

## A New Sliding Door Concept

...Made in Thailand



## TERRADOOR

### Features:

- Fully made of Stainless Steel
- Heavy Duty
- Long Service Life
- Easy Installation
- Smooth Operation
- Fail Safe
- Fits any door size

### Competitive Pricing

This new concept of a sliding door system is ideally suited for heavy duty applications in industrial warehouse operations like cold room doors. It fits virtually any door size. The concept is to supply a modern and reliable door system made from the best available raw materials and at very reasonable prices.

The door is suspended by two roller assemblies that rest on a tubular sliding rail. Two indentations in the rail, at the left and right hand sides of the door leaf, ensure that the door is lowered onto its bottom gasket and simultaneously pushed backwards to its rear gasket system. This movement is very smooth ensuring a long service life of all components.

While the guiding rollers are moving into their indentations a second pair of rollers will move onto brake springs, which are braking the forward movement of the rollers, slowing them for their final movement into the closed position of the door.

While the door is closed the braking rollers are resting on the tensioned spring blocks. When the door is opened again, the springs release their load thus assisting the opening movement of the rollers. This allows a light opening of heaviest door assemblies.

The system can be combined with any door opening handle, that may be required depending on door weights.

Suitable for door insulation

materials:                      PU foamed doors (yellow foam)  
  EPS foamed doors (white foam)

#### **Technical Details:**

**Rail:** Made of stainless steel, AISI 304

**Wall Connection:** By heavy duty fixing plates, with heavy duty tie rods with adjustment nuts M10; to adjust lateral rail position, made of stainless steel, AISI 304.

**Roller Assemblies:** Two roller assemblies, consisting of each two PA6 (Nylon) Rollers. Guiding rollers mounted on heavy duty stainless steel roller bearings. Brake rollers mounted on sliding rods for lateral movement. Roller assemblies are mounted to the door by sliding plates to allow for door position adjustments.

**Brake and opening assistance:** Two units. Adjustable stainless steel spring assemblies, mounted in the rail, adjustable by screws from below the rail. Material in contact with brake rollers is made of AISI 304.

Consisting of “foam-in-place” plates with two welded thread bolts. Effective adjustment range; approx. 30mm. Nuts and safety nuts supplied.

Above description is made for the standard execution of our door sliding rail system. Additionally we are able to supply this system in special execution. Example: the whole system made from stainless steel AISI 316, suitable also for severe ambient environments like seafood processing or in a lightweight version for doors with a width of about 1 –1,5 m.



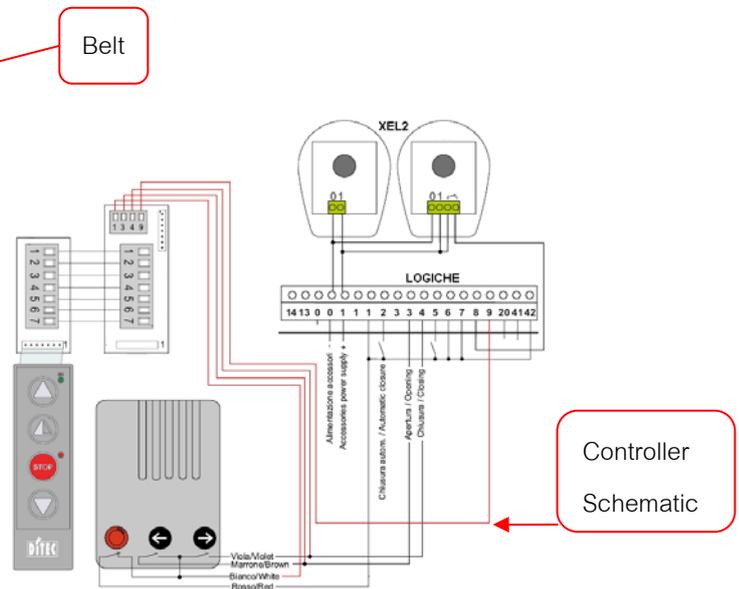
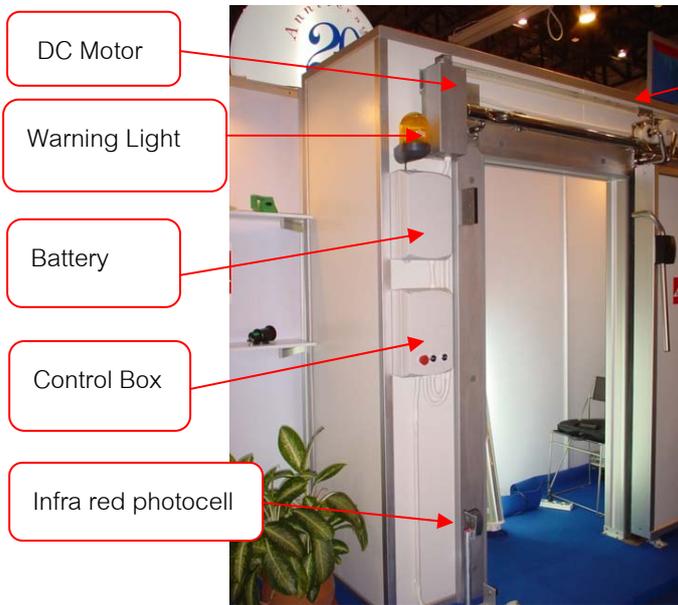
**Each set consisting of:**

- 2 wheel assembly sets, with door thickness adjustment, ball bearings and sliding bearings.
- 4 nylon (Polyamide 6) wheels, suitable for extreme temperature ranges, white.
- 2 brake and opening systems, made of stainless steel, mounted into the guide rail.
- 2 door height adjustment systems, to be foamed into the door leaf.
- 3 wall connection plates, mounted to guide rail, with distance adjustment nuts.

