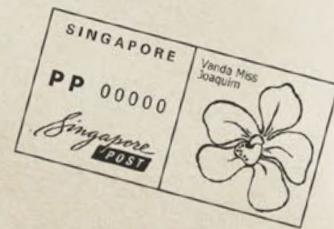


Mail Quality Guide

Here is your handy assistant to help you save time and cost. Use it as your guide to post efficiently every time.



CONTENTS

Standard Regular Mail

Size, Weight and Thickness	4
Types of Mail	5
Recipient's Address and Clear Zone	6
Sender's Return Address	7
Company's Logo and Advertising Message	7

Standard Large Mail

Size, Weight and Thickness	8
Types of Mail	8
Recipient's Address and Clear Zone	10
Sender's Return Address	10
Company's Logo and Advertising Message	11

Basic Guidelines for Standard Mail

Background Colour	12
Background Patterns and Design	12
Window Envelope	12
Contents	13
Uniformity of Mail Surface	13
Sealing	13
Address	14-17

Requirements for Mail with Customer Barcode

4-State Customer Barcode	18
Printing of 4-State Customer Barcode in Address Block	19
Visibility of Extended Address Block	21
Quality of Barcode	23
Testing of Barcode	23

STANDARD REGULAR MAIL

This booklet provides the guidelines for designing mail items which are to be posted in bulk. By following them, you can help us to increase the volume of automation-compatible mail which allows you to benefit from a faster and more efficient method of mail process.

Customers should use the individual guidelines for Standard Regular or Standard Large Mail together with the 'Basic Guidelines for Standard Mail' and 'Requirements for Mail with Customer Barcode'.

The guideline will be revised from time to time. Please refer to www.singpost.com for any updates. For enquiries and more information, please contact our Corporate help desk at 6422 2919.

1) Size, Weight and Thickness

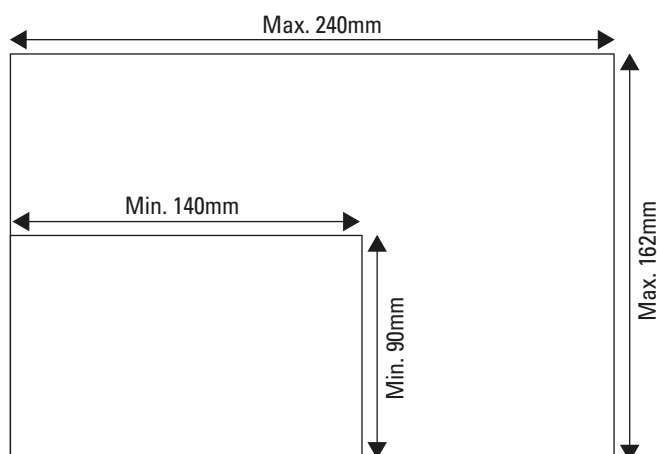
Standard Regular Mail should conform to the following requirements:

Size	Width	Length	Weight	Thickness
Minimum	90 mm	140 mm	2 gm	0.2 mm
Maximum	162 mm	240 mm	50 gm	6.0 mm

The following ISO sizes are recommended:

- i) DL 110 mm x 220 mm
- ii) C5: 162 mm x 229 mm
- iii) C6: 114 mm x 162 mm

Figure 1



2) Types of Mail

a) Standard Regular Mail in the form of Envelope

- Use rectangular envelopes in landscape format with the longer side of at least 1.4 times the shorter side.
- The paper material used for the envelope must be thick enough so that nothing is visible through it. We would recommend using paper stock of at least 100 gram per square metre (gsm).
- Plastic wrapped mail will not be accepted as Standard Regular Mail.
- Portrait format envelope will be considered as Non-Machinable Mail.

b) Standard Regular Mail in the form of Card

- A card must be from either of one piece of paper or cardstock or of two pieces of paper permanently and uniformly bonded together.
- Card must be constructed of unfolded and uncreased paper or cardstock that is uniformly thick.
- Use rectangular cards in landscape format with the longer side of at least 1.4 times the shorter side.
- Card should have paper weight of at least 230gsm.
- The side of the card for addressing should not be glossy.
- Card with die-cut or perforation will be considered as Non-Standard Mail.
- Portrait format card will be considered as Non-Machinable Mail.

c) Standard Regular Mail in the form of Mailset

- Use rectangular mailset in landscape format with the longer side of at least 1.4 times the shorter side.
- The side of the mailset for addressing should not be glossy.
- Paperweight
 - i) 2nd Ply: at least 80gsm
 - ii) 3rd Ply: at least 124gsm

STANDARD REGULAR MAIL

Sealing of Mailset

- Mailset must be completely sealed on all sides. All edges with sprocket holes must be removed to produce a solid edge.
- The pitch of sealing for the perforated sides must be 2mm cut x 1mm uncut.
- Mailset larger than 162mm x 240mm will be considered as Non-Standard Mail.
- Portrait format mailset will be considered as Non-Machinable Mail.

d) Standard Regular Mail in the form of Pressure seal mail or Pagemail

- Use rectangular pressure seal mail or pagemail in landscape format with the longer side of at least 1.4 times the shorter side
- The side of the pressure seal mail or pagemail for addressing should not be glossy.
- The paper material used for the pressure seal mail or pagemail must be thick enough so that nothing is visible through it. We would recommend using paper stock of at least 100gsm.
- Pressure seal mail or pagemail must be completely sealed on all sides. All edges with sprocket holes must be removed to produce a solid edge.
- Portrait format pressure seal mail or pagemail will be considered as Non-Machinable Mail.

3) Recipient's Address and Clear Zone

The recipient's address can be positioned anywhere within the address zone indicated. A zone of 10mm around the address block should be free from any printing. No other barcodes, except the address barcode should be positioned within the address zone. See Figure 2(a).

