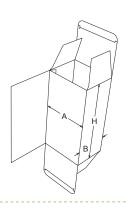




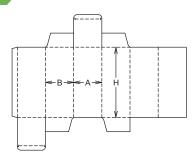


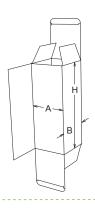
X71

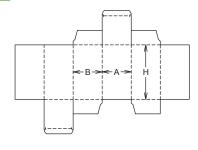


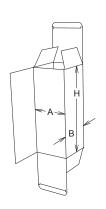


X72

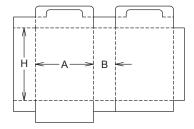


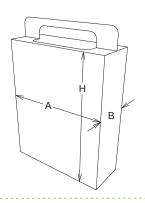




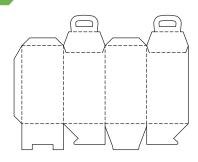


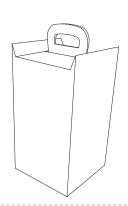




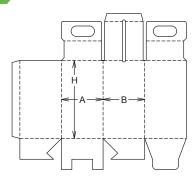


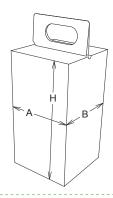
X82

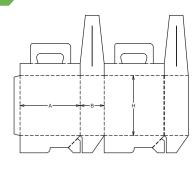


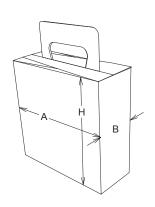


X83











X85 X86

Appendices

1. Conversion table

This conversion table contains all the design styles previously illustrated in the ECMA Code released in 1992.



Conversion table Old codes to New codes system			
	esign Style in	l	
	CMA book ('92)	New code	Alternative code
1 AC		A01.01.00.00	
2 AC		A01.10.00.03	
3 AC		A01.11.00.03	
4 A0		A01.15.00.03	
5 AC	0120	A01.20.00.03	
6 AC	0121	A01.21.00.03	
7 AC	0130	A01.30.00.03	
8 AC	0140	A01.40.00.03	
9 A0	0141	A01.41.00.03	
0 A0	0145	A01.45.00.01	
1 AC	0150	A01.50.00.01	
2 A0	0155	A01.55.00.01	
3 A0		X 38	only closure system to be coded
4 AC		A01.60.00.00	<u> </u>
5 AC		A01.70.00.00	
6 AC		A01.75.00.03	
7 A1		A10.01.03.00	
8 A1		A10.10.03.03	
9 A1		A10.20.03.03	
20 A1		A11.01.03.00	
21 A1		A11.11.03.01	
2 A2		A20.01.03.00	
23 A2		A20.20.03.01	
24 A2		A20.20.01.03	
25 A2		A20.20.01.01	
26 A2		A20.20.03.03	
27 A3		A30.01.03.00	
28 A4		A40.01.03.00	
29 A4		A40.20.03.03	
30 A4		A41.01.03.00	
31 A4		A45.01.01.00	
32 A4		A45.20.01.03	
33 A5		A50.01.01.00	
34 A5		A50.20.01.03	
35 A5		A55.01.01.00	
36 A5		A55.20.01.03	
37 A5		X38	only bottom closure to be coded
88 A5		X38	only bottom closure to be coded
89 A6		A60.01.00.00	only bottom dosure to be coded
10 A6		A60.20.00.03	+
1 A6		A60.45.00.01	+
12 A6		A61.01.01.00	+
3 A6		A61.20.01.03	
4 A7			
_		A70.01.00.00	
5 A7		A70.20.00.03	
6 A7		A70.70.00.00	
_	2001/B2101	no code	
8 B2		no code	
19 B2		no code	
0 B2		no code	
1 B3		no code	
	3101/B3301	no code	
_	3201/B3401/B3501	no code	
54 B1		B10.02.00.00	glued version : B48.20.00.00 // pregued B30.02.00.00
51B1	1011	B10.04.00.00	glued version: B48.21.00.00 // preglued B30.04.00.00
_			1 - l · · l · · - · · - · · · D 40 00 00 00 00 // - · · l · · l D 00 00 00 00
66 B1		B10.02.00.00 B11.02.00.00	glued version: B48.20.00.00 // preglued B30.02.00.00 preglued : B31.02.00.00



