

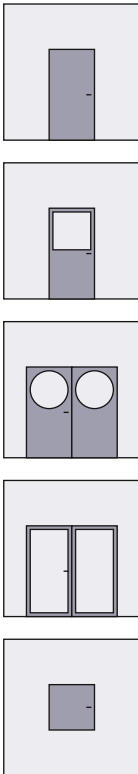
Technical information



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

**Acoustic performance steel door
according to EN ISO 10140-1, EN ISO 10140-2, EN ISO 717-1
single leaf (SN-1) and double leaf (SN-2)**

- acoustic performance single leaf up to $R_W (C;C_{tr}) = 53 \text{ dB} (-1;-5) \text{ dB}$
- acoustic performance double leaf up to $R_W (C;C_{tr}) = 48 \text{ dB} (-1;-5) \text{ dB}$



Performance characteristics

CE-marked

Acoustic performance

up to $R_{w}(C;C_{tr}) = 53$ (-1;-5) dB (single leaf)
 up to $R_{w}(C;C_{tr}) = 48$ (-1;-5) dB (double leaf)
 acc. to EN ISO 10140-1 / EN ISO 10140-2 / EN ISO 717

Thermal transmittance

UD-value $\geq 1,2$ W/(m²K) acc. to EN ISO 10077-1

Combinable with additional performance characteristics:

Installation in external walls (optional)

nach DIN EN 14351-1

Air tightness (optional)

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

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 (ATEX)

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

Fire resistance (optional)

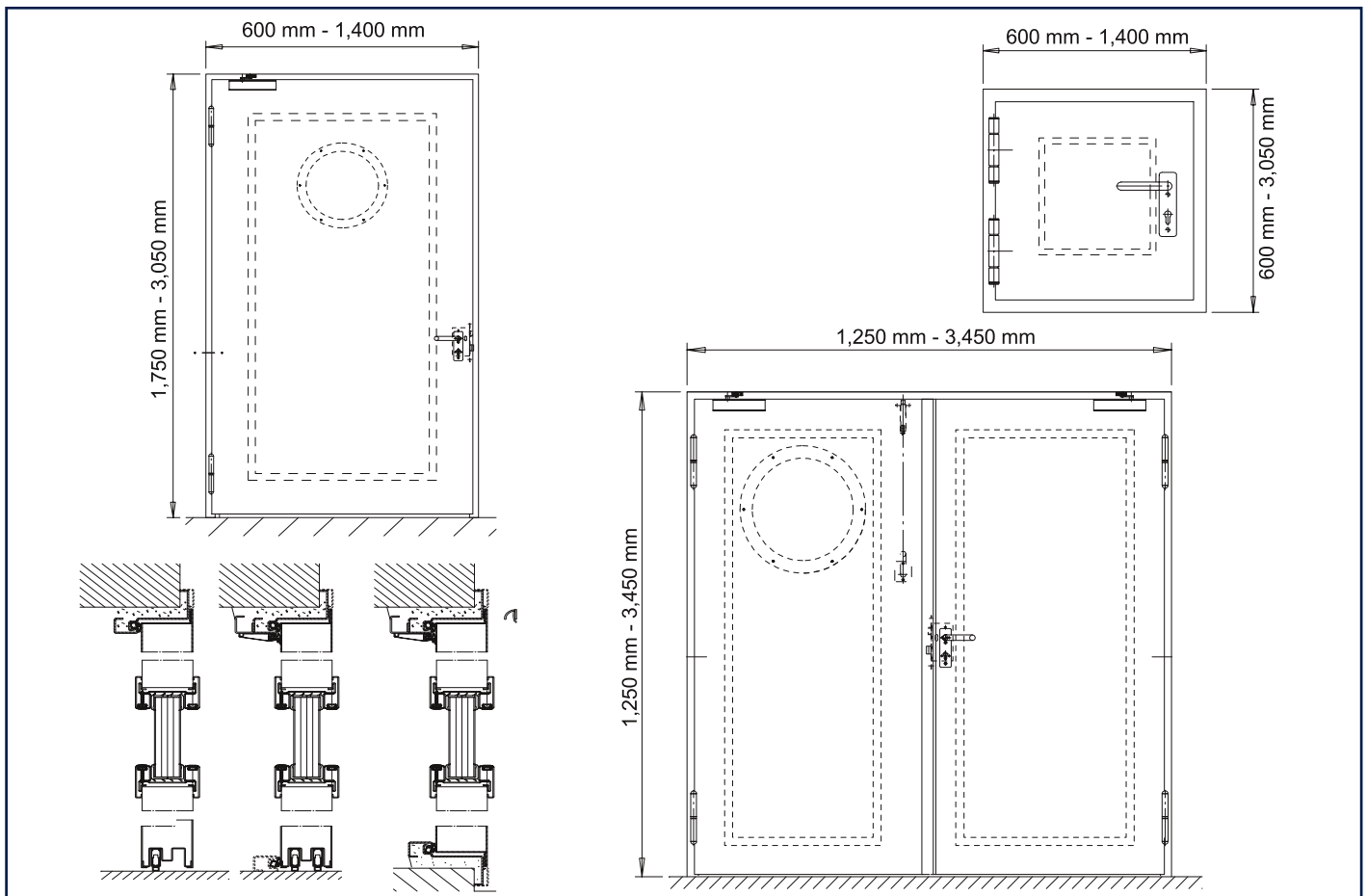
EI₂90, EI₂60, EI₂30 tested acc. to EN 1634-1 (e.g. fire door Franzen TSN-3)

