



Performance characteristics

Fire resistance

T-90, "Allgemeine bauaufsichtliche Zulassung" Nr. Z 6.20-1937, DIBt Berlin

Combinable with additional performance characteristics:

Smoke control (optional)

tested acc. to DIN 18095 RS-1 / -2

Burglar resistance (optional)

RC4, RC3, RC2, RC1 acc. to DIN EN 1627 ff

Acoustic performance (optional)

up to RW (C;Ctr) = 53 (-1;-5) dB

acc. to EN ISO 10140-1 / EN ISO 10140-2 / EN ISO 7

Thermal transmittance

UD-value \geq 1,5 W/(m²K) acc. to EN ISO 10077-1

Air tightness (optional)

up to class 4 acc. to EN 12207 (up to 600 Pa)

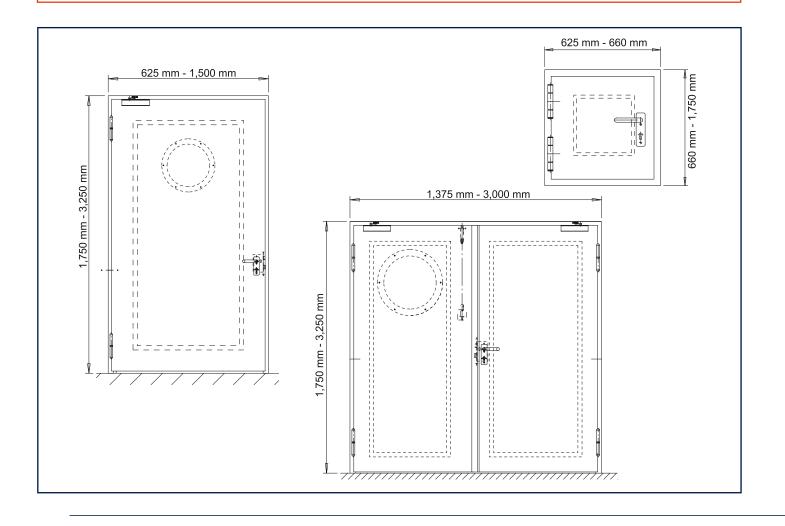
Resistance to positive and negative pressure (optional) up to 5.000 Pa acc. to DIN EN 12211

Flush with surface (optional)

flush-mounted design FLAT

Explosion protection (optional)

for installation in potentially explosive areas (ATEX)



Technical data

Dimensions single leaf (basic dimensions)

widht from 625 mm up to 1,500 mm height from 1,750 mm up to 3,250 mm

Dimensions double leaf (basic dimensions)

 widht
 from
 1.375 mm
 up to 3,000 mm

 height
 from
 1.750 mm
 up to 3,250 mm

Dimensions flap (basic dimensions)

widht from 625 mm up to 660 mm height from 660 mm up to 1,750 mm

Door leaf

leaf thickness 68 mm to 69 mm - smooth double-walled plate thickness 1.0 mm to 1.5 mm $\,$

thin rebate design optional thick rebate design

optional insulation inlet full-face glued and pressed with cover plate, thus particularly plane and smooth door leaf

Frame

framesystem "ZNG" (see installation variants) with flush clipped in Thelesol® fire protection strips and elastic rubber seal

corner frame

optional enclosing frame optional block frame

Floor seal

required for smoke control, acoustic performance, air tightness optional lowerable floor seal or sliding seal (patented)

Glas inset (optional)

glass dimensions and -form variable minimum frieze width: 130 mm optional with port-hole (ø ca. 450 mm clear view) glass inset bars with concealed screw connection (for rectangular glass inset)

Hinges

2/3-part KO door hinges

with patented easy-running bearings as easy running doors optional door hinge with 3D adjustment

Fittings sigle leaf

optional any approved handle set optional panic bar handle or push bar

Fittings double leaf

active leaf

optional any approved handle set acc. to EN 1906 resp. EN 179 optional panic bar handle or push bar acc. to EN 1125 EN 1125

for version RC: Protective fitting ES-1 up to ES-3

Locking single leaf

single locking acc. to DIN 18250

profile cylinder prepared (cylinder on-site)

securing pins

for version RC4: lock combination with triple locking optional panic locking acc. to EN 179 resp. EN 1125

Locking double leaf

active leaf

single locking according to EN 12209, depending on version multi-point locking profile cylinder prepared (cylinder on-site)

fixed leaf

internal snap bolt (locking upwards)

depending on version, with locking upwards and downwards

(rebate shoot bolt, shoot bolt lock) securing pins at both leafs

optional panic locking acc. to EN 179 resp. EN 1125

Self-closing single leaf

door closer acc. to DIN EN 1154

optional spring hinge for smaller doors / flaps optional hold-open system acc. to DIN EN 14637

Self-closing double leaf

both leafs with door closer acc. to EN 1154 resp. EN 1155 mit closing sequence control acc. to EN 1158

Installation

in maonry $(thk \ge 175 \text{ mm})$ in concrete $(thk \ge 140 \text{ mm})$ in aerated concrete $(thk \ge 150 \text{ mm})$ in mounting walls min. F90 $(thk \ge 100 \text{ mm})$ in encased steel columns min. F90 $(thk \ge 140 \text{ mm})$

optional blunt installation in soffit optional installation on the wall plate

approved for installation at great heights

(installation not at floor level: height on one or both sides > 500 mm above ground level - e.g. as manhole door/flap) with lower fire and smoke seal - also thresholdlesss

Marking

mark of conformity - "Ü" acc. to German conformity mark regulation

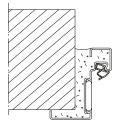
Optional

sock control
automated opening
motor locks (also in 3-way locking)
powder coating in RAL colours
prison cell doors (special locking and food flap)
special solutions according to request and customer
requirements

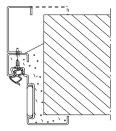
Installation variants

Installation in

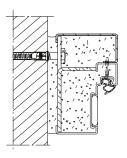
masonry / concrete



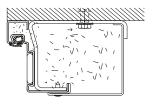
corner frame corner frame with supplementary frame



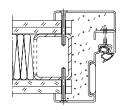
masonry / concrete



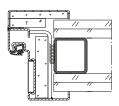
block frame corner frame with supplementary frame



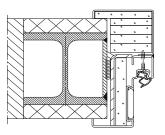
mounting walls



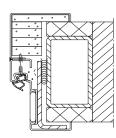
enclosing frame corner frame with supplementary frame



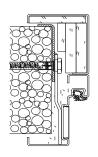
steel columns / steel supports



enclosing frame corner frame with supplementary frame



aerated concrete



enclosing frame corner frame with supplementary frame

