

## Registered Post Imprint

### Introduction

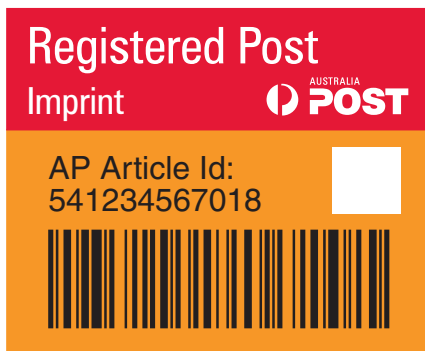
The objective of this document is to provide the printing specifications for the Registered Post Imprint, including its barcode format.

The imprint can be printed directly onto the enclosure of your article (envelope, wrapper, carton, etc), or onto a self adhesive label to be affixed using permanent adhesive onto the enclosure.

Each Registered Post article has a unique "AP Article Id:" number and barcode. You can print the barcodes using most variable data printing methods, including laser and thermal transfer. Ink jet printing is unlikely to provide sufficient clarity.

Australia Post requires that you provide your Account Manager with sample printed barcodes for testing prior to full production.

#### ▼ Example Registered Post Imprint with barcode



### Code 128C

The Registered Post Imprint Barcode uses the Code 128C symbology, and this document assumes that the reader is familiar with, and capable of printing, the Code 128C symbology barcode.

The "C" in "Code 128C" refers to the Character Set C of the Code 128 standards. Character Set C is used because it encodes the completely numeric data of the Registered Post Imprint Article Id at double the barcode density of the "A" or "B" character sets, giving a much shorter barcode than would otherwise be the case and allowing the barcode to fit on a relatively small imprint.

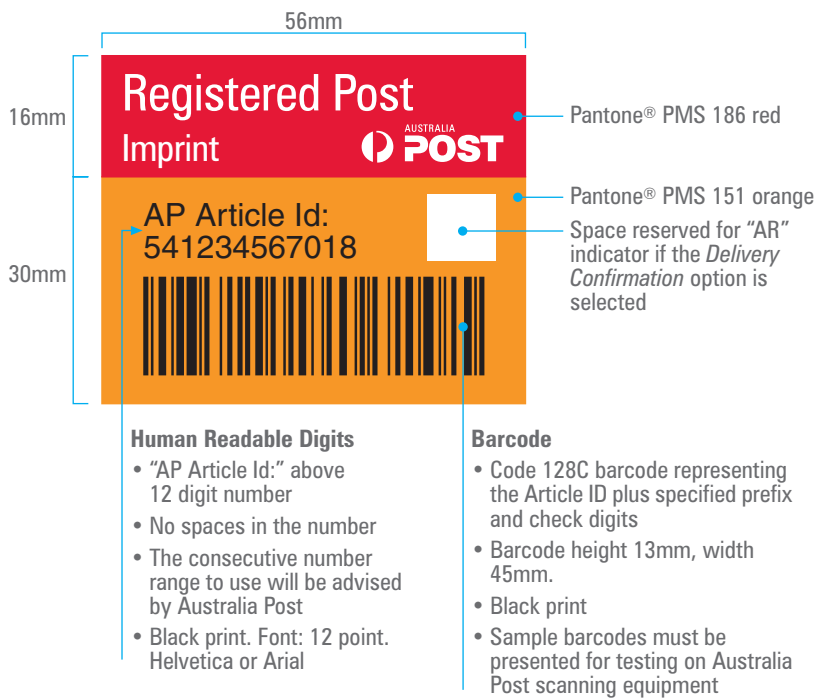
Please note that the Registered Post Imprint barcode is a standard Code 128 barcode – it is not an EAN-128 or a GS1-128 type of barcode because:

- it lacks the "double start" character FNC1 following the "Start C" character, which is indicative of an EAN/GS1-128 barcode
- it includes a modulo 10 check digit within the data to be encoded, in addition to the standard Code 128 modulo 103 check symbol.

