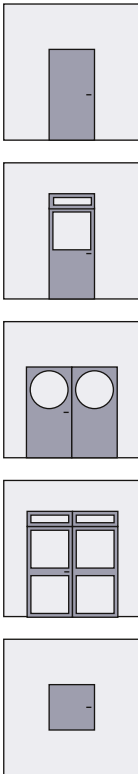


Technical information



Franzen ISN-1 / ISN-2 "System Schröders"

**Internal steel door
according to DIN ENV 14351-2 (Draft)
single leaf (ISN-1) and double leaf (ISN-2)**



Performance characteristics

CE-marked

possible after publication of standard DIN EN 14351-2

Combinable with additional performance characteristics

Air tightness (optional)

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

Thermal transmittance

UD-value $\geq 1,2 \text{ W}/(\text{m}^2\text{K})$ acc. to EN ISO 10077-1

Resistance to wind load (optional)

up to class C5 (up to 2,000 Pa) acc. to EN 12210

Watertightness (optional)

up to class 8A acc. to EN 12208

Resistance to positive and negative pressure (optional)

up to 5.000 Pa acc. to DIN EN 12211

Behaviour between different climates (optional)

class 2 (d + e) acc. to EN 12219 (deflection)

Ability to release (optional)

acc. to DIN EN 14351-1 proven for doors in escape and rescue routes

Flush with surface (optional)

flush-mounted design FLAT

Explosion protection (optional)

for installation in potentially explosive areas

Performance characteristics combinable with further Franzen door types "System Schröders":

Fire resistance (optional)

T90 acc. to "allg. bauaufsichtliche Zulassung" (fire door Franzen TSN-11 / TSN-12)

T30 acc. to "allg. bauaufsichtliche Zulassung" (fire door Franzen TSN-1 / TSN-2)

Smoke control (optional)

S_a / S_{200} tested according to EN 1634-3 (e.g. fire door Franzen TSN-4)

Burglar resistance (optional)

up to RC4 acc. to DIN EN 1627 ff

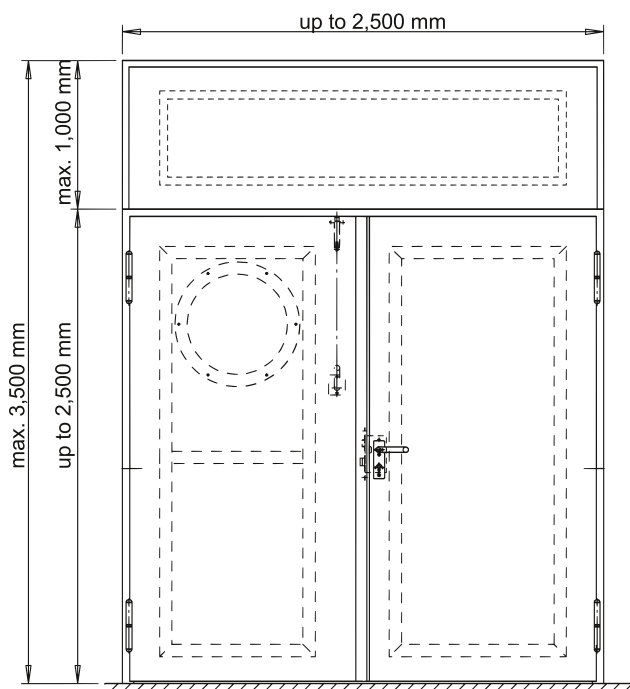
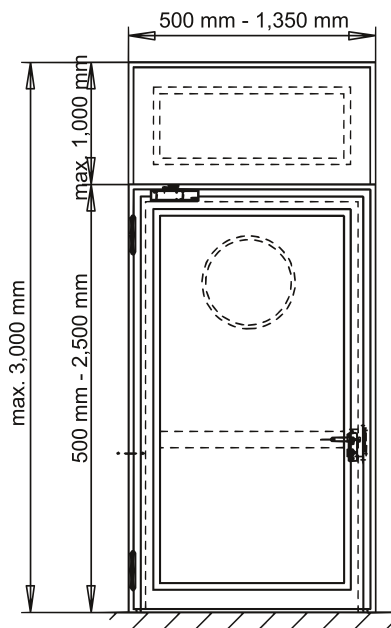
(e.g. burglar resistance door Franzen ESN-2)

