



Full Height Mantrap Turnstiles

Product Description

The Full Height Mantrap Turnstile range is high quality and allows ALLTECH to cater for a variety of applications.

The person is captured in mantrap where a fingerprint reader, palm reader or a digital pad is positioned. This unit must be accessed in order to enter the premises. If the person has no valid access to the premises the arms will not release allowing them to pass out the same way that they entered. The turnstile arms are locked in position by solenoids rated for continuous operation. Internal mechanisms return the rotating arms to the locked position after each rotation.

Applications

- Recreational Areas
- Secured Residential Compounds
- Corporate reception foyers
- Low security industrial Areas

Drive

Hand-operated, bidirectional

Materials

Casework

- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)

Rotor

- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)

Side Frame & Comb

- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)

Technical Features of the Mechanism

- Heavy-duty solenoids are rated for continuous duty cycle to ensure optimum reliability.
- Components of the mechanism do not lose their adjustments after years of service under arduous conditions.
- The arms are released for one rotation of 90 or 120 degrees (movement to allow one pedestrian entry/exit) by activation signal from a number of sources, e.g. code cards, push buttons, coins, key, computer etc.
- The Turnstile Arm Spacing is designed to ensure a single entry/exit per legitimate activation signal.
- Internal Mechanisms return the rotor to the locked position after each rotation

Power Failure/Fire Alarm

In the event of an emergency or isolation of power supply, the turnstile will remain in a locked position, and can be overridden by a mechanical key switch

Interface

The mechanism is controlled by means of a TL400 with the following features

TL400

- Two (0V) input provided for entry/exit push button control
- One (0V) input for exit direction control by means of a fingerprint reader
- Two (0V) outputs for directional status
- Mechanical key switch override for opening/locking each individual direction

Technical Data

Dimensions	See details on next page
Power Supply:	220V
Power Rating	Single Phase 230 VAC 50 Hz
Logic Voltage	220V
Operating Temperature	0 to 55°C
IP Rating	IP20

Flow Rates (approx.)

<u>Reader Device</u>	<u>Number per Minute</u>
Insertion Type	12
Insertion Type with Pin code keypad	7.5
Swipe Type	15
Swipe Type with Pin Code Keypad	8.5
Proximity "Hands Free"	15

Models Available

- 4 Arm Full Height Mantrap Turnstile

Finishes

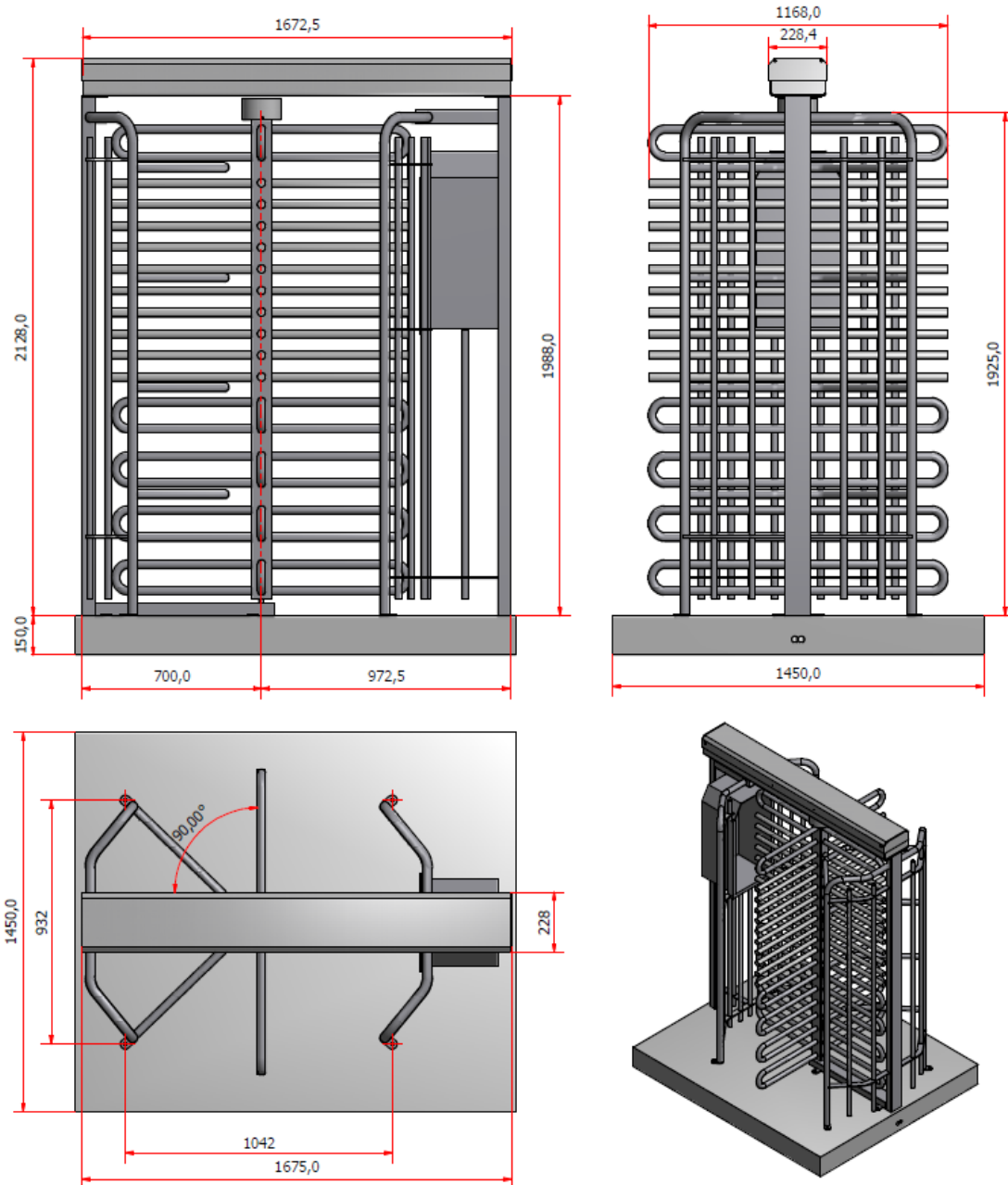
- Mild Steel Powder Coated
- Hot Dip Galvanised
- Stainless Steel 304

