TECHNICAL SPECIFICATION











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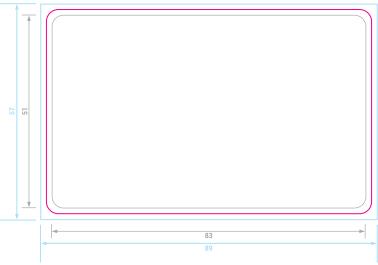
CHAPTER 1

CARDS SHAPES AND DIMENSIONS



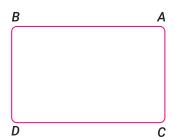


1.1 MODEL 00 (Regular)



Example of front and back



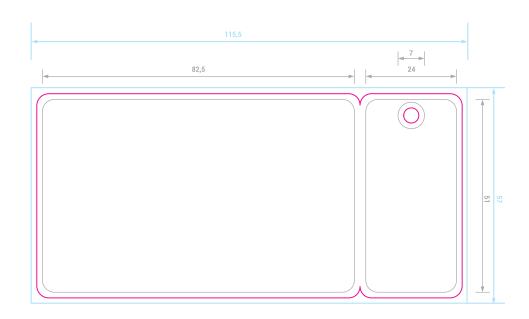


DIMENSION

CARD DII	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
					Safe zone

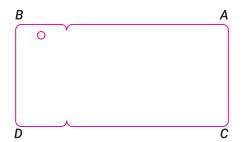


1.2.1 **Model 01**



Example of front and back



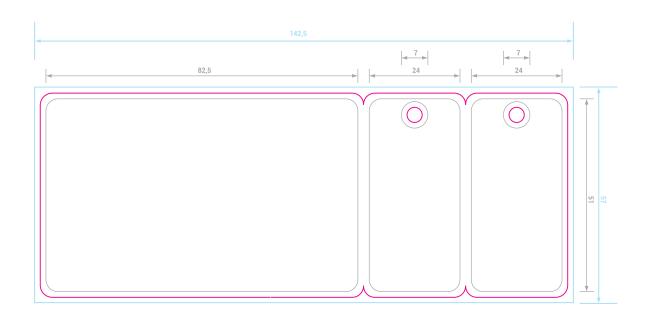


DIMENSION

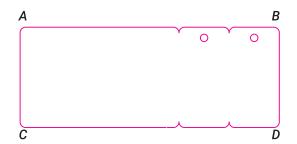
CARD DI	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
112.5 mm	54 mm	115.5 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
					Safe zone

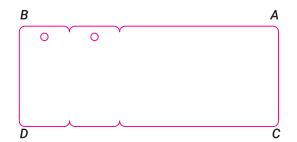


1.2.2 **Model 02**



Example of front and back



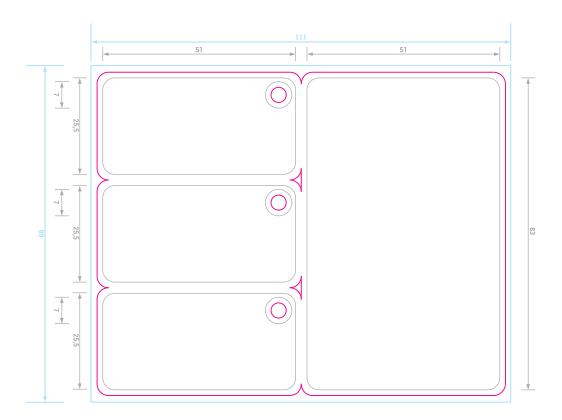


DIMENSION

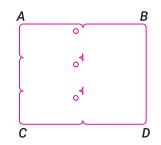
CARD DI	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
139.5 mm	54 mm	142.5 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
	Safe zone				

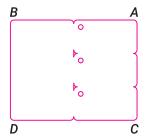


1.2.3 **Model 05**



Example of front and back



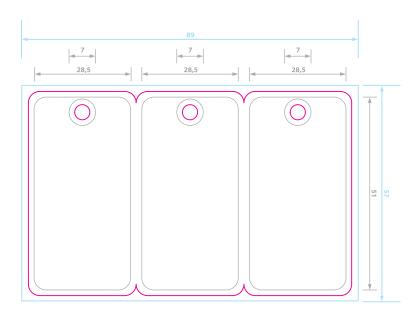


DIMENSION

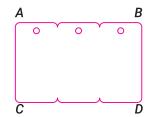
CARD DI	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
108 mm	86 mm	111 mm	89 mm	3.18 mm	1.5 mm from the edge to the outside
					Safe zone