Clear zone is an area where there should not be any printing to allow machine to read the address and barcode or print barcode.

Barcode will be printed in the clear zone for sorting purpose. Clear zone must be of white background and non-glossy surface. See Figure 2(a) and 2(b).

No printed, typed or other information (including address or advertising messages/ logos) should appear in the clear zone indicated.

Figure 2 (a)

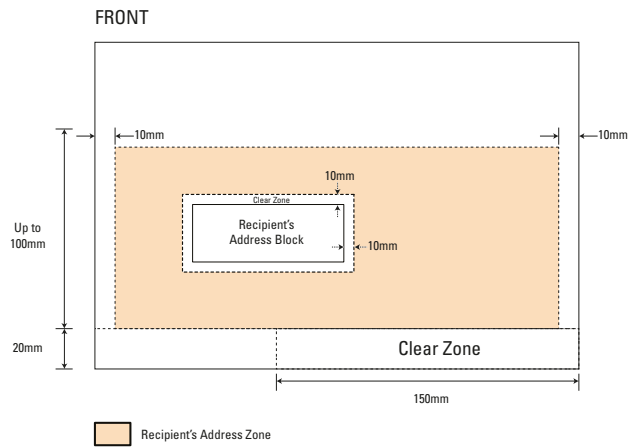
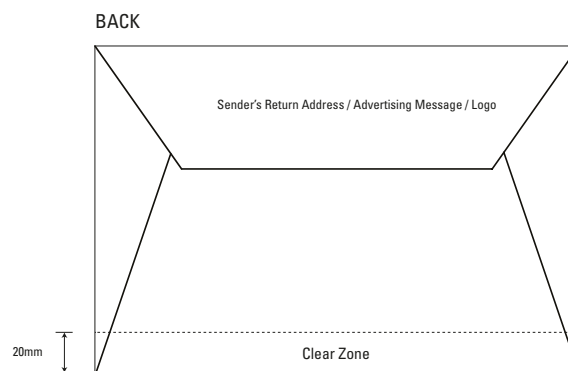


Figure 2 (b)

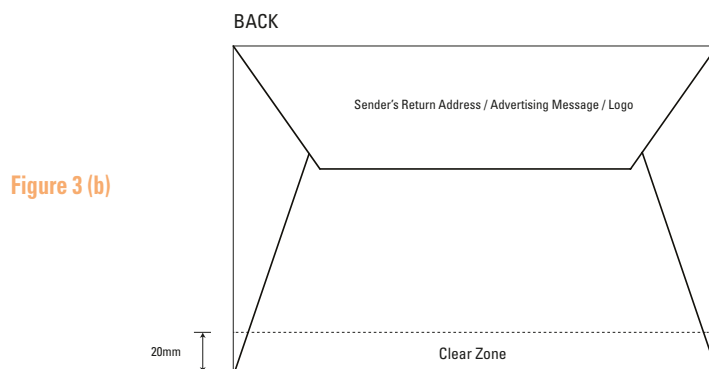
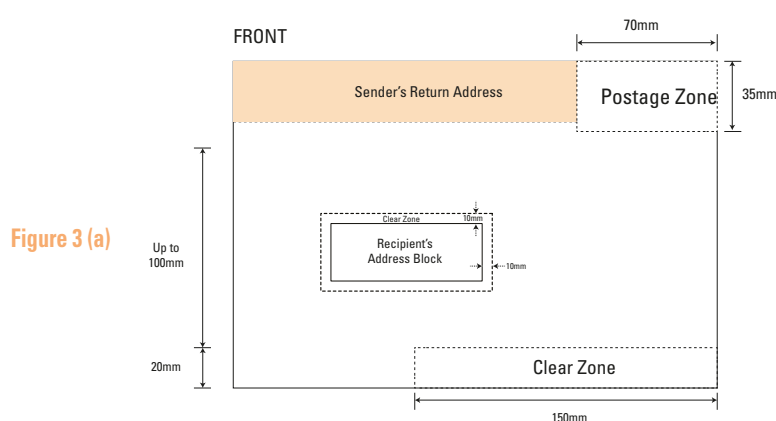


STANDARD REGULAR MAIL

4) Sender's Return Address

The sender's return address should be printed on the reverse side of the mail above the 20mm clear zone. See Figure 3(b)

If the sender's return address is to be printed on the front of the mail, it must be positioned on the top left corner above clear zone and recipient's address zone. See Figure 3(a).



5) Company's Logo and Advertising Message

To minimise OCR error in reading the address, company's logo and advertising message should be located on the reverse side of the mail above the 20mm clear zone. See Figure 3(b).

If the sender's return address is to be printed on the front of the mail, it must be positioned on the top left corner above clear zone and recipient's address zone. See Figure 3(a)

If company's logo and advertising message are to be printed on the front, a window envelope or a white address label must be used. See Figure 4(a) and 4(b).

Figure 4 (a)

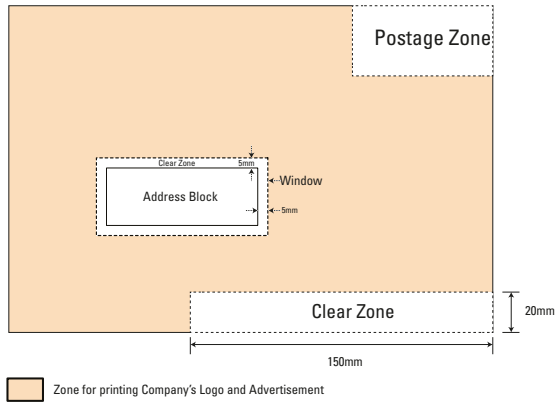
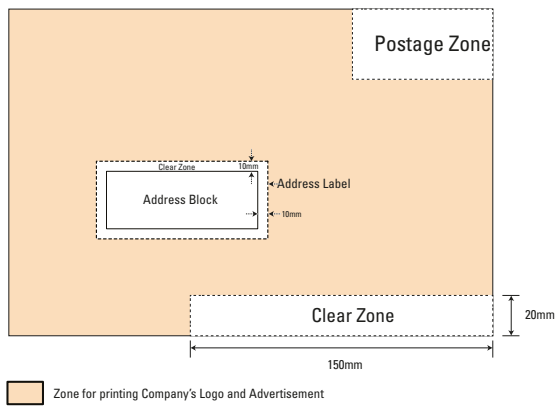