# Specifications – Registered Post Imprint

## Size and colours

Imprint width:	56mm	Barcode magnification minimum:	33%
Imprint depth:	46mm	Code 128 module width minimum:	0.335mm
Imprint ink colours:	PMS 186 Red PMS 151 Orange	Barcode width minimum:	45mm
The barcode must be printed in black.		Barcode height minimum:	13mm
		Light margin minimums:	3.4mm left 3.4mm right








## Imprint artwork

Artwork for the design of the Registered Post Imprint is available from Australia Post on request, in widely used artwork formats including: EPS, PDF and SVG.

# Specifications – Registered Post Imprint

## Barcode components

### ▼ Components of the Registered Post Imprint barcode

Component	1	2	3	4	5	6	7
	Start C character	Prefix (always 997001)	Article number (increments)	Suffix	Check digit (calculated)	Symbol check character	Stop character
Length	1 symbol	6 digits	9 digits	2 digits	1 digit	1 symbol	1 symbol
Example		997001	541234567	01	8		
Example Barcode appearance							
Include in Human Readable	No	No	Yes	Yes	Yes	No	No

### 1. Start C character

The standard Code 128 Start C character.

### 2. Registered Post Imprint Prefix

6 digits – always **997001** for Registered Post Imprint barcodes.

### 3. Article Number

9 digits – the number sequence to use will be advised by Australia Post. The article number increments by 1 for each article.

### 4. Registered Post Imprint Suffix

2 digits – the value of these digits depends on the options you have selected for the Registered Post service – refer to the table below. The default Registered Post Imprint Suffix is **01** unless advised otherwise.

### ▼ Registered Post Suffix digits

Service option/s selected	2 digit suffix
Default (standard) service	<b>01</b>
Person to Person	<b>03</b>
Delivery Confirmation	<b>07</b>
Person to Person AND Delivery Confirmation	<b>19</b>

### 5. Check Digit

1 digit – to be calculated for each article. The algorithm is described in the following section. The Check Digit appears at the right of the Human Readable Digits.

### 6. Symbol check character

The standard Code 128 modulo 103 symbol check character. This symbol check character is calculated for each article and is additional to the Check Digit.

Refer to documentation on the standard Code 128 barcode for the calculation algorithm.

The symbol check character does NOT appear in the Human Readable Digits.

### 7. Stop character

The standard Code 128 stop character.

# Specifications – Registered Post Imprint

## Calculating the check digit

We have adopted the EAN/UCC-13 check digit algorithm (also used for the SSCC barcode).

The following is an example of a check digit calculation procedure for a barcode with the number 99700154123456701.

**Step 1:** Starting with the first number on the right add the six (6) alternate numbers, highlighted here.

997001**54123456**701

$$1 + 7 + 5 + 3 + 1 + 5 = 22$$

Multiply the result by three.

$$22 \times 3 = 66$$

**Step 2:** Starting with the second number on the right, add the five (5) alternate numbers, highlighted here.

997001**54123456**701

$$0 + 6 + 4 + 2 + 4 = 16$$

**Step 3:** Add the results of Step 1 and Step 2

$$66 + 16 = 82$$

**Step 4:** Add the number needed to bring the total to the next multiple of ten. In this case it is 8, which is the check digit. If a result is divisible by 10, then the check digit is 0.

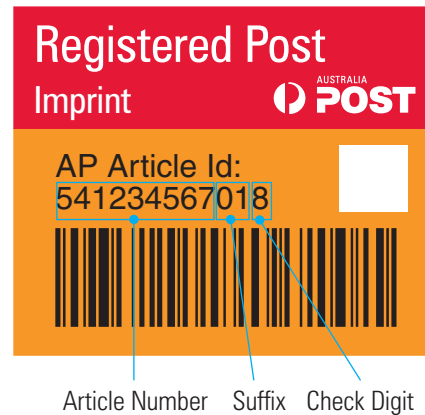
$$\text{Check digit} = 8$$

The check digit appears following the Registered Post Imprint Suffix, in both the printed barcode and the human readable digits.

## Human Readable Digits

Comprises the static text "AP Article Id:" above the 12 digit number comprising, from left to right:

- the Article Number (9 digits)
- the Suffix (2 digits)
- the Check Digit (1 digit)



Font for human readable: 12 point Helvetica or Arial

There must be no spaces in the 12 digit number.

The Human Readable Digits must be printed in black.

## For further information

Consult your Australia Post Sales Account Manager in your state.