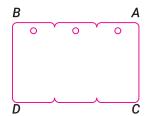


1.2.4 **Model 06**



Example of front and back



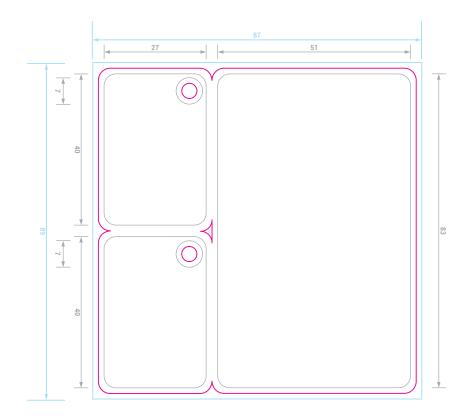


DIMENSION

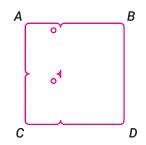
CARD DII	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
					Safe zone

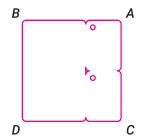


1.2.5 **Model 07**



Example of front and back



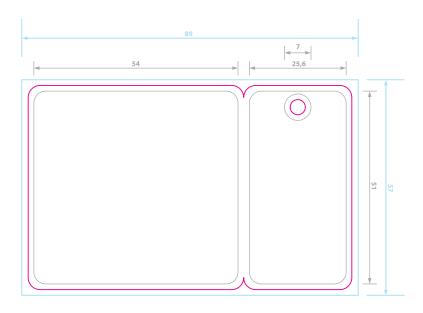


DIMENSION

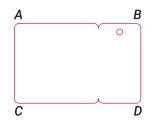
CARD DI	MENSION	DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
84 mm	86 mm	87 mm	89 mm	3.18 mm	1.5 mm from the edge to the outside
					Safe zone

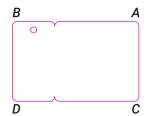


1.2.6 **Model 10**



Example of front and back



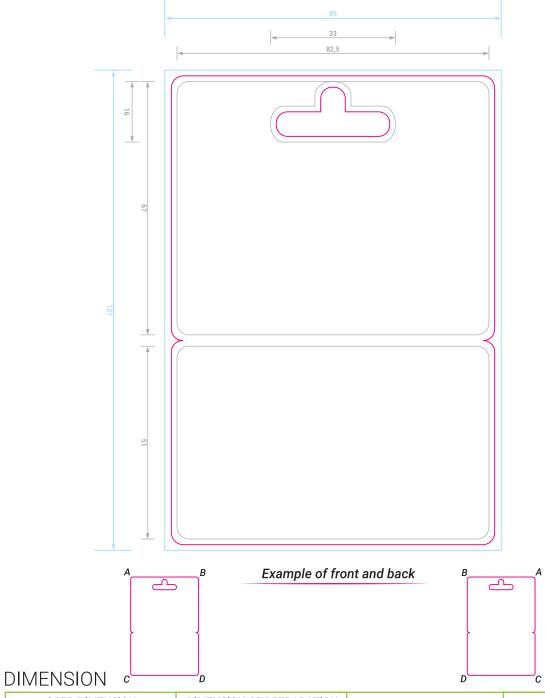


CARD DI	MENSION	DIMENSION OF	PREPARATION		
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
				Hole diameter	Safe zone
				4 mm	1.5 mm from the edge to the inside



1.3 CUSTOM SHAPES

1.3.1 **Model 04**

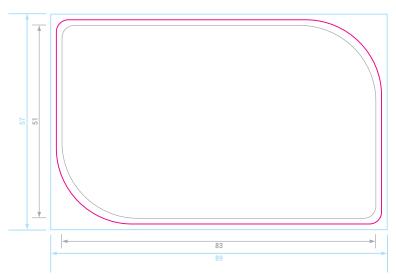


	/I N ~				<u> </u>
CARD DIMENSION		DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
86 mm	124 mm	89 mm	127 mm	3.18 mm	1.5 mm from the edge to the outside
	Safe zone				

