



# SECTIONAL DOOR DOUBLE-WALLED

## TECHNICAL DATA SHEET

### THERMO 40



#### HEADQUARTER

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# SECTIONAL DOOR DOUBLE-WALLED THERMO 40

## 1. SECTIONAL DOORS WITH 40 MM THICK DOUBLE-WALLED STEEL PANELS

The **Thermo 40** is standard high-performance solution for the industrial sector. It features a sandwich panel design with partial thermal break, offering an optimal balance between insulation, durability and functional aesthetics. Energy requirements for industrial and commercial buildings are becoming increasingly stringent, both for façades and for entrance door specifications.

- . Best insulation value.
- . Also available with aluminium panels.
- . Ideal for logistics centres.

## 2. TECHNICAL PERFORMANCE (EN 13241 CERTIFICATION)

With its optimal insulation and a U-value of 0.52 W/m<sup>2</sup>K, the 40 mm ISO panel of the THERMO 40 meets customers' requirements for compliance with current energy-saving regulations. The **Thermo 40** sectional door is ideal for industrial warehouses and logistics and distribution centres, where heat loss represents an environmental and economic risk and where maintaining a consistent temperature for goods is essential. For optimal bottom sealing, uses a double-lip, double-chamber rubber seal.

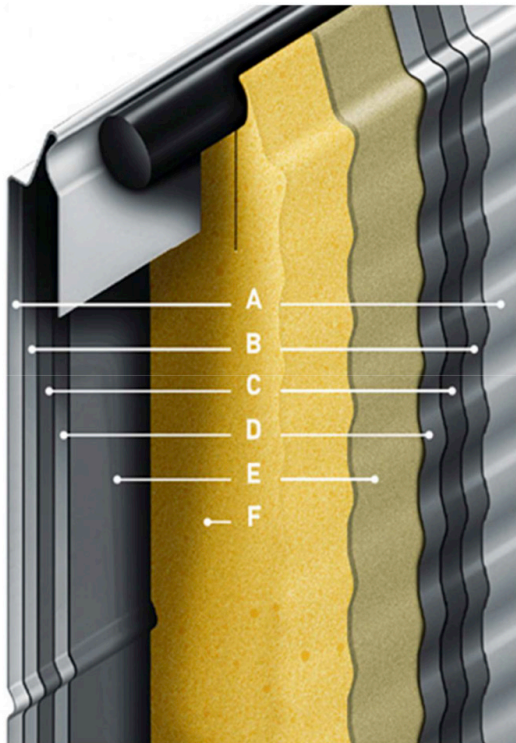
- . Panel thickness: 40 mm constant section.
- . Insulation value: U=0,52 W/m<sup>2</sup>K
- . PU foam density:: 40 kg/m<sup>3</sup>
- . Panels: exterior MICROLINE micro-profiled finish.
- . Interior design: stucco finish.
- . Installed door (e.g. 5 × 5 m): approx.1,02 W/m<sup>2</sup>K
- . Wind resistance: Class 3-4 (withstands winds up to 120-150 km/h)
- . Water tightness: Class 3 (70 Pa)
- . Air permeability: Class 2 - 3.
- . Acoustic insulation: Reduction of ~25 dB (A).

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**THERMO 40**

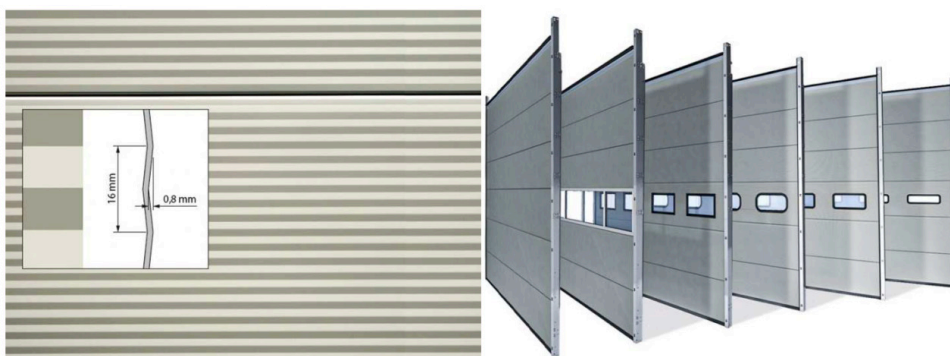
**THERMO 40 SANDWICH PANEL CONSTRUCTION**