Figure 4 (b)



STANDARD LARGE MAIL

1) Size, Weight and Thickness

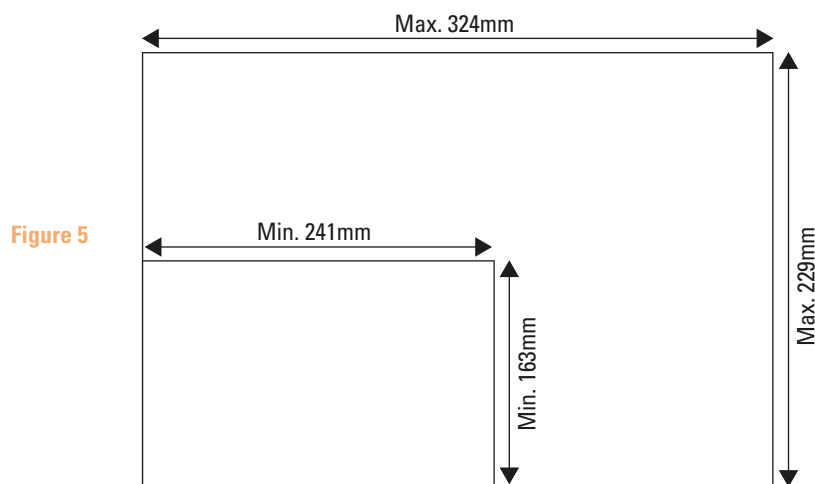
Standard Large Mail should conform to the following requirements

Size	Width	Length	Weight	Thickness
Minimum	163 mm	241 mm	20 gm	0.9 mm
Maximum	229 mm	324 mm	500 gm	7.0 mm*

* Thickness exceeding 14mm will be classified as not standard.

The following ISO sizes are recommended:

- i) B5: 176 mm x 250 mm
- ii) A4: 210 mm x 297 mm
- iii) C4: 229 mm x 324 mm



Note: For transparent plastic-wrapped mail, the size is measured by the contents enclosed

2) Types of Mail

a) Standard Large Mail in the form of Envelope

- Use rectangular envelopes in landscape or portrait format with the longer side of that least 1.4 times the shorter side.
- The paper material used for the envelope must be thick enough so that nothing is visible through it. We would recommend using paper stock of at least 100gsm.

b) Standard Large Mail in the form of Plastic Wrapped Mail

i) Polywrapping

- The polywrap must completely cover the mail
- The sealing should be on the reverse (non-address) side. If the sealing (including flap) has to be at the front (address) side, it should not cover any part of the address and barcode areas.
- The contents should be wrapped such that they do not move about easily within the plastic wrapper. However, it must not be so tight that it causes the piece to bend inside the polywrap.
- Loose flaps should be avoided. Please see the table in section (iii) on the allowance for Plastic Wrapped Mail.
- Plastic-wrapped mail with loose flaps exceeding the allowance will be considered as Non-Standard Mail.

ii) Pillow-case Plastic Envelopes

- The opening should be at the right edge of the address block.
- The contents should be wrapped such that they do not move about easily within the plastic wrapper. However, it must not be so tight that it causes the piece to bend inside the pillow-case plastic envelope.
- Loose flaps should be avoided. Please see the table in section (iii) on the allowance for Plastic Wrapped Mail.
- Plastic-wrapped mail with loose flaps exceeding the allowance will be considered as Non-Standard Mail

iii) Allowance for Plastic Wrapped Mail

Mail Thickness	Max Allowance for Shorter Sides	Max Allowance for Longer Sides
3 mm and below	15 mm	15 mm
3.1 mm to 5 mm	15 mm	15 mm (20 mm for barcode)
More than 5 mm	15 mm	15 mm (25 mm for barcode)

STANDARD LARGE MAIL

iv) Address Label And Carrier Sheet

- For mail that is plastic wrapped, the address should be clearly printed on the carrier sheet or address label. The address label should be parallel to the bottom edge of the mail. When address label is applied directly on the plastic surface, the label used must be non-peelable.
- If a carrier sheet or an insert is used, it should be the same size as the mail, so that it will not move about easily.
- For coloured or patterned wrapper, clear plastic material around the recipient's address block should be used so that the machine can read the address inside the plastic wrapper.
- The recommended physical properties of plastic wrapping material are:

Thickness: At least 35 micrometre

Co-efficient of friction: ≤ 0.35

3) Recipient's Address and Clear Zones

The recipient's address can be positioned anywhere within the address zone indicated. A zone of 10mm around the address block should be free from any printing. No other barcodes, except the address barcode should be positioned within the address zone. See Figure 6(a) and 6(b).

No printed, typed or other information (including address or advertising messages/ logos) should appear in the clear zone indicated.

4) Sender's Return Address

If the sender's return address is to be printed on the front of the mail, it should be positioned within the zone of 30mm on the sides. See Figure 6(a) and 6(b).