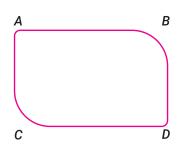


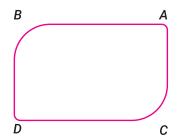
1.3 CUSTOM SHAPES

1.3.2 **Model 08**



Example of front and back



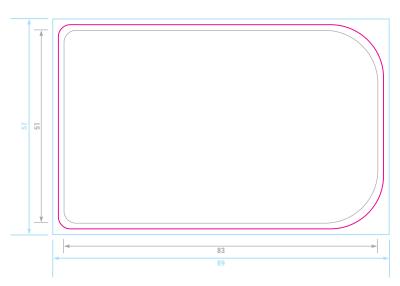


CARD DI	MENSION	DIMENSION OF	PREPARATION		
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
				Radius of larger angles	Safe zone
				20 mm	1.5 mm from the edge to the inside

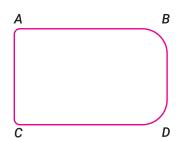


1.3 CUSTOM SHAPES

1.3.3 **Model 09**



Example of front and back



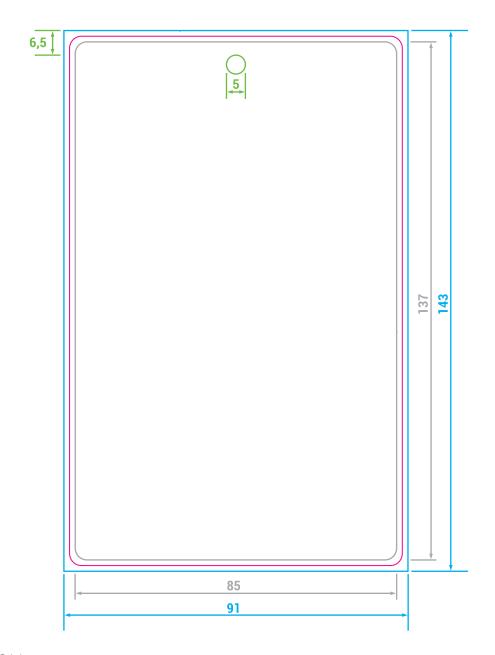


CARD DI	MENSION	DIMENSION OF	PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed	
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside	
				Radius of larger angles	Safe zone	
				14 mm	1.5 mm from the edge to the inside	



1.4 XXL CARD

1.4.1 Round hole

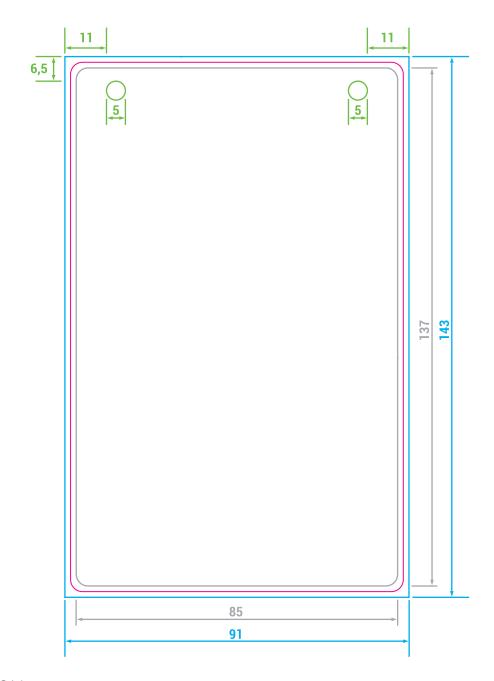


CARD DII	MENSION	DIMENSION OF	PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed	
88 mm	140 mm	91 mm	143 mm	3.18 mm	1.5 mm from the edge to the outside	
				Hole diameter	Safe zone	
				5 mm	1.5 mm from the edge to the inside	