Smoke control (optional)

S_a / S₂₀₀ tested acc. to EN 1634-3 (e.g. smoke control door Franzen RSN-1)

Burglar resistance (optional)

RC4, RC3, RC2, RC1 acc. to DIN EN 1627 ff (e.g. burglar resistance door Franzen ESN-2)



Technical data

Dimensions single leaf (basic dimensions)

width	from	600 mm	up to 1,400 mm
height	from	1,750 mm	up to 3,050 mm

Dimensions double leaf (basic dimensions)

width	from	1,250 mm	up to 3,450 mm
height	from	1,250 mm	up to 3,450 mm

Dimensions flap (basic dimensions)

width	from	600 mm	up to 1,400 mm
height	from	600 mm	up to 3,050 mm

Door leaf

leaf thickness 69 mm - smooth double-walled
 plate thickness 1.5 mm
 thin rebate design
 optional thick rebate design
 sandwich insulation filling

Frame

frame system "ZG" (see installation variants)
 corner frame
 optional enclosing frame
 optional block frame

Sealing system

depending on sound insulation value (see below)

Glas inset (optional)

glas dimensions and -form variable
 sound insulation glass ≥ 44 dB
 optional with port-hole
 glass inset bars with concealed screw connection (with rectangular glas inset)

Hinges

2/3-part KO door hinges
 with patented easy-running bearings as easy running doors
 optional door hinge with 3D adjustment

Fittings

optional any approved handle set
 optional panic bar handle or push bar acc. to EN 1125
 (for double leaf version panic fittings on both leaves)

Locking single leaf

single locking acc. to EN 12209,
 profile cylinder prepared (cylinder on-site)
 securing pins
 optional panic locking according to EN 179 resp. EN 1125

Locking double leaf

active leaf
 single locking acc. to DIN 12209
 profile cylinder prepared (cylinder on-site)
 fixed leaf
 internal snap bolt (locking upwards)
 securing pins at both leaves
 optional panic locking according to EN 179 resp. EN 1125

Self-closing single leaf

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

Self-closing double leaf

both leaves with door closer acc. to DIN EN 1154 resp. EN 1155
 with door closing sequence control acc. to EN 1158

Installation

wall acc. to acoustic performance requirements
 optional blunt installation in soffit
 optional installation on the wall plate

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

Sealing system (single leaf)

to R_{Wf} (C;C _{tr}) = 53 (-1;-5) dB*	1 x frame with threshold profile 4-sided, 1 x rebate lip seal, 1 x lowerable floor
to R_{Wf} (C;C _{tr}) = 52 (-1;-4) dB*	2 x frame, 2 x lowerable floor, 1 x rebate lip seal
to R_{Wf} (C;C _{tr}) = 48 (-1;-4) dB*	2 x frame, 1 x sliding with run-up threshold
to R_{Wf} (C;C _{tr}) = 46 (-2;-2) dB*	1 x frame, 2 x lowerable floor
to R_{Wf} (C;C _{tr}) = 45 (-1;-2) dB*	1 x frame, 1 x sliding with run-up threshold
to R_{Wf} (C;C _{tr}) = 45 (-1;-3) dB*	1 x frame with threshold profile 4-sided
to R_{Wf} (C;C _{tr}) = 43 (0;0) dB*	1 x frame, 1 x lowerable floor
to R_{Wf} (C;C _{tr}) = 42 (-1;-3) dB*	1 x frame, 1 x lowerable floor