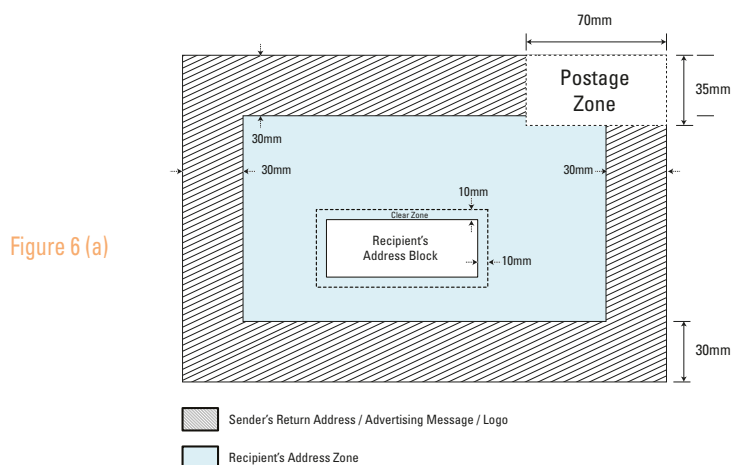
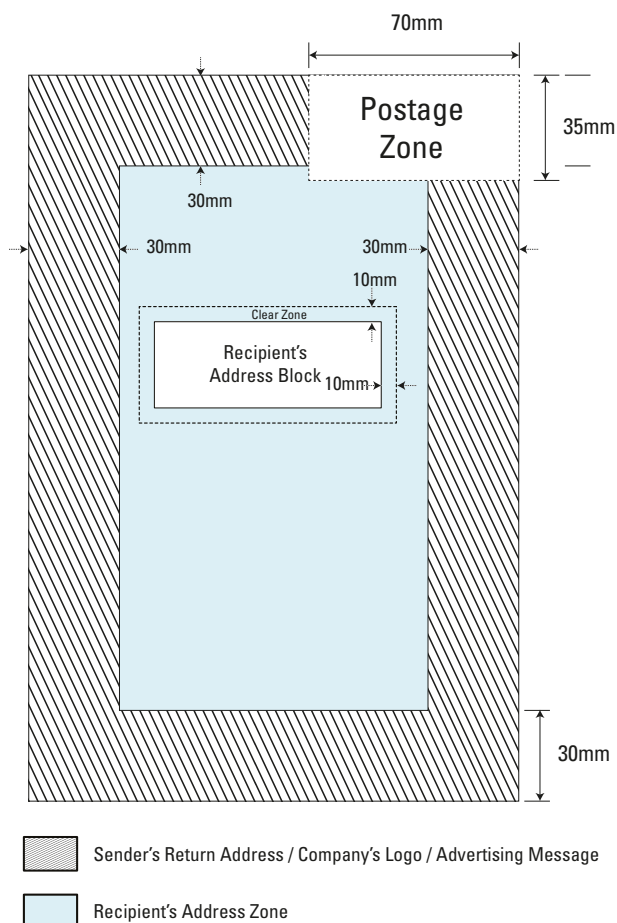


Figure 6 (b)



5) Company's Logo and Advertising Message

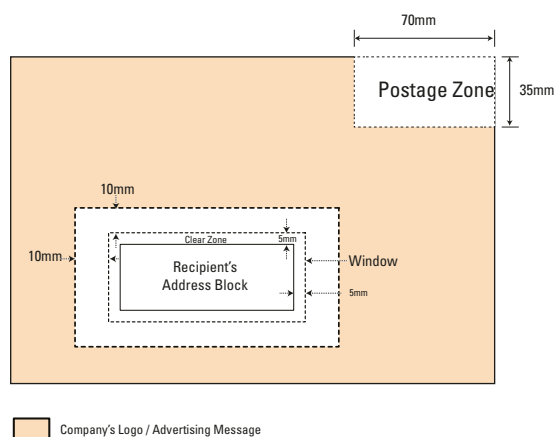
Optical Character Reader (OCR) is a machine used to read address on machinable mail.

To minimise OCR error in reading the address, company's logo and advertising message should be located on the back of the mail.

If company's logo and advertising message are to be printed on the front of the mail, it should be positioned within the zone of 30mm on the sides. See Figure 6(a) and 6(b).

If the company's logo and advertising message are to be printed outside the zone of 30mm on the sides, a window envelope or white address label must be used. See Figure 7.

Figure 7



BASIC GUIDELINES FOR STANDARD MAIL

1) Background Colour

Background colour should be of light colour that allows addresses and postmarks to be legible.

White, cream and pastel-coloured envelopes are recommended.

Dark colours would result in loss of effective contrast between address and background. This renders such mail unsuitable for address recognition by the Machines.

If dark colours are to be used, they must come with a window envelope or a white address label and the address must be barcoded.

Glossy address labels and stickers should not be affixed on the front of the mail.

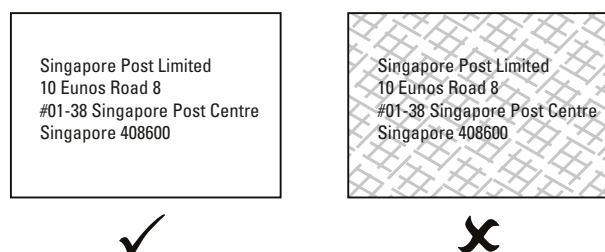
The following Pantone colours are acceptable for Standard Regular or Standard Large Mail:

120	127	128	134	135	141	148	149	155
162	169	196	203	250	304	317	331	332
337	344	351	358	365	366	373	386	393
400	406	413	427	434	441	453	454	461
467	468	474	475	482	488	489	496	502
503	510	524	530	531	538	545	552	559
566	573	579	580	586	587			

2) Background Patterns and Design

Security backgrounds, patterning, embossing, cluttered design or advertising messages of any kind should be avoided. If they are essential, they must come with a white address label and the address must be barcoded. See figure 8.