Site Preparation

Product Delivered as sub-assemblies and may require lifting equipment
(For installation details, please refer to the installation Manual)

4 Arm Full Height Mantrap Turnstiles

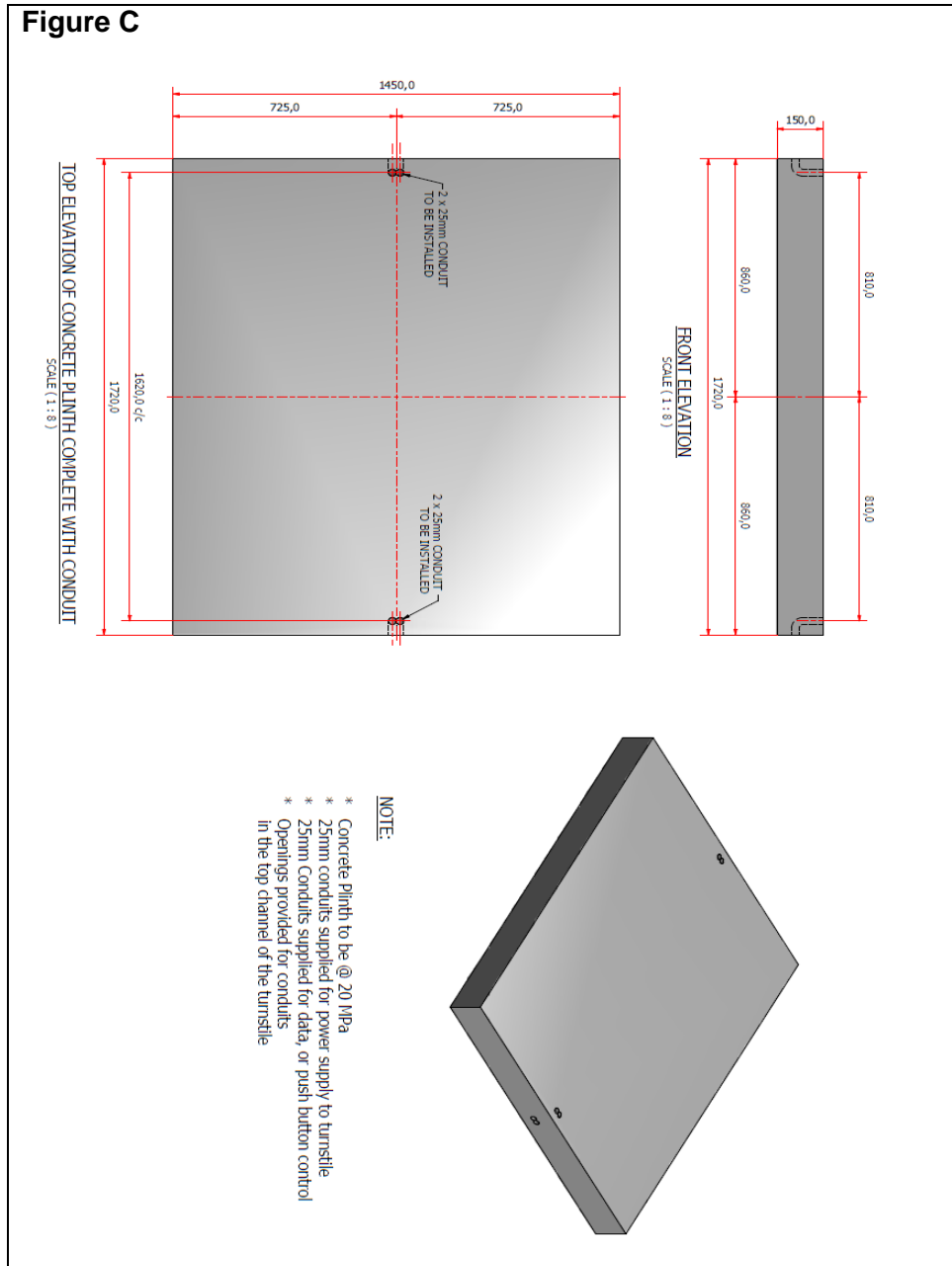
Figure A



Important

- Any horizontal pipe or conduit running below the “Turnstile” must be at least 140mm below FFL
- The dimensions given in this Product Data Sheet are for Information only. In order to prepare the installation site, please refer to the installation manual or ask conformation
- Metal conduit for cables should be raised at least 50mm from Foundation. It is the customer’s responsibility to ensure the structural integrity and strength of the installation

Concrete slab & floor site preparation



Concrete base to specification at least fck (cube) 300N/mm² of resistance
Base to be flat and level to +/- 5mm over footprint area.
Dimensions to be 1450 x 1450 x 150 deep min. (Units in mm)

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