	Design Style in		
#	ECMA book ('92)	New code	Alternative code
			Alternative code
	B1221	D20.21.02.00	
	B1310 B1410	B32.02.00.00	glund version : P40 20 00 00
	B2001	B14.02.00.00 no code	glued version : B49.20.00.00
	B2020	B10.01.00.00	locking flaps system preglued : B30.01.00.00
	B2110	B20.01.00.00	pregiued . 650.01.00.00
	B2111	B20.04.00.00	
	B2150	B20.04.00.00	
	B2152	B20.01.00.55	
	B2201	no code	locking flaps system
	B2301	no code	locking flaps system
	B2401	no code	locking flaps system
	B2411	B20.04.00.00	
	B3001	no code	locking flaps system
	B3010	B20.05.00.00	Ŭ i
	B3101	no code	locking flaps system
	B3110	B20.06.00.00	
76	B3201	no code	locking flaps system
	B3210	B20.07.82.00	
	B3310	B15.06.00.00	
	B3353	B15.06.00.53	
	B3360	B15.06.00.60	
	B3410	B15.07.82.00	
	B3510	F20.37.00.00	
	B4010	B40.20.00.00	
	B4011	B40.21.00.00	
	B4020	B40.22.00.00	
	B4021 B4110	B40.23.00.00	
	B4150	B40.20.84.00 B40.20.82.50	
	B4153	B40.20.83.53	
	B4160	B40.20.83.60	
	B4210	B42.20.00.00	
	B4310	B42.20.83.00	
	B4410	B44.20.00.00	
94	B4411	B44.21.00.00	
95	B4420	B44.22.00.00	
96	B4421	B44.23.00.00	
	B4510	B20.08.82.00	glued version B44.20.82.00
	B4511	B44.21.82.00	
	B4520	B44.23.82.00	adapted 25/06/9
	B4521	B44.23.82.00	
	B4610	B46.20.00.00	
	B4710	B46.20.81.00	
	B4810	B48.20.00.00	
	B4910	F20.37.00.00	adapted 5/05/00
	B4950 B6020	F20.36.00.00 B40.22.00.61	adapted 5/05/09
	B6021	B40.22.00.61 B40.21.00.54	
	B6120	F20.60.00.00	
	B6121	B40.23.00.54	
	B6221	B40.21.00.54.34	
	C1010	C10.10.10.10	
	C1011	C10.10.11.11	
	C1012	C10.10.10.15	
	C1020	C10.10.20.20	
115	C1021	C10.10.20.21	
	C1055	C10.10.90.20	
117	C1110	C20.10.10.10	



	Design Style in		
#	ECMA book ('92)	New code	Alternative code
	C1120	C20.10.20.20	7.11.01.11.01.00.00
	C1155	C20.10.90.20	
120	C1211	C30.10.01.11	
121	C1220	C30.10.01.20	
122	C1255	C30.10.01.90	
123	C2110	C20.20.10.10	
124	C2120	C20.20.20.20	
125	C2155	C20.20.55.20	
	C2160	C20.20.60.20	
	C2210	C30.20.10.01	
	C2255	C30.20.55.01	
	C3010	C10.30.10.10	
	C3111	C20.30.11.11	
	C4010	C10.40.10.10	
	C4011	C10.40.11.11	
	C4020	C10.40.20.20	
	C4021	C10.40.60.21	
	C4060	C10.40.60.20	
	C4080 C4110	C10.40.90.90	
	C4110 C4180	C20.40.11.11 C20.40.11.90	
	C4220	C30.40.11.90	
	C5010	C30.40.01.20	
	C5111	C20.50.11.11	
	C5280	C30.50.01.90	
	D1010	D20.10.20.00	
	D1011	D10.10.11.00	glued version D20.10.21.00
	D1050	D20.10.20.55	gided version B25.10.21.00
	D1051	D20.13.20.63	
	D1110	D10.11.09.00	
	D1211	D10.11.01.00	
	D2010	D20.20.20.00	
150	D2050	D20.20.20.50	
151	D2051	D20.20.20.63	
152	D2111	D10.21.04.00	
	D2210	D10.21.01.00	
	D2311	D10.23.01.00	
	D3010	D20.40.20.00	
	D3050	D20.40.20.50	
	D3051	D20.40.20.63	
	D3111	D10.41.04.00	
	D3210	D10.41.01.00	
	D4010	D20.50.20.00	
	D4011	F40.62.00.00	
	D4050	D20.50.20.52	
	D4051	D20.50.20.00	alved version D00 54 00 00
	D4110	D10.51.09.00	glued version D20.51.09.00
	D5010 D5110	F40.03.00.00.22 F40.03.00.00.22	
	D6010	F40.03.00.00.22	
	D6110	F40.04.00.00.22	
	D6210	F40.02.00.00.22	
	D6310	F40.05.00.00.22	
	D7011	D20.20.21.00	
	D7111	D20.21.21.00	
	D7211	D20.20.21.62	
	D7311	F40.13.00.00	
	E1011	E10.11.00.00	
	E1020	E10.20.00.00	
	E1021	E10.21.00.00	
178	E1030	E10.30.00.00	