Version with glass inset (single leaf)

to R_{Wf} (C;C _{tr}) = 52 (-1;-5) dB*	2 x frame, 1 x rebate lip seal, 2 x lowerable floor
to R_{Wf} (C;C _{tr}) = 49 (-1;-3) dB*	2 x frame, 2 x lowerable floor
to R_{Wf} (C;C _{tr}) = 47 (-1;-3) dB*	1 x frame with threshold profile 4-sided
to R_{Wf} (C;C _{tr}) = 46 (-2;-2) dB*	1 x frame, 2 x lowerable floor
to R_{Wf} (C;C _{tr}) = 44 (-1;-1) dB*	1 x frame, 1 x lowerable floor

Sealing system (double leaf)

to R_{Wf} (C;C _{tr}) = 48 (-1;-5) dB*	1 x frame with threshold profile 4-sided, 1 x rebate lip seal, per door leaf 1 x lowerable floor;
to R_{Wf} (C;C _{tr}) = 47 (-1;-4) dB*	1 x frame 3-sided., 1 x rebate lip seal, per door leaf 2 x lowerable floor;
to R_{Wf} (C;C _{tr}) = 45 (-1;-3) dB*	1 x frame, je Türflügel 2 x lowerable floor;
to R_{Wf} (C;C _{tr}) = 45 (0;-3) dB*	1 x frame with threshold profile 4-sided;
to R_{Wf} (C;C _{tr}) = 43 (-1;-2) dB*	1 x frame 3-stg., per door leaf 1 x lowerable floor;
to R_{Wf} (C;C _{tr}) = 39 (0;-1) dB*	1 x frame, sliding with run-up threshold

Version with glass inset (double leaf)

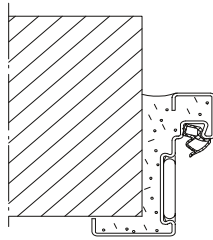
to R_{Wf} (C;C _{tr}) = 45 (-1;-3) dB*	1 x frame, per door leaf 2 x lowerable floor
to R_{Wf} (C;C _{tr}) = 42 (-1;-2) dB*	1 x frame, per door leaf 1 x lowerable floor

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

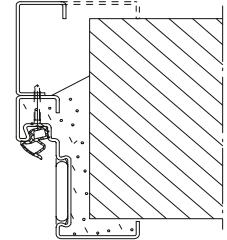
Installation variants

Installation in

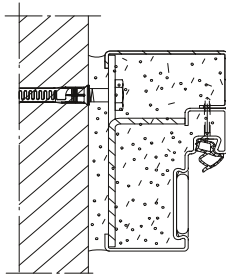
masonry /
concrete



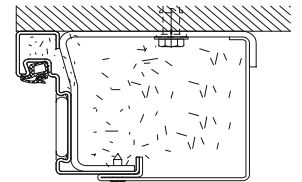
corner frame
corner frame with
supplementary frame



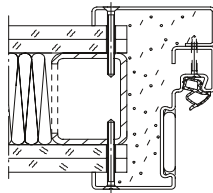
masonry /
concrete



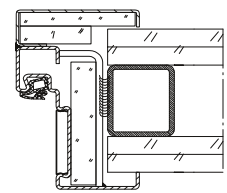
block frame
corner frame with
supplementary frame



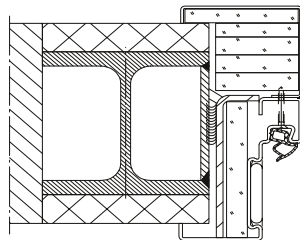
mounting walls



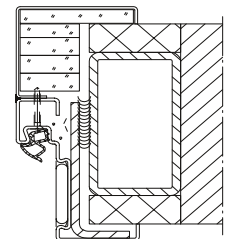
enclosing frame
corner frame with
supplementary frame



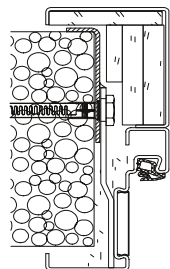
steel columns /
steel supports



