Technical information





fire-resistant steel door T30 tested according to DIN 4102-5 single leaf (TSN-1) and double leaf (TSN-2)

optional with fire-resistant glazing

optional in combination as smoke control door

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

optional in combination as burglar resistance door

RC1 to RC4 acc. to EN 1627

in combination as optional acoustic performance

up to R_W (C.C_{tr}) = 53 dB acc. to EN ISO 10140 / EN ISO 717-1

optional in combination with increased air tightness

up to classe 4 acc. to EN 12207















Performance characteristics

Fire resistance

T-30, "Allgemeine bauaufsichtliche Zulassung" Nr. Z 6.20-1909, 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 1,2 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)

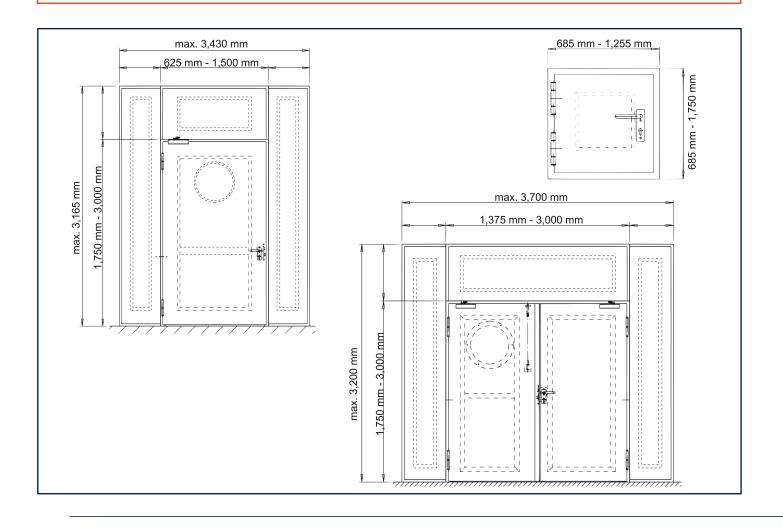
up to 5.000 Pa acc. to DIN EN 12211

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 3,000 mm
with overhead panel	total height		max. 3,165 mm
	height overhead panel		max. 1,000 mm
with side panels	total width		max. 3,430 mm
	width per side panel		max. 1.000 mm

Dimensions double leaf (basic dimensions)

	widht	from	1.375 mm	up to 3,000 mm
	height	from	1.750 mm	up to 3,000 mm
	with overhead panel	total height		max. 3,200 mm
with side panels		height overhead panel		max. 1,000 mm
		total width		max. 3,700 mm
		width per side panel		max. 1,000 mm

Dimensions flap (basic dimensions)

widht	from	685 mm	up to 1,255 mm
height	from	685 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: 90 mm optional with port-hole (ø ca. 450 mm clear view)

optional in overhead / side panel

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 EN1125 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 masonry	(thk ≥ 115 mm)
in concrete	(thk ≥ 100 mm)
in aerated concrete	(thk ≥ 175 mm)
in mounting walls min. F90	(thk ≥ 100 mm)
in encased steel columns min. F90	(thk ≥ 100 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 thresholdless

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

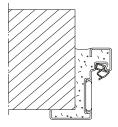
prison cell doors (special locking and food flap)
special solutions according to request and customer
requirements

The information given refers to the usual configurations. Individual configurations may be required when combining different performance characteristics.

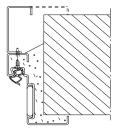
Installation variants

Installation in

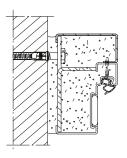
masonry / concrete



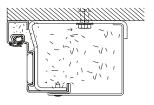
corner frame corner frame with supplementary frame



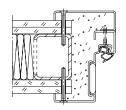
masonry / concrete



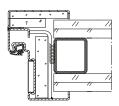
block frame corner frame with supplementary frame



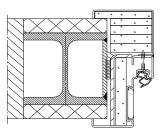
mounting walls



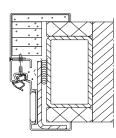
enclosing frame corner frame with supplementary frame



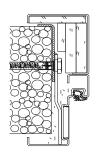
steel columns / steel supports



enclosing frame corner frame with supplementary frame



aerated concrete



enclosing frame corner frame with supplementary frame