Design Style in # ECMA book ('92) New code Alternative code	
179 E1120 E30.10.00.00 180 E1140 E11.20.00.00 181 E1220 E12.20.00.00 182 E1330 E12.30.00.00 183 E1341 E13.30.00.00 184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
180 E1140 E11.20.00.00 181 E1220 E12.20.00.00 182 E1330 E12.30.00.00 183 E1341 E13.30.00.00 184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
181 E1220 E12.20.00.00 182 E1330 E12.30.00.00 183 E1341 E13.30.00.00 184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
182 E1330 E12.30.00.00 183 E1341 E13.30.00.00 184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
183 E1341 E13.30.00.00 184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
184 E1411 E14.11.00.00 185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
185 E1420 E14.20.00.00 186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
186 E1421 E14.21.00.00 187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
187 E1430 E14.30.00.00 188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
188 E1540 E15.20.00.00 189 E1620 E16.20.00.00	
189 E1620 E16.20.00.00	
1 400154744	
190 E1741 E17.30.00.00	
191 E2010 E20.10.00.00	
192 E2020 E20.20.00.00	
193 E2021 E20.21.00.00	
194 E2110 E21.10.00.00 195 E2120 E21.20.00.00	
197 E2220 E22.20.00.00 198 E2222 E22.22.00.00	
199 E2310 E23.10.00.00	
200 E2320 E23.20.00.00 E30.20.00.00	
201 E3020 E30.20.00.00 202 E3120 E31.20.00.00	
203 E3122 E31.22.00.00	
203 E3122 E31.22.00.00 Similar to A01.20.00.01	
205 E4080 E40.80.00.00	
205 E4080 E40.80.00.00 E40.81.00.00	
200 E4081 E40.81.00.00 E40.82.00.00	
208 E5055 E50.55.00.00	
209 E5155 E51.55.00.00	
210 F1001 X71	
211 F1002 X72	
212 F1003 X73	
213 F1011 F10.11.00.00	
214 F1012 F10.12.00.00	
215 F1013 F10.13.00.00	
216 F1021 A20.82.01.00	
217 F1022 A82.82.00.00	
218 F1023 A83.82.00.00	
219 F1031 X81	
220 F1032 X82	
221 F1033 X83	
222 F1034 X84	
223 F1035 X85	
224 F1036 X86	
225 F1037 A10.15.03.03	
226 F1041 F10.41.00.00	
227 F1042 F10.42.00.00	
228 F1045 F10.45.00.00	
229 F1046 F10.46.00.00	
230 F1051 F10.51.00.00	
231 F1081 F10.81.00.00	
232 F1082 F10.82.00.00	
233 F1083 F10.83.00.00	
234 F2001 F20.01.00.00	
235 F2002 F20.02.00.00	
236 F2003 F20.03.00.00	
237 F2004 removed	