Figure 8



3) Window Envelope

a) Window Sizes:

Size	Width	Length
Minimum	30 mm	60 mm
Maximum	45 mm	80 mm

The entire address must be seen through the window at all times. No other information should be visible through the window. If information such as reference numbers need to be visible, it should be above the address block. Please refer to Figure 11(a) and 11(b) for details.

A clear border of width at least 5mm between the address block and the window is required. Please refer to Figure 4 and 7 for details.

One way to test the address window clearance is to tap the mail piece on a flat horizontal surface on all four edges to jog the insert as far down into the envelope as it can go. The address and customer barcode must be clearly visible and meet the required clearance after being tapped on each side.

b) Window Material

The window material should be colourless, transparent and non-textured. Window material must be clear or transparent. It should be completely and securely glued to the inside of the envelope aperture and should not be creased. The window should be positioned in the recipient's address zone.

The recommended physical properties of the window material are:

- Haze : 20% maximum
- Gloss: 90% maximum
- Thickness : 25-35 micrometre

4) Contents

Mail containing non-paper based enclosure, rigid or inflexible objects like paper clips and table calendar with ring binding are considered as Non-Standard mail.

Mail with content that moves about in the envelope will be considered as Non-Machinable Mail.

All other mail items that do not meet the Standard or Non-Standard mail conditions will be considered as a package.

BASIC GUIDELINES FOR STANDARD MAIL

5) Uniformity of Mail Surface

Mail with content that causes the thickness or surface of the mail to be uneven will be considered as Non-Machinable Mail.

Inserts where their size is smaller than the main letter or magazine are considered as Non-Machinable Mail.

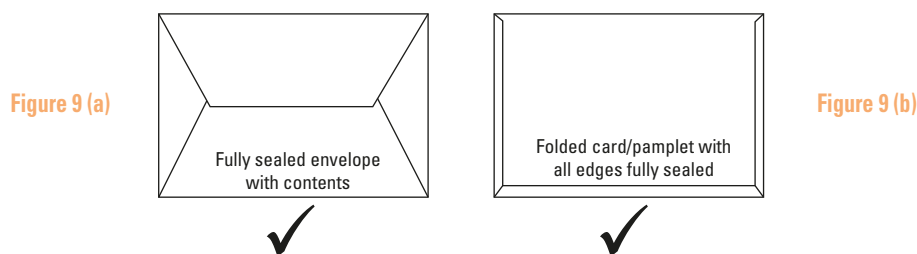
6) Sealing

The flaps of envelope should be on the reverse (non-address) side and the envelope must be firmly and completely sealed on all sides and edges, with no excess glue on the surface.

Spot sealing with stickers and band wrapper will be considered as Non-Standard Mail. Please refer to Figure 9(d) and Figure 9(e).

Staples and metals or plastic clips should not be used on the envelope for sealing purposes. Please refer to Figure 9(f).

Acceptable Sealing:



Not Acceptable Sealing:

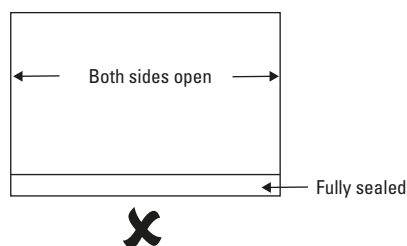


Figure 9 (d)

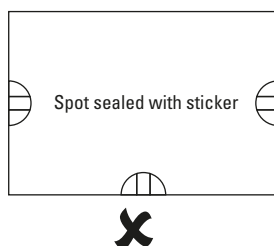


Figure 9 (e)

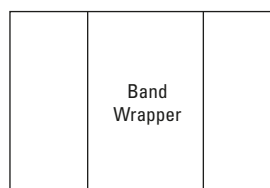


Figure 9 (f)

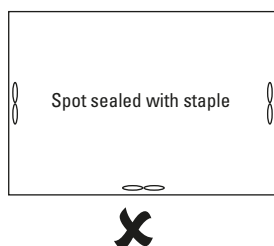
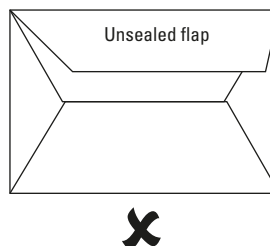


Figure 9 (g)



7) Address

The purpose of an address is to specify the delivery location of the mail. Mail with complete and properly formatted addresses allows us to provide consistent, on-time delivery to the recipients. Mail cannot have more than one delivery address.

a) Format

Typically, the address should be written in three lines.

The key information of an address should consist of:

- i) Building or House number
- ii) For HDB flats, the building number should be preceded by the word Block/Blk
- iii) Street Name
- iv) Level/Unit Number
- v) Building Name
- vi) "Singapore" must be spelt in full
- vii) Six Digit Postal Code

BASIC GUIDELINES FOR STANDARD MAIL

The last line of the address should comprise only "Singapore" and the six digit postal Code.

Address lines must be parallel to the bottom edge of mail.

Address must be printed on a white coloured background.

Where extra clarifying information is required, place this information before the address. This includes information such as:

- company name, designation, department, etc.
- non-address information, e.g. membership or subscription numbers, serial numbers, etc.