1.4 XXL CARD

1.4.2 Two round hole

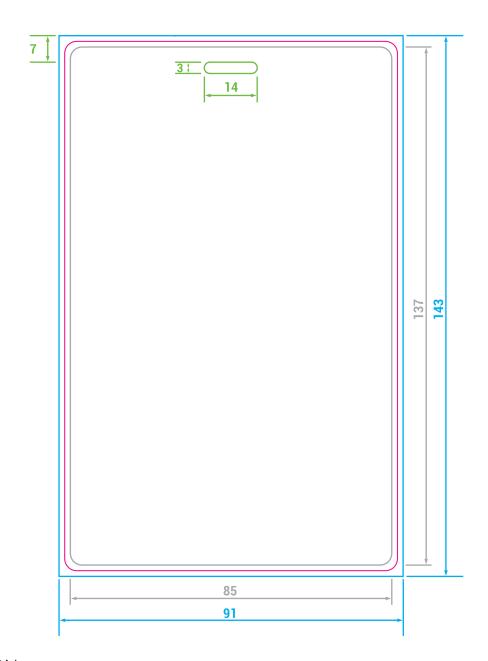


CARD DI	MENSION	DIMENSION OF	PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed	
88 mm	140 mm	91 mm	143 mm	3.18 mm	1.5 mm from the edge to the outside	
				Hole diameter	Safe zone	
				5 mm	1.5 mm from the edge to the inside	



1.4 XXL CARD

1.4.3 **Rectangular hole**

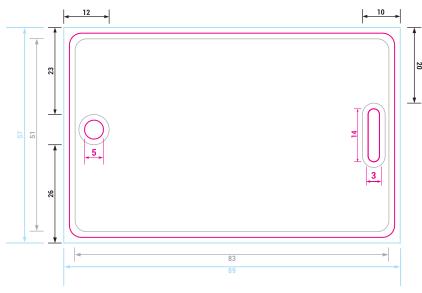


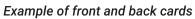
CARD DI	MENSION	DIMENCION OF	DDEDADATION			
CARD DII	VIENSION	DIIVIENSION OF	PREPARATION	Angle radius		51 .
Width	Height	Width	Height			Bleed
88 mm	140 mm	91 mm	143 mm	3.18	mm	1.5 mm from the edge to the outside
				Hole height	Hole width	Safe zone
				3 mm	14 mm	1.5 mm from the edge to the inside

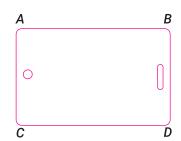


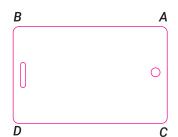
1.5 LUGGAGE TAG

1.5.1 **LGT 01**







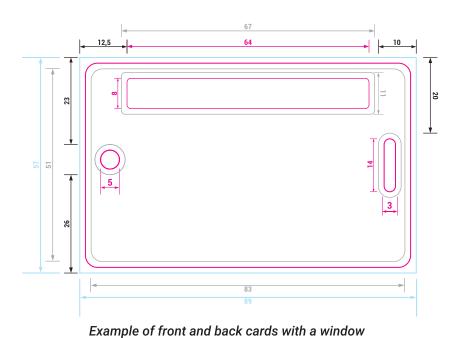


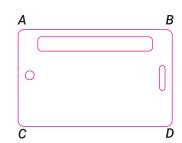
CARD DIMENSION		DIMENSION OF PREPARATION			_, ,
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
•		DIMENSION OF RECTANGULAR HOLE		Hole diameter	Safe zone
		Width	Height		4 -
		14 mm	3 mm	5 mm	1.5 mm from the edge to the inside