**Please inform your door details.**

( Door drawing )

- Door thickness
- Door width
- Door height
- Opening of the door ( width & height )



## Specification

### TERRADOOR – Automation System

The door automation system consists by standard of following components:

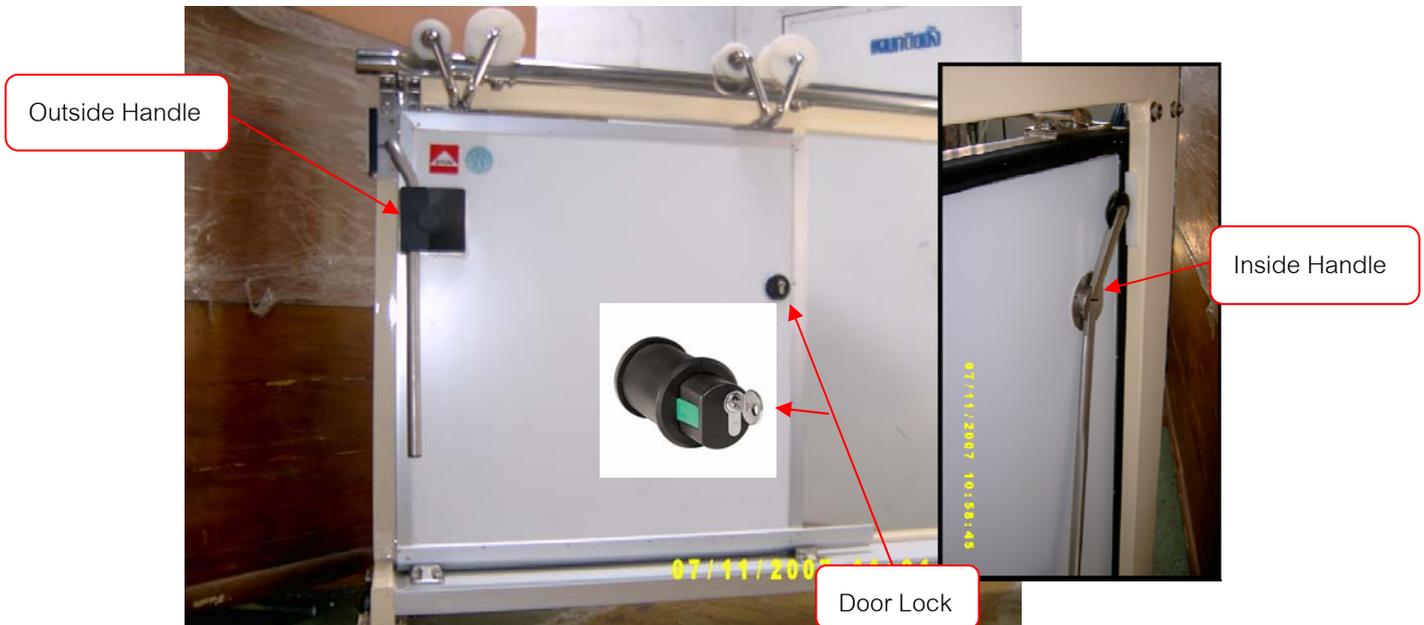
1. Electrical Step Motor, 24 V, 0.192 kW
2. Control box, with pre-programmed drive control
3. Control box, with back-up batteries
4. All required mechanical parts, and drive belt
5. All electrical components (with sensors and indicator lights)

The system is suitable for sliding doors up to 3000mm width and a height of 2500mm.

### Functions:

The automatic system is pre-programmed for following functions:

- Opening in sequence – slow / fast / slow
- Partial or full opening.
- Safety system includes resistance sensors of movement, infrared barriers (one set as standard)
- Manual opening assistance
- Battery operated back-up system for 50 opening / closing cycles, without mains power.
- Additional input channels for motion sensors, additional switches like rope/chain operated switches are available
- Indicator lights at both sides or door, with flash warning when door is in operation.



#### Door Accessories, each set consisting of;

1. Outside Handle made of Stainless Steel 304 and Housing is Plastic PA6
2. Inside Handle made of Stainless Steel 304, hinged inside handle
3. Door Lock made of Plastic PA6, The new lock for sliding doors particularly applies for cold room- and freezer doors and in addition for other sliding doors. The special features of the lock are the **door thickness adjustment** from 77 mm - 123 mm, the **integrated emergency escape fitting** by pressing a knob only and the **right and left hand use**. There is no air interchange in the lock and therefore it is impossible that the lock can freeze. For this reason an additional heating wire is not necessary. Optionally the lock can be equipped also with an electrical, contactless switch. Thus no disturbing cable from the lock to the frame is necessary.