The following formats are acceptable:

Figure 10 (a)

Singapore Post Limited
10 Eunos Road 8
#01-38 Singapore Post Centre
Singapore 408600



Singapore Post Limited
10 Eunos Road 8 #01-38
Singapore Post Centre
Singapore 408600



Figure 10 (b)

The following formats are NOT acceptable:

Figure 10 (c)

Singapore Post Limited
10 Eunos Road 8
#01-38 Singapore Post Centre
Singapore 408600



Irregular Spacing Between Address Line

Singapore Post Limited
10 Eunos Road 8 #01-38
Singapore Post Centre
Singapore 408600



Irregular Spacing Between Words

Figure 10 (d)

Figure 10 (e)

Singapore Post Limited
10 Eunos Road 8
#01-38 Singapore Post Centre
S'pore 408600



Incomplete Spelling of the Word "Singapore"

Singapore Post Limited
10 Eunos Road 8 #01-38
Singapore Post Centre
S 408600

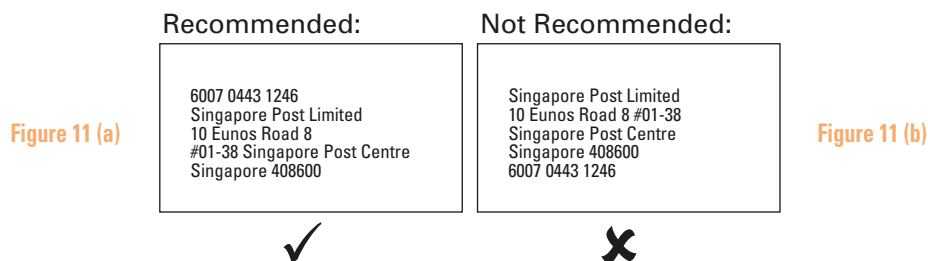


Incomplete Spelling of the Word "Singapore"

Figure 10 (f)

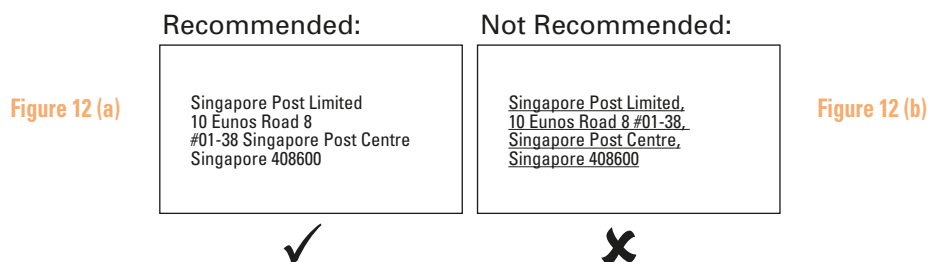
b) Non-address information

Sender's code, serial/account numbers or other information should not be included in the Recipient's Address. If necessary, it should be printed above the first line but never below the last line of the address. Please refer to Figure 11(a) and 11(b).



c) Punctuation/Underlining

Address should not be underlined. Punctuation is not necessary. Please refer to Figure 12(a) and 12(b).



d) Font Sizes and Types

Font size of 10 points is required.

Each line of the address should contain characters of the same size and font. Fonts that have constant pitch are recommended. A pitch of 10 to 12 characters per 25mm (1 inch) is also preferred.

Avoid italic, bold and pseudo handwriting scripts. Fonts that have both proportional spacing and serif are not recommended.

The following fonts are not recommended: Please refer to Figure 13.



Figure 13

BASIC GUIDELINES FOR STANDARD MAIL

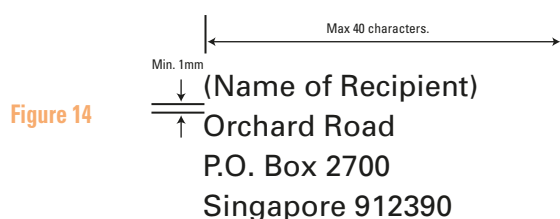
e) Address Lines and Spacing

The spacing between lines should be uniform.

The minimum spacing between address lines should not be less than 1mm apart.

Maximum spacing between address lines is 5mm.

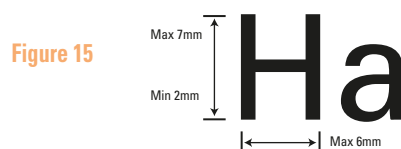
The maximum number of character per line is 40 characters, excluding spaces between words. Please refer to Figure 14.



f) Character Size

Individual character should have a minimum height of 2mm and maximum height of 7mm.

The maximum width of a character is 6mm. Please refer to Figure 15.



g) Characters of the Address

Addresses should be typewritten or machine printed with upper and lower case letters and numbers.

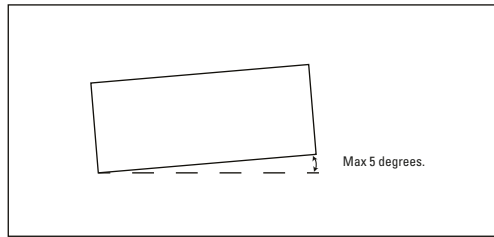
The print must be clean, clear, sharp, preferably black and uniformly printed.

Bold and italic as well as handwriting scripts should be avoided.

h) Skewed Addresses

The maximum tolerable skew is ± 5 degrees from the horizontal position. Please refer to Figure 16.

Figure 16



i) Alignment

The address lines should be left-hand justified i.e. each line should start at the same distance from the left-hand edge of the mail and be parallel to the horizontal position. Please refer to Figure 17.

Figure 17

(Name of Recipient)
Orchard Road
P.O. Box 2700
Singapore 912390

✓ Left-justified

j) Optical Character Reader (OCR) Readability Rate

The address must be darker than the background, preferably black ink against white background. Reverse contrast is not allowed.

The address prints must attain OCR readability rate of 90%

k) Accuracy of Postal Codes

The 6 digit postal codes must have an accuracy rate of 95%

l) Location of Address Block

The address block must be on the side with the postage zone. If envelope is used, the address block must not be on the sealing or envelope flap side.

REQUIREMENTS FOR MAIL WITH CUSTOMER BARCODE

Mail with Customer Barcode

In addition to the basic requirements, mail with customer barcode must conform to additional requirements as stated in this guide. It is important that the barcodes on your mail meet the barcode specifications. It is equally important that the barcode accurately represents the delivery address. An incorrect or improperly printed barcode can result in the mail being mis-sorted and delayed in the delivery.