	Design Style in	I	
#	ECMA book ('92)	New code	Alternative code
			Alternative code
	F2011	X35	
	F2021	B15.07.82.00	
	F2031	X35	
	F2032	X36	
	F2033	F20.33.00.00	
	F2034	X37	
	F2035	F20.35.00.00	
	F2041 F2042	F20.41.00.00	
		F20.42.00.00	
	F2043	F20.43.00.00	
	F2051	F20.51.00.00	
	F2052	F20.52.00.00	
	F2053	F20.53.00.00	
	F3001	C10.10.01.01	
	F3011	F30.11.00.00	
	F3021 F3022	F30.21.00.00	
	F3022 F3051	F30.22.00.00 F30.51.00.00	
	F3051	F30.51.00.00	
	F4011	F40.11.00.00	
	F4012	F40.11.00.00	
	F4061	D20.50.20.00	
	F5001	F50.01.00.00	
	F5001	F50.02.00.00	
	F5003	F50.02.00.00	
	F5004	F50.03.00.00	
	F5011	F50.11.00.00	
	F5021	F50.21.00.00	
	F6001	F60.01.00.00	
	F6002	F60.02.00.00	
	F6003	F60.03.00.00	
	F6004	F60.04.00.00	
	F6005	F60.05.00.00	
	F6006	F60.06.00.00	
	F6007	F60.07.00.00	
	F6011	F60.11.00.00	
	F6012	F60.12.00.00	
	F6013	F60.13.00.00	
	F6014	F60.14.00.00	
	F6015	F60.15.00.00	
	F6016	F60.16.00.00	
	F6021	F60.21.00.00	
	F6031	F60.31.00.00	
	F6032	F60.32.00.00	
	F6041	F60.41.00.00	
	F6042	F60.42.00.00	
	F6081	F60.81.00.00	
	F6082	F60.82.00.00	
286	F7001	F70.01.00.00	
287	F7002	F70.02.00.00	
288	F7011	F60.91.00.00	
289	F7012	F60.92.00.00	
290	F7015	F60.93.00.00	
291	F7051	F70.51.00.00	
	F7052	F70.52.00.00	
	F7053	F70.53.00.00	
	F7054	F70.54.00.00	
	F7061	F70.61.00.00	
296	F7062	F70.62.00.00	



	Design Style in		
#	ECMA book ('92)	New code	Alternative code
297	F8001	F80.01.00.00	
298	F8002	F80.02.00.00	
299	F8003	F80.03.00.00	
300	F8011	F80.11.00.00	
301	F8012	F80.12.00.00	
302	F8013	F80.13.00.00	
303	F8021	F80.21.00.00	
304	F8022	F80.22.00.00	
305	F8023	F80.23.00.00	
306	F8024	F80.24.00.00	
	F8031	F80.31.00.00	
	F8041	F80.41.00.00	
	F8051	F80.51.00.00	
	F8052	F80.52.00.00	
	F8053	F80.53.00.00	
	X1010	X11	
	X1020	X12	
	X1030	X13	
	X1040	X14	
	X2010	X21	
	X2020	X22	
	X2030	X23	
	X2041	X25	
	X2042	X26	
	X2043	X27	
	X2051	X29	
	X3010	X31	
	X3020	X32	
	X3030	X33	
	X4011	X42	
	X4021	X44	
	X4022	X45	
	X4023	X46	
	X4024	X47	
	X4025	X48	
	X4031	X51	1
	X4036	X52	1
	X5010	X62	
335	X5020	X64	



2. National Associations

Aspack (Spain)

Postal address:

Address:	Carretera del Plantio, 104.1 A
Zipcode / City:	E-28220 Majadahonda-Madrid
Country:	Spain

Contact Information:

Email	aspack@aspack.es
Phone:	+34 - 91 - 307 74 44
Fax:	+34 - 91 - 307 76 08
Website:	www.aspack.es

Assografici Gifasp (Italy)

Postal address:

Address:	Piazza Conciliazione 1
Zipcode / City:	I-20123 Milano MI
Country:	Italy

Contact Information:

Email	assografici@assografici.it
Phone:	+39 - 02 - 49 81 051
Fax:	+39 - 02 - 48 16 947
Website:	www.assografici.it

BPIF Cartons (United Kingdom)

Postal address:

Address:	142 Thomas Lane
Zipcode / City:	WF2 7RE Wakefield, Yorkshire
Country:	United Kingdom

Email	chris.serlby.bpif.org.uk
Phone:	+44 - 1924 - 203 331
Fax:	+44 - 1924 - 290 092
Website:	www.bpif.org.uk



ECMABEL/FETRA (Belgium)

Postal address:

Address:	715, Chaussée de Waterloo B. 25a
Zipcode / City:	B-1180 Brussels
Country:	Belgium

Contact Information:

Email	jan.cardon@ecmabel.be
Phone:	+32 - 2 - 343 6 474
Fax:	+32 - 2 - 344 86 61
Website:	www.ecma.org / www.fetra.be