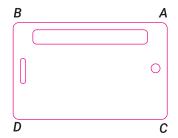


1.5 LUGGAGE TAG

1.5.2 **LGT 02**







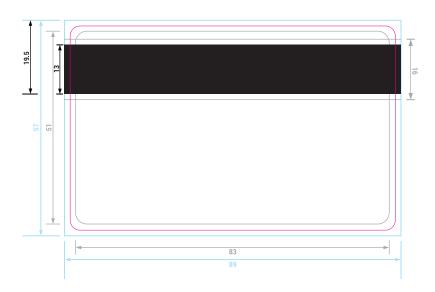
DIMENZIJE

CARD DI	MENSION	DIMENSION OF	PREPARATION	Angle radius		
Width	Height	Width	Height	3.18 mm	Bleed	
	54 mm	89 mm	57 mm	Window radius		
86 mm				1 mm	1.5 mm from the edge to the outside	
WINDOW D	WINDOW DIMENSION		CTANGULAR HOLE	Hole diameter	Safe zone	
Width	Height	Width	Height		4.5	
64 mm	8 mm	14 mm	3 mm	5 mm	1.5 mm from the edge to the inside	

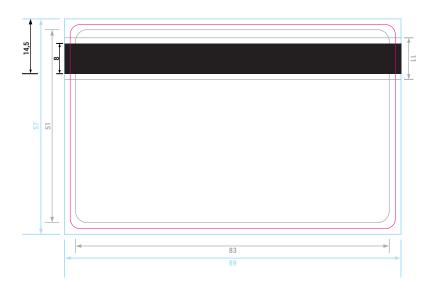


1.6 MAGNETIC STRIPE

1.6.1 Wide magnetic stripe



1.6.2 Narrow magnetic stripe



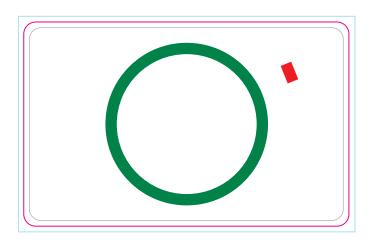
CARD DIMENSION		DIMENSION OF PREPARATION			
Width	Height	Width	Height	Angle radius	Bleed
86 mm	54 mm	89 mm	57 mm	3.18 mm	1.5 mm from the edge to the outside
HEIGHT OF MAGNETIC STRIPE		THE POSITION OF THE MAGNETIC STRIPE		HEIGHT OF MAGNETIC STRIPE	THE POSITION OF THE MAGNETIC STRIPE
8 mm		5 mm from the edge of the card		13 mm	5.5 mm from the edge of the card
NARROW			WI	DE	



1.7 CHIP POSITION

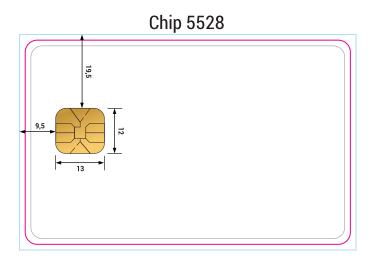
1.7.1 **CONTACTLESS CHIP**

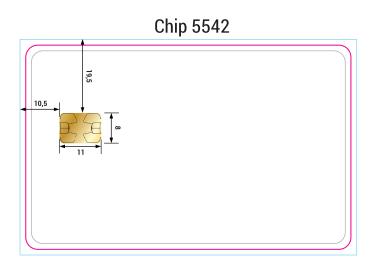
Contactless chips can be placed in any corner of cards and the example of the chip in the upper right corner of card's front side is given in the picture. Chips have antennas (green) while the chip is marked red.



1.7.2 **CONTACT CHIP**

Contact chips have the exact position they must be placed in.







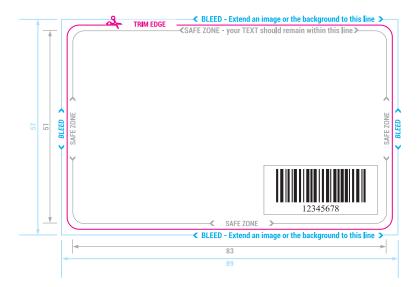
1.8 BARCODE

1.8.1 Barkocode field

If the number of barcode digits is 10 or less, the barcode field should be 13×30 mm or more. If the number of barcode digits is 11 or more, the barcode field should be 15×40 mm or more.

This specification varies depending on the density and type of barcode. You can also send an inquiry before sending the preparation.

Barcode can be positioned in any part inside of the SAFE ZONE.



1.8.2 **Label**

A label is a sticker that sticks to a card and contains a barcode on it.

It has constant dimensions: 40×15 mm and is done on the side where the barcodes are made. The barcode we have on the card is also on the label.