1) 4-State Customer Barcode

The type of the code used is the 4-State barcode. The codes consist of a set of distinct bars and spaces for each character, followed by a checksum character and enclosed by a unique start bar and stop bar. Figure 18 shows an example of a 4-State customer barcode.

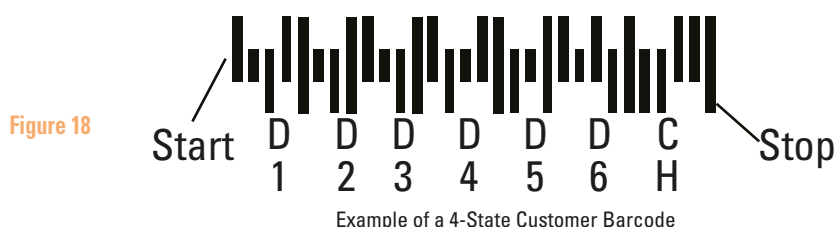
The customer barcode must be printed at a pitch of 20 to 24 bars per 25mm (1 inch) with all the bars equally spaced.

Font size of 10 points is required.

The recommended length of barcode must be:

Minimum length - 32mm

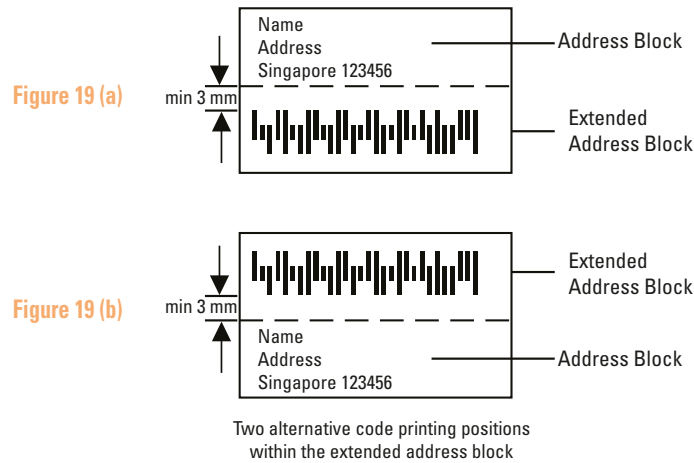
Maximum length - 37mm



2) Printing of 4-State Customer Barcode in Address Block

The address block together with the 4-State customer barcode forms an extended address block. The 4-State customer barcode should be the first or the last line of the extended address block, i.e. it should be positioned above or below the address block. Please refer to Figure 19(a) and 19(b).

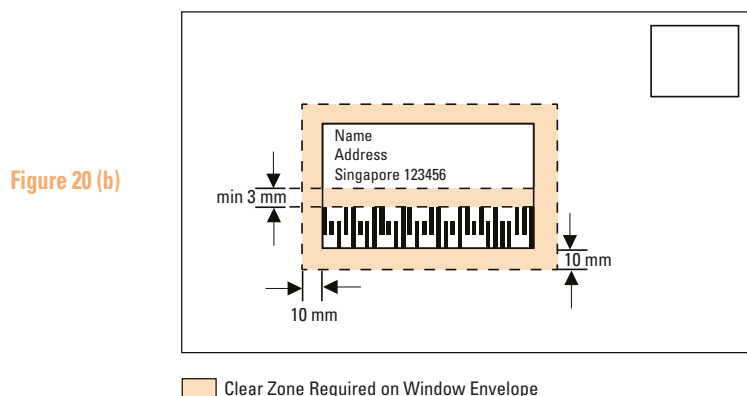
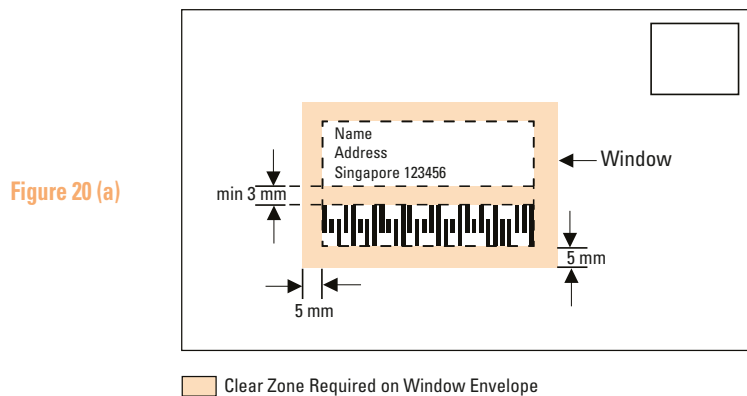
The minimum free space between 4-State customer barcode and Address is 3mm.



The extended address block containing the barcode can be printed either on the envelope, address label or within the address window. When address label is used, it shall be pasted parallel to the bottom edge of the mail. If printed within a window, the barcode must be completely visible. No other barcode should be printed within the address zone.

Requirements on clear zone for window envelope and non-window envelope are shown in Figure 20(a) and 20(b) respectively.

There should be no printing of other information 5mm (window envelope) or 10mm (non-window envelope) right and left of the customer barcode.



