Type ST
SINGLE AND DOUBLE LEAF HINGED DOORS FOR PLANT ROOMS, STORAGE ROOMS, AIR HANDLING UNITS, FILTER CHAMBERS, OR ENCLOSURES FOR MACHINERY OR ELECTRICAL EQUIPMENT

Rectangular single leaf or double leaf doors that are robust and ensure only minimal leakage even in case of large differential pressures

- Maximum width of 1100 mm, maximum height of 2115 mm
- Maximum pressure loading of 1000 Pa, in closing direction; reinforced construction for up to 2000 Pa
- Air leakage rate of approx. 0.6 l/s or 2 m³/h at 1000 Pa (for each door leaf)
- Reinforced door leaf for higher pressure loading
- Double skin door leaf made of galvanised sheet steel and with mineral wool infill
- Door frame made of angle sections or U-channel sections
- Two double lever locking devices, can be operated from both sides
- APT rubber seal, temperature resistant up to 90 °C
- Available in standard sizes and many intermediate sizes

Optional equipment and accessories

- Sound insulating lining
- Any combination of cylinder rim lock, mortice lock, pressure relief valve, inspection window and removable exterior locking levers
- Powder-coated for outdoor installation
Application

- Low-leakage steel doors of Type ST are used as separating elements for walk-in plant rooms, storage rooms, air handling units, filter chambers, or enclosures for machinery or electrical equipment.
- Robust construction with very low air leakage rate even in case of large differential pressures
- Powder-coated construction with increased corrosion resistance
- Maximum pressure on the opening side is 1000 Pa (2000 Pa for reinforced construction)

Special characteristics

- Variants with additional sound insulating lining (X construction variants) provide good sound absorption
- U-value: 1.02 W/(m²K) at 8 W/(m²K) for internal spaces (air not in motion) and 25 W/(m²K) for outside (air in motion)
- Optional door frame without fixing tabs (-21) but with flange holes
Variants

- ST: Low-leakage steel door
- ST-V: Low-leakage steel door with reinforced leaf
- ST-X: Low-leakage steel door with sound insulating lining
- ST-X-V: Low-leakage steel door with sound insulating lining and reinforcing elements
- ST-D: Double leaf low-leakage steel door
- ST-D-V: Double leaf low-leakage steel door with reinforced leaves
- ST-D-X: Double leaf low-leakage steel door with sound insulating lining
- ST-D-X-V: Double leaf low-leakage steel door with sound insulating lining and reinforcing elements
- R: Right hinge
- L: Left hinge

Attachments

- 11: Angle section frame with welded fixing tabs
- 13: U-channel frame 115 × 40 × 4 mm
- 15: U-channel frame 240 × 40 × 4 mm with welded fixing tabs
- 21: Angle section frame without fixing tabs
- Locks, inspection window, pressure relief valve, front locking lever: for the improvement and extension of the range of applications

Materials and surfaces

- Door leaf and stiffeners made of galvanised sheet steel
- Absorption material is mineral wool
- Door frame made of galvanised steel
- Double lever locking devices made of aluminium diecast
- APT rubber seal
- Sound absorbing Bitumen K57 slabs
- P1: Powder-coated, RAL CLASSIC colour
- PS: Powder-coated, NCS or DB colour

Mineral wool

- To DIN 4102, fire rating class A2, non-combustible
- RAL quality mark RAL-GZ 388
- Biosoluble and hence hygienically safe according to the German TRGS 905 (Technical Rules for Hazardous Substances) and EU directive 97/69/EG
- Inert to fungal and bacterial growth

INFORMACIÓN TÉCNICA
Functional description

Low-leakage steel doors are low-leakage separating elements for rooms or other enclosures.

When the door is being closed, i.e. when the double locking levers are being turned, the perimeter seal is fully pressed against the frame. As a consequence, the air leakage rate is extremely low even in case of high differential pressures.

**Schematic illustration of ST**
Low-leakage steel doors as separating elements for walk-in plant rooms, storage rooms, air handling units, filter chambers, or enclosures for machinery or electrical equipment.

Ready-to-install component that consists of a door leaf with double lever locking devices, absorption material, seal and hinges, and a frame.

Air leakage rate on the opening side is approx. 0.6 l/s or 2 m³/h at 1000 Pa (single leaf door).

Special characteristics
- Variants with additional sound insulating lining (X construction variants) provide good sound absorption
- U-value: 1.02 W/(m²K) at 8 W/(m²K) for internal spaces (air not in motion) and 25 W/(m²K) for outside (air in motion)
- Optional door frame without fixing tabs (-21) but with flange holes

Materials and surfaces
- Door leaf and stiffeners made of galvanised sheet steel
- Absorption material is mineral wool
- Door frame made of galvanised steel
- Double lever locking devices made of aluminium diecast
- APT rubber seal
- Sound absorbing Bitumen K57 slabs
- P1: Powder-coated, RAL CLASSIC colour
- PS: Powder-coated, NCS or DB colour

Mineral wool
- To DIN 4102, fire rating class A2, non-combustible
- RAL quality mark RAL-GZ 388
- Biosoluble and hence hygienically safe according to the German TRGS 905 (Technical Rules for Hazardous Substances) and EU directive 97/69/EG
- Inert to fungal and bacterial growth

Technical data
- Nominal sizes (single leaf): 400 × 800 – 1100 × 2115 mm
- Nominal sizes (double leaf): 1080 × 800 – 2280 × 2115 mm
- Maximum pressure on the opening side is 1000 Pa (2000 Pa for reinforced construction -V)
- Weighted sound reduction index (with sound absorbing infill): single leaf door 43 – 46 dB, double leaf door 44 – 47 dB, on the left and right of the wall opening 58 – 61 dB
TROX España

Ctra. Castellón, Km. 7
Pol. Ind. La Cartuja
E-50720 Zaragoza
Tel: +34 976 50 02 50
Fax + 34 976 50 09 04
Email:trox@trox.es

Servicios on-line:

- TROX Academy
- Contactos
- Formulario de contacto
- Mapa de situación
- Condiciones de venta y garantía
- TROX Plazos de entrega
- Certificado AENOR
- Certificado IQNet
- Certificado TÜV

Líneas telefónicas de atención:

Delegaciones comerciales
Contacto
Customer Service
+34 976 50 02 50
Contacto
Horario de atención al cliente Lunes a Jueves de 9 a 14 h y de 15h30 a 17h30, Viernes de 9 a 14 h

TROX EN REDES SOCIALES