<b>A</b>	<b>Paint finish (exterior)</b>	Available in 19 colours, micro-profiled (standard)*
<b>B</b>	<b>Zinc coating</b>	275 g/m <sup>2</sup>
<b>do</b>	<b>Steel sheet</b>	0,5 milimetres
<b>D</b>	<b>Zinc coating</b>	275 g/m <sup>2</sup>
<b>mi</b>	<b>Adhesive primer layer</b>	
<b>F</b>	<b>Rigid PU foam</b>	g= 40 kg/m <sup>3</sup>
<b>A</b>	<b>Paint finish (interior)</b>	RAL 9002 horizontally profiled
<b>Panel thickness</b>		40 milimetres
<b>Thermal insulation value</b>		U= 0.52 W/m <sup>2</sup> K
<b>PU foam density</b>		40 kg/m <sup>3</sup>
<b>Acoustic insulation</b>		25 dB (based on a 4,100 × 2,830 mm door, without window or integrated pedestrian door)

### 3.THERMO 40 ADVANTAGES

#### 3.1 MICROLINE PANELS, ARCHITECTURAL DESIGN



The MICROLINE micro-profiled steel sheet panels offer excellent acoustic absorption and insulation properties; they are extremely weather-resistant and available in 8 standard colours at no extra cost!

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### 3.2 STANDARD CORNER FRAME

The connection of the door leaf to the galvanised vertical guides via a standard corner frame ensures a stable and effective seal between the door side and the building.



### 3.3 BOTTOM SEAL

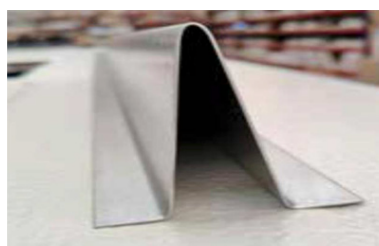
A double rubber seal profile with an inward-curved sealing lip is used to provide an optimal door finish.

The rubber profiles are held in place by a special metal profile with low thermal conductivity. The double sealing lip of the rubber profile fits perfectly against the frame seal.



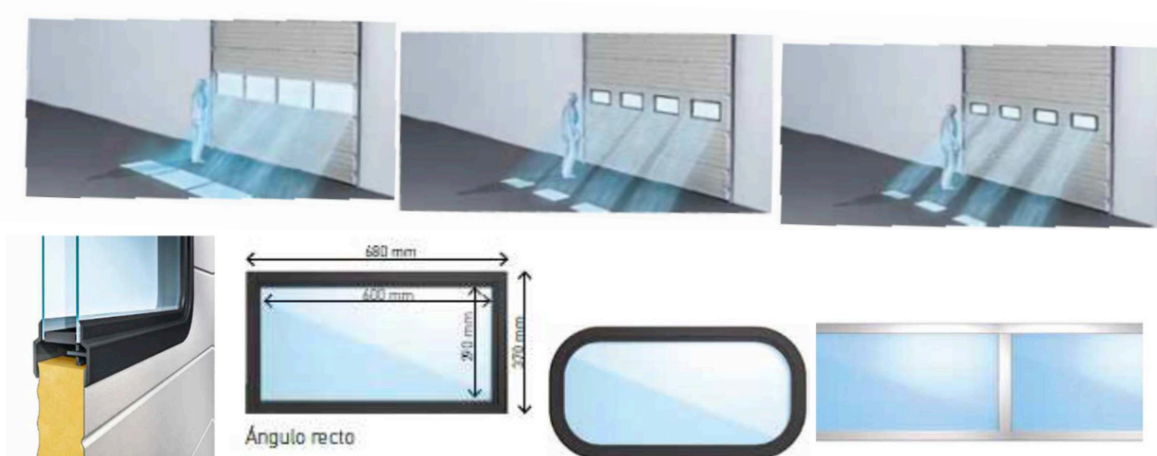
### 3.4 WIND REINFORCEMENT

To increase wind resistance and comply with all relevant standards and regulations regarding high wind loads, the doors are fitted with reinforcement profiles depending on the width.



### 3.5 WINDOW FUNCTION

Thermally insulated sectional doors can be fitted with plexiglass glazing for optimal lighting conditions and good visibility. Standard window options, with square or rounded corners, are available and feature insulated glazing.



