


PITIX Specification					
File Ref	METROEL_LIB/SSC/IT_DEV/OFFICE_ADMIN/SUSPENSE/SUSP				
Creation Date	2019-05-24		Last Edit Date	2019-05-24	
Doc No. & Version	40007-V1	Author	DOELSCHIG	Page 1 of 4	

# Specification for Thermal Ticket Material for use in the portable ticketing devices (PITIX)



## SPECIFICATION FOR THERMAL TICKET MATERIAL FOR USE IN THE PORTABLE TICKETING DEVICES (PITix)

### 1. GENERAL

#### 1.1 INTRODUCTION

This document calls for the supply of thermal ticket material to Metrorail. The material will be used in Portable Ticketing Devices (PITix), currently in service with Metrorail.

### 2. SCOPE OF SPECIFICATION

2.1 This specification sets out the requirements of Metrorail for ticket material, supplied in continuous rolls, for use in the Portable Ticketing Devices (PITix).


2.2 This specification sets out the requirements for thermal material.

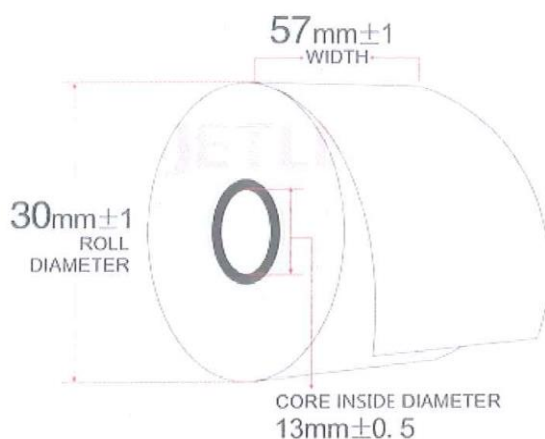


### 3. MATERIAL IN ROLLS

3.1 The material shall be supplied in continuous rolls, without joints, splices or breaks, and wound onto a central circular core.

3.2 The inner core of the roll shall have the following dimensions:

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- Inner diameter: 13 mm  $\pm$  0,5 mm.
- External diameter: 16 mm  $\pm$  0,5 mm.
- Width: 57 mm  $\pm$  0,1 mm; - 0,

3.3 The core of the roll shall preferably be made of a synthetic material suitable for the purpose and shall not be deformed or collapse under normal conditions of transport or storage.

3.4 The material shall be wound evenly on the core and with sufficient tension, so as to prevent telescoping with normal handling.

3.5 The ticket material shall be wound to the inner core in the following direction:


With the roll resting on a horizontal surface, and viewed from the top, the tape shall be wound in a clockwise direction with the printing face facing outward or thermal coating on outside of roll. The security printing shall be orientated such that is read from the outer end of the material, when the outer end of the roll is held upwards.

3.6 The external diameter of a fully wound PITix roll shall be 30 mm  $\pm$  0,1 mm.

Tenderers are to state the length of material contained on a roll.

3.7 The width of the ticket shall be 57 mm  $\pm$  0,1 mm. The width to be measured by an optical method.

3.8 Unless otherwise specified, the colour of the material is to be white.

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#### 4. THERMAL MATERIAL FOR PITix ROLLS

The ticket material supplied by the tenderer for use in the Portable Ticketing Devices (PITix) on all the Metrorail regions must comply (firm requirement) to the following specifications:

- Material: Durable Thermal Paper Roll;
- Thickness: **100mic Standard as per Tappi T-4111**;
- Thermal coating: Shall meet or exceed the ANSI 3.11 specification;
- Smoothness: Max. 75 Sheffield units;
- Top coating: The thermo-sensitive surface of the ticket stock must be top coated;
- Preprint: Tickets can be pre-printed on one, or both sides;
- Ink for thermo-sensitive side: Laser printer approved ink without whiteners; and
- Ink for rear side: Offset ink.

Tenderers to state the meterage on each roll.

**END OF THE PITix THERMAL SPECIFICATION**

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