ECMA Nederland (The Netherlands)

Postal address:

Address:	P.O. Box 85612
Zipcode / City:	NL-2508 CH The Hague
Country:	The Netherlands

Contact Information:

Email	mail@ecma.org
Phone:	+31-70 312 39 11
Fax:	+31-70 363 63 48
Website:	www.ecma.org

Fachverband Faltschachtel Industrie e.V. (Germany)

Postal address:

Address:	Lyoner Straße 14
Zipcode / City:	D-60528 Frankfurt am Main
Country:	Germany

Email	info@ffi.de
Phone:	+49 - 69 - 89 01 2-0
Fax:	+49 - 69 - 89 01 2-2 22
Website:	www.ffi.de



Fédération Française du Cartonnage (France)

Postal address:

Address:	4/6 Rue Borromée
Zipcode / City:	F-75015 Paris
Country:	France

Contact Information:

Email	contact@federation-cartonnage.org
Phone:	+33 - 1 - 45 44 13 37
Fax:	+33 - 1 - 45 48 44 74
Website:	www.federation-cartonnage.org

KASAD (Turkey)

Postal adress:

Address:	Doğu Sanayi Sitesi Yönetim Binası 3. Kat Yenibosna
Zipcode / City:	TR-34197 İstanbul
Country:	Turkey

Contact Information:

Email	kasad@kasad.org
Phone:	+90 - 212 - 451 47 57
Fax:	+90 - 212 - 771 46 26
Website:	www.kasad.org

Emballageindustrien (Denmark)

Postal address:

Address:	Nørre Voldgade 48,1
Zipcode / City:	DK-1358 Copenhagen K
Country:	Denmark

Email	info@emballageindustrien.dk
Phone:	+45 - 33 - 91 38 00
Fax:	+45 - 33 - 91 96 01
Website:	www.emballageindustrien.dk



Romanian Packaging Association (Romania)

Postal address:

Calea 13 Septiembrie 55-57, Bi 57, Sc. C, Ap. 43, Sector 5
RO-050712 Bucuresti
Romania

Contact Information:

Email	
Phone:	+40-744 39 10 77
Fax:	+40- 269 511 017
Website:	www.apra.ro

Svenska Kartongförpackningsföreningen (Sweden)

Postal address:

Address:	Box 404
Zipcode / City:	SE-401 26 Gothenburg
Country:	Sweden

Contact Information:

Email	info@grafiska.se
Phone:	+46 - 316 294 23
Fax:	+46 - 318 027 54
Website:	www.grafiska.se

Swisscarton(Switzerland)

Postal address:

Address:	Bergstrasse 110 (or Postfach 134)
Zipcode / City:	CH-8030 Zürich
Country:	Switzerland

Email	info@swisscarton.ch
Phone:	+41 - 44- 266 99 32
Fax:	+41 - 1 - 266 99 49
Website:	www.swisscarton.ch



SYBA Packaging Association (Czech Republic)

Postal address:

Address:	Lipova 15
Zipcode / City:	CZ-120 00 Prague 2
Country:	Czech Republic

Contact Information:

Email	syba@syba.cz
Phone:	+420 - 224 - 919 529
Fax:	+420 - 224 - 919 591
Website:	www.syba.cz

Verband der Faltschachtelindustrie (Austria)

Postal address:

Address:	Brücknerstrasse 8
Zipcode / City:	A-1041 Wien
Country:	Austria

Contact Information:

Email	ppv@ppv.at
Phone:	+43 - 1 - 505 53 82-0
Fax:	+43 - 1 - 505 90 18
Website:	www.ppv.at

Verband Schweizer Druckindustrie (VSD) (Switzerland) Vereinigung Kartonverpackung Schweiz

Postal address:

Address:	Schosshaldenstrasse 20
Zipcode / City:	CH-3006 Bern
Country:	Switzerland

Email	office@vsd.ch
Phone:	+41 - 31 - 351 15 11
Fax:	+41 - 31 - 352 37 38
Website:	www.druckindustrie.ch



3. About ECMA

About ECMA

Founded in 1960 to promote the interests of one of the most diverse sectors of the packaging industry, the European Carton Makers Association is today the established forum and officially-approved umbrella organisation for national carton associations throughout Europe.