The position of the label must not be over the barcode field on the card.





CHAPTER 2

INSTRUCTIONS FOR PRODUCING FILES





2.1 BASIC REQUIREMENT

2.1.1 **General**

Preparation needs to be in CMYK colour mode so that the printing file can be used.

File must be prepared following the dimensions set.

All linked images within the working file must be **EMBEDDED**.

2.1.2 Colors and objects

Color and vector object values must be prepared in the CMYK color palette. The proposed total black coverage should not exceed 280%. This only applies to offset printing. While for all other types of printing only carbon (pure **K**) is used. The gray color should also be made of pure carbon to get the purest gray color possible.

Bitmap objects should be prepared at 300dpi in .JPG format.

2.1.3 Additional elements

Elements such as magnetic stripe, signature strip, holes and place for personalisation including random barcodes, contact and contactless chips must be marked for the position they can be placed or you want to place them.



2.1 BASIC REQUIREMENT

2.1.4 Personalisation

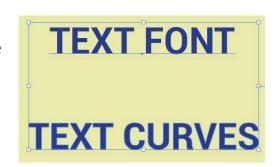
Personalisation elements, including barcodes, signature strips, hole types and other should be prepared in the form of vector object.

Text personalisation

All the text that is not personalised is converted into curves (make it unchangeable and uneditable but it will not request fonts on other computers). For the text that is personalised, the font must be sent.

With ready-made preparation of personalisation files are not in any way corrected by the company Cards Print-a.

We convert fonts into curves by clicking on the text (select/object/all text objects if we want to mark the whole text), then type/create outlines(ctrl+shift+O).



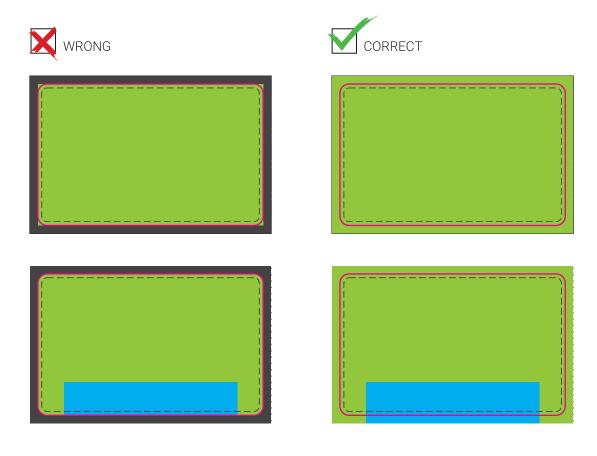
The example of the text preview in fonts and curves.



2.2 SETTING-UP THE CONTENT

2.2.1 **Bleed**

Graphic elements must be positioned up to the overhang line.



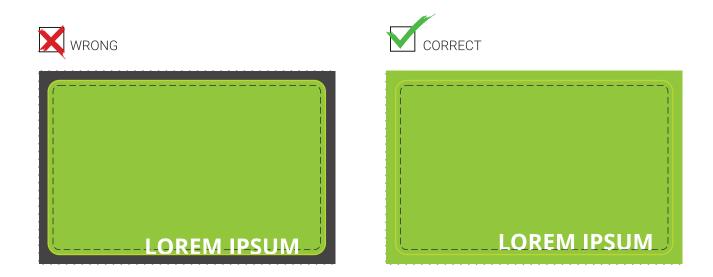


2.2 SETTING-UP THE CONTENT

2.2.2 Safe zone

To prevent graphic elements from getting to the cutting line, it is very important to position them within **safe zone**. Safe zone is 1.5mm from the cutting line.

Images need to be embedded when implementing them within your design. You can do it in Adobe illustrator by clicking the **'Embed'** button in the upper left corner of the illustrator window..