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### 3.6 MOTORISATION TYPES

There offers several options for operating the sectional door. For less frequent use, a simple manually operated system can be selected. For frequent use, an electric door with impulse control is recommended.

Depending on the door configuration and your requirements, there is always a suitable operating solution available. Our drive and operating modes comply with European standard EN 13241.

#### MANUAL EMERGENCY CHAIN OPERATION

All drive systems are equipped as standard with a mechanical emergency operation for the electric motor. This allows the sectional door to be opened even in the event of a power failure. The function must be engaged and disengaged manually using changeover cables.

The drive can then be operated using the chain.

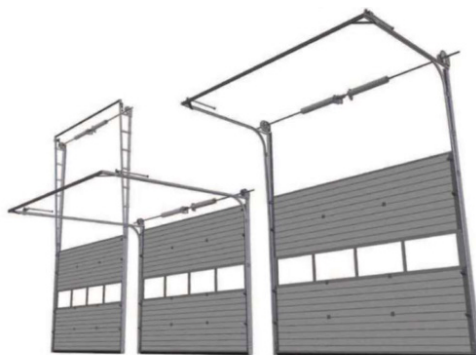
#### CONTROL PANELS TS971 / TS970

The TS971 / TS981 / 970 controls are impulse controls for the Thermo and FU operators (the TS971 is also available as a hold-to-run control). They feature an integrated display in the cover, a 3-button control panel, and connections for safety edges, light curtains, slack-cable switches, and integrated pedestrian door switches. In addition, functions such as automatic closing or door locking can be programmed. They are suitable for motors with a power rating of 3 kW.



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## 4. LIFTING TYPES (TRACK VERSIONS)



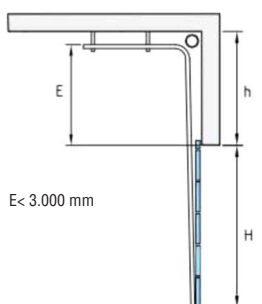
The sectional door tracks can be adapted to the existing lintel in the following three versions:

**Lintel types (tracks):**

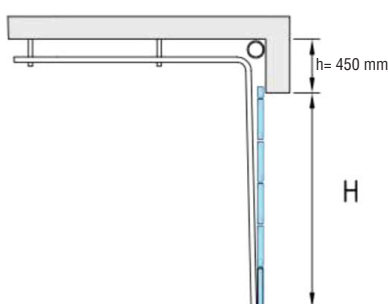
- . (S450): Standard lintel requiring approx. 450-500 mm headroom.
- . (H400): High lift configuration for high ceilings.
- . (V500): The door rises fully straight against the wall.
- . (N200): For very low ceilings.

**Track material:** Galvanised steel, 2 mm thick, with EPDM side sealing profiles.

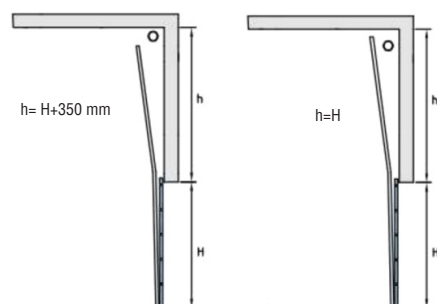
**Counterbalance system:** Galvanised or shot-peened torsion spring system, with a standard service life of 25,000–30,000 cycles (extendable to 50,000 or 100,000 cycles).



High lift:  
**Model H400**



Standard lift:  
**Model S450**



Vertical lift:  
**Model V500**

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### 5. CUSTOMISATION AND SAFETY OPTIONS

**Integrated pedestrian door:** With reinforced aluminium threshold (low threshold option of 22 mm available to comply with accessibility regulations).

Ventilation grilles, ventilated aluminium sections, special colours.

**Glazed aluminium sections (PRISMA-Novolux):** option to replace steel panels with fully glazed aluminium sections for maximum light transmission.

### 6. SAFETY

The ISD2 industrial sectional door complies with European safety standard EN 13241. It has been certified by the German TÜV institute.

- . Steel cables designed to withstand 6 times the weight of the door leaf.
- . Spring break safety device.
- . Cable break safety device.

Manufacture of electrically operated sectional doors in accordance with the standards for power-operated doors EN 12604, and the Machinery Directive.



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