With its seat in The Hague, The Netherlands, and its second office in Brussels, ECMA represents 500 carton producers in nearly all countries in the European Economic Area. Around 70% of the total carton market volume in Europe, and a current workforce of about 50.000 people, are represented in ECMA.

ECMA works to fulfil its mission for the benefit of member companies in a variety of functions.

Vision & Mission

ECMA is recognised as the association securing the sustainable development of the whole European folding carton industry.

It is ECMA's mission to develop, manage and maintain networking and information platforms and to represent the interests of the entire European folding carton industry.

Compliance statement

The ECMA Antitrust Guidelines are designed to ensure ECMA meetings' compliance with the legal framework as set out in art. 81 of the EC Treaty, which prohibits all agreements between undertakings, decisions by associations of undertakings and concerted practices which may affect trade between member states, and which have as their object of effect the prevention, restriction or distortion of competition within the common market.

Individual company data will, under no circumstances, be made public during the meetings. The purpose of discussions during ECMA meetings is not to identify market-related information regarding a particular company, but to identify general trends and market developments for the benefit of all those concerned.



Scope and function

ECMA is active for the benefit of member companies in a variety of functions, and in a number of arenas.

- Collect, interpret and distribute statistical and other market information
 ECMA serves the industry with a Statistical Yearbook, a quarterly newsletter, 'ECMA Carton News', and the ECMA website.
- Develop and promote industry standards
 - Terms and Conditions of Sale for European carton manufacturers

The Terms and Conditions are designed to provide a level playing field for every carton maker involved in pan-European transactions. In order to give leadership and guidance in the best use of the e-commerce tool, ECMA has adopted the Good Trading Practices in Electronic Bidding Processes and Reverse Auctions (GTP), a set of recommendations designed to ensure fair trading practices and avoid misuse.

 The ECMA Code of Folding Carton Design Styles, accepted as a CEN reference standard in 1998, serves as a reference standard that creates clarity and understanding between buyers and sellers of cartons.

- Braille Guidelines

This code of practice for the standardised fabrication of Braille on folding cartons is designed to ensure the integrity and security of the Braille content. It contains established rules which form an easily-comprehensible guide to the technical implementation of Braille on folding cartons, and offers guidelines for the production sequence, from the creation of the artwork files to the delivery of the finished folding cartons.



Organisational structure

ECMA is run by the Executive Committee, which reports to the Delegates' Assembly, in which the national member associations, as well as the members of the Strategy Committee (and thus indirectly the carton manufacturers themselves) are represented.

The Strategy Committee reflects the industry's strategic interests, and serves the specific needs of pan-European carton suppliers.

Activity-specific committees support the work of the association. Suppliers to the industry – board mills, press manufacturers, ink manufacturers, software suppliers, etc – are 'Associated Members' of ECMA. A number of companies in other parts of the world are 'Overseas Members' of ECMA, enjoying its information exchange network and attendance at ECMA events.

ECMA's President, Vice-President and Executive Committee are elected for a three- year term in the Delegates' Assembly, with equal votes coming from the National Associations and the Strategy Committee.

ECMA Forums are platforms where like-minded ECMA members can discuss segment-specific issues of general interest, increase their understanding of market requirements, and identify best practices. Currently, four forums are active: the Pharma Forum, the Tobacco Forum, SME Forum and the Nation Association Directors Forum.

While the Secretariat in The Hague, run by the Secretary General is focused on the general management of the association, ECMA's Executive Director situated in the association's Brussels office focuses on industrial issues, pan-European industrial issues as well as public affairs.

Contact address

European Carton Makers Association, Secretariat P.O. Box 85612 2508 CH The Hague The Netherlands

Tel: +31 (0) 70 312 39 11 Fax: +31 (0) 70 363 63 48 e-mial:mail@ecma.org web: www.ecma.org



4. About the Project Team

About the ECMA Code Book Project Team

The project team was formed with representatives from the carton makers industry and its European industry association, ECMA.

ECMA commissioned L.A. Consulting in Belgium to lead the project to completely revise, and deliver in digital format, the ECMA Code. Leading companies in the industry supported this ambitious initiative by giving the services of their experts.

ESKO Artwork delivered support in the development of the design drawings and the creation of the 3D folding sequences, while FRANKIEZAFE took care of the interface design.