REQUIREMENTS FOR MAIL WITH CUSTOMER BARCODE

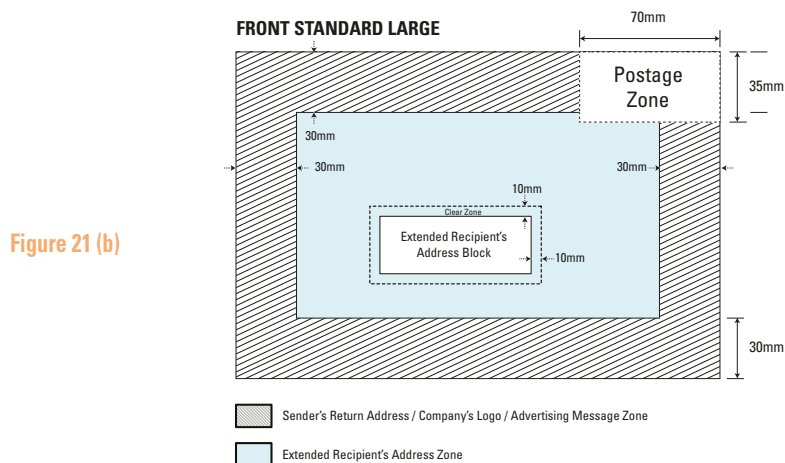
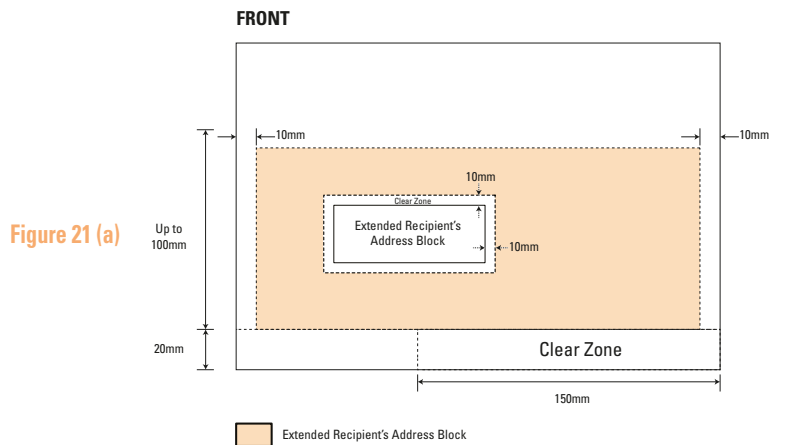
3) Visibility of Extended Address Block

The extended address block shall be fully visible and not hidden within the window of the envelope when the mail is being processed.

- Location of Extended Address Block

The extended address block must be at the front of the envelope.

The extended address block can be printed anywhere within the recipient's Address Zone. Please refer to Figure 21(a) for Standard Regular, 21(b) and 21(c) for Standard Large.



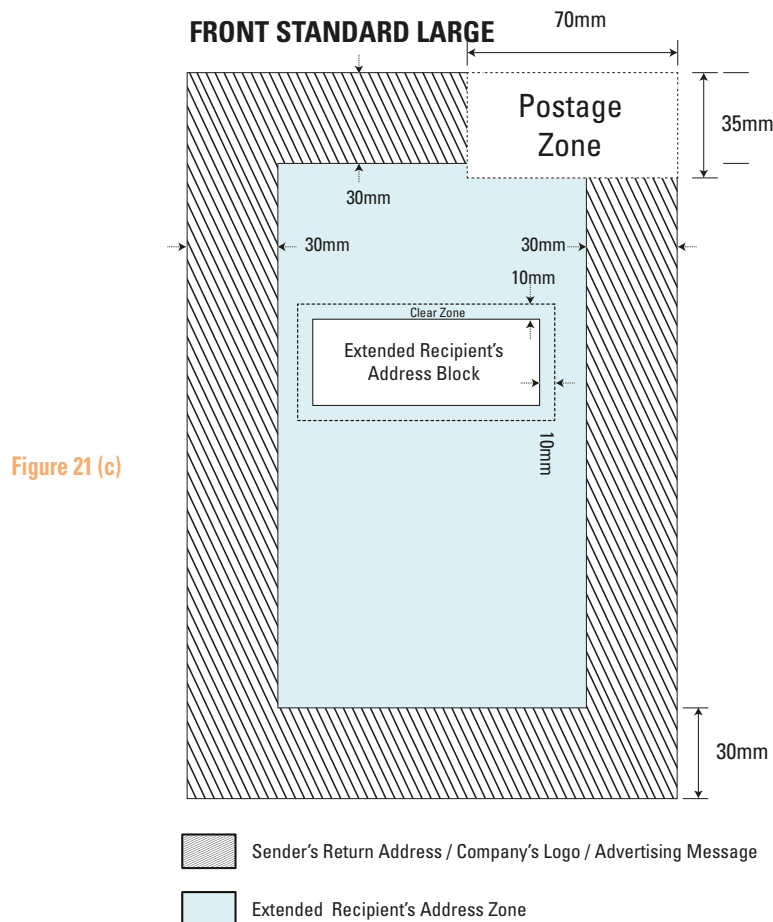


Figure 21 (c)

4) Quality of Barcode

- **Quality of print**
Barcode should preferably be laser printed. The barcode must be printed against a white coloured background
- **Printing irregularities**
Excess ink can prevent a barcode sorting machine from successfully interpreting the barcode. Please refer to Figure 22.

Lack of proper ink coverage may cause a barcode to be less than the minimum required dimensions. Please refer to Figure 23.



- **Acceptable Readability Rate**
The barcode prints must have a minimum readability rate of 99% that is tested on our sorting machines.

REQUIREMENTS FOR MAIL WITH CUSTOMER BARCODE

5) Testing of Barcode

Customers printing the 4-State customer barcode for the first time are advised to submit samples to Singapore Post for testing to ensure the barcodes meet the requirements.

Customers must submit a minimum quantity of 200 samples, which must consist of at least 5 different sector codes with a minimum of 20 pieces per sector code.

The addresses and barcodes must be printed on address labels and affixed on cards of at least 250gsm with white coloured background. All samples sent in for testing must have the words "Sample" or "Test Copy" printed on the top right hand corner of the card.

Customers can contact the Bulk Mail Centre at 6422 2919 for detailed requirements on encoding and printing of the barcode data on mail using the 4-State customer barcode symbology and testing of the barcode.



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