Acoustic performance (optional)

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

acc. to EN ISO 10140-1 / EN ISO 10140-2 / EN ISO 717

(e.g. acoustic performance door Franzen SN-1)



Technical data

Dimensions single leaf (rough building dimension)

for performance characteristic airtightness, wind load resp.
positive and negative pressure limited to

width	from	500 mm	up to 1,350 mm
height	from	500 mm	up to 2,500 mm
with overhead panel	overall height		max. 3,000 mm
	height overhead panel		max. 1,000 mm

Dimensions double leaf (rough building dimension)

for performance characteristic airtightness, wind load resp.
positive and negative pressure limited to

width			up to 2,500 mm
height			up to 2,500 mm
with overhead panel	overall height		max. 3,500 mm
	height overhead panel		max. 1,000 mm

Overhead panel

optional with fixed overhead panel

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

Frame

frame system "ZNG" or "ZG" (see installation variants)
seal type depending on performance characteristic
elastic rubber seal
silicone seal
corner frame
optional enclosing frame
optional block frame

Floor seal

depending on performance characteristic
without seal
lowerable floor seal
stop seal

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 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

various fittings possible

Locking

various locking systems possible
profile cylinder prepared (cylinder on-site)

Self-closing single leaf (optional)

door closer acc. to DIN EN 1154
optional spring hinge for smaller doors / flaps

Self-closing double leaf (optional)

both leafs with door closer acc. to DIN EN 1154 resp. EN1155
with door closing sequence control acc. to EN1158

Installation

in masonry
in concrete
in aerated concrete
in mounting walls
in custom walls
optional blunt installation in soffit
optional installation on the wall plate

Marking

CE-marking only possible after publication of the
standard DIN EN 14351-2

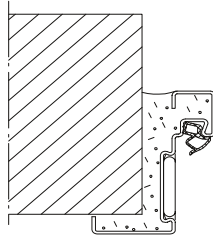
Optional

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 acc. to request and customer requirements

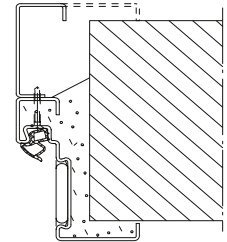
Installation variants

Installation in

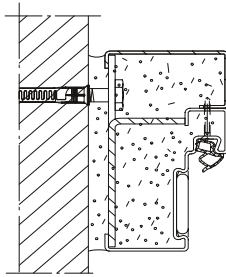
masonry /
concrete



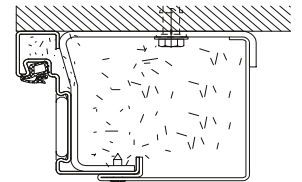
corner frame
corner frame with
supplementary frame



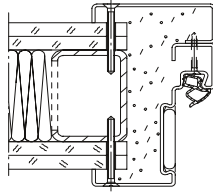
masonry /
concrete



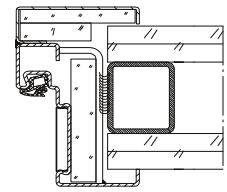
block frame
corner frame with
supplementary frame



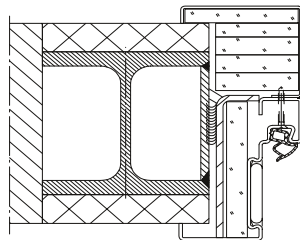
mounting walls



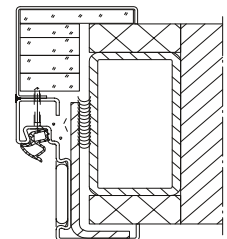
enclosing frame
corner frame with
supplementary frame



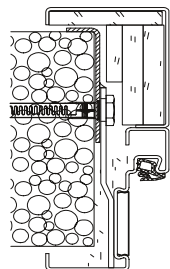
steel columns /
steel supports



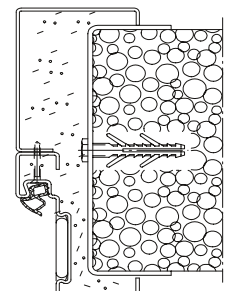
enclosing frame
corner frame with
supplementary frame



aerated concrete



enclosing frame
corner frame with
supplementary frame



FRANZEN
Feuerschutztüren