Participants in the ECMA codes working group were:

- Mr. Anckaert Ludwig, L.A. Consulting
- Mr. Bertels Jos, Van Genechten Packaging
- Mr. Cardon Jan, ECMA
- Mr. Hagenaars Rinus, Nampak Cartons
- Mr. Held Waldemar, A&R Carton
- Mr. Lejeune Jules H.M., ECMA Secretariat
- Mr. Luten Arend Jan, Nampak Cartons
- Mrs. Maartense Josien, Nampak Cartons
- Mr. Macaré Marc, ECMA Secretariat
- Mr. Sieber Helmut, Edelmann
- Mr. Verlinden Geert, Van Genechten Packaging
- Mr. Vermeulen Gert, Van Genechten Packaging



Consultancy, management and execution

L.A. Consulting BVBA is a privately-held company whose mission is to provide high-level services to the (corrugated) packaging industry, customers of this industry, and financial companies in terms of consultancy, management and execution, to create long-term vision, clear strategies, better competitiveness, better operational efficiency, and an improved bottom line.

L.A. Consulting acts as a third party and guarantees full objectivity, independence, impartiality, and confidentiality.

Many years of field experience and strategic partnerships with selected industry experts have enabled L.A. Consulting's expertise to cover the entire value chain.

L.A. Consulting is a preferred and unique partner for its customers. It offers in-depth technical knowledge of the packaging design, manufacturing and printing processes, standards and normalisation, regulatory and environmental aspects, manufacturing excellence standards and best practice, productivity benchmarks, and strategies for business turn-around, growth and development.

Ecological responsibility and sustainable development are illustrated in the solutions provided by L.A. Consulting, and sensitivity to these issues is high on the company's agenda.

Having operated in the international arena in more than 25 countries, it is clear that ethical values are a cornerstone of L.A. Consulting's vision and mission, as its customers testify. They span packaging producers, financial institutes and investment companies, packaging federations and associations, packaging users and consumers, professional institutes, and organisations related to the European Commission.

For more information about L.A. Consulting BVBA visit www.laconsulting.be.

Contact:

L.A. Consulting BVBA Hoonakkerdreef 1 8791 Beveren-Leie (Waregem) Belgium

Tel: +32 475 54 51 54 Fax: +32 56 722720

e-mail: info@laconsulting.be





For the revision of the ECMA Code of Folding Carton Design Styles, the Artios CAD structural design software from ESKO Artwork was used to create both accurate 'flats' and interactive 3D-models with animated folding sequences.

About EskoArtwork

EskoArtwork is a global supplier and integrator of innovative solutions for packaging, commercial printing and professional publishing. Its products and services help customers raise productivity, reduce time-to-market, lower costs and expand business.

EskoArtwork is the worldwide market leader with pre-production and collaboration software for packaging buyers, designers and manufacturers. Its portfolio of software products integrates graphic, structural and process management functions for packaging, label, sign and display applications. The wide range of CDI computer-to-plate imagers offers the highest quality and productivity for digital flexo platemaking. Kongsberg flexible cutting & creasing and short-run converting tables complete the portfolio for the packaging, label, sign and display industries.

EskoArtwork also provides a range of workflow solutions for the commercial printing and publishing market, as well as the Enfocus suite of PDF tools for graphic designers and print production professionals.

In addition, EskoArtwork offers its customers a portfolio of application support and consultancy services.

EskoArtwork employs around 900 people worldwide. Its global sales and support organization covers Europe, the Americas, Asia Pacific and Japan, and is completed by a network of distribution partners in more than 40 countries.

EskoArtwork is headquartered in Gent, Belgium, and has R&D and manufacturing facilities in 5 European countries in the United States and in India. The consolidated full year revenue for 2007 amounted to EUR 170 million, with an EBITDA of EUR 30 million.

www.esko.com





François Zajega

François Zajéga is an experienced skilled front-end developer who combines highly- developed internet skills with a sense of appropriate design.

Before starting his own company in 2008, he was the managing partner in Arjuna Productions - an innovative multimedia and internet communications company. Here, he was responsible for major projects for FEFCO, the European Federation of Corrugated Board Manufacturers, which have given him a good understanding of, and familiarity with the needs of the broader packaging industry.

François Zajéga Parvis de Saint-Gilles, 31 1060 Bruxelles BELGIUM

VAT: 866 913 051

Email: info@frankiezafe.net Mob: +32 (0)484 26 39 17