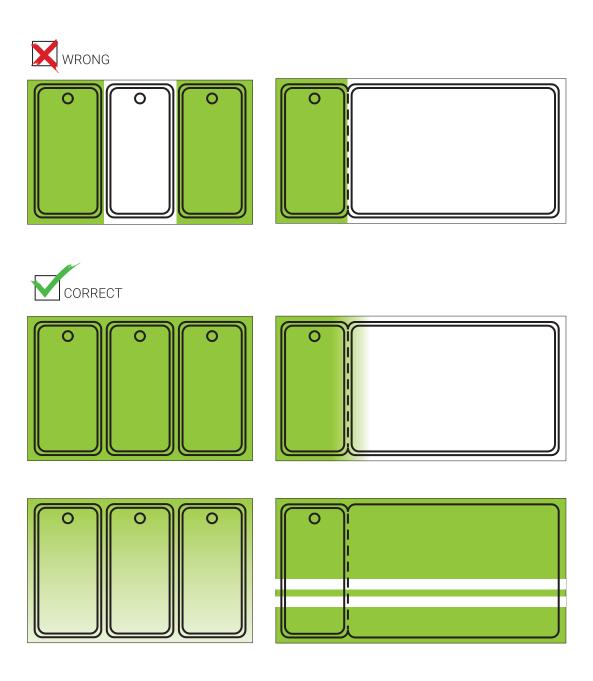




2.2 SETTING-UP THE CONTENT

2.2.3 Preparation of background for perforation

Background colours and elements must not have sharp gradation for perforation but they need to be gradient, one-colour background or graphic/image whose elements do not reach perforation line.





CHAPTER 3

RECOMMENDATIONS





3.1 SOFTWARE

3.1.1 **Software selection**

We recommend using softwares by the company **Adobe Systems Incorporated** to achieve the easiset compatibility with computing standards.

Each software has its own specific role and does not necessarily give the best solution for printing which also includes the software by the company **Adobe**.

For instance, it is usually mistakenly believed that one of **Adobe Photoshop** functions is saving in PDF format keeping vector layers. What is actually extracted is not a vector object with typical characteristics for this class but raster layers of bitmaps which makes a different type of object.

That's why efficient use of this object is not possible, so the printing quality could be lower than expected.

This is exactly the reason why our choice is Adobe Illustrator which contains original vector objects and exports it in PDF in accordance with the standards.

3.1.2 Effects and filters

Tools such as filters, shades, gradients etc. may vary through different versions of the software used. That is the reason why we strongly recommend a detailed checking of the preview we send you for confirmation as well as the sample if we deliver it to you.



3.2 COLORS

3.2.1 **Overprint**

Overprint option includes values of the covering colours. Covering colour means rewriting or reprinting over other colours.

A common mistake in preparation for printing is when black is not set to overprint but it covers them.

The most common problem in that case is black letters which are then very difficult to fit into printing. The most common lapse happening is photoshop files because it is not set to overprint black.

OVERPRINT option is not recommended for the type of printing we do.

3.2.2 Saturated black color

Due to a low level of black coverage in offset printing, it is advised to use specific methods to achieve deep black shade of the imprint. In our printing method, we recommend the following **CMYK** parametres:

C: 0%, **M**: 0%, **Y**: 0%, **K**: 100%

Different printing is used for different **CMYK** codes.

That is why we recommend that the elements should be vector and that correction is enabled.

3.3 TYPES OF FILES

Files we recommend:

- Ai

- PDF

- CDR

- EPS

- SVG

Fles we do not recommend:

Partial or complete inability to correct or adapt to the type of printing.

-PSD

-JPG



CHAPTER 4

ADDITIONAL INFORMATION





4.1 SCOPE OF RESPONSIBILITY

Bear in mind that the company **Cards Print** is solely responsible for technical part of printing and shall not bear liability for the file client sends, the way it was created and the extent the abovementioned files match our specification.

Not following requests and recommendations listed in this specification can make the file unusable or cause poorer quality than expected. In case a client wants to change the file, our design team estimates the file and informs the client of the corrections requested that can be made.

4.2 CHECKLIST

	Correct file (Vector format)
	Vector elements within the file
	Following safe zone
	Leaving bleed
	Dimensions in accordance with specification
	Colours is CMYK
	Text in curves
	Fonts for personalisation
	Position hole, chip and magnetic stripe
	Images Embedded within the file (JPG, 300dpi)
	Effects, fliters and overprint
·If y	ou make the model with perforation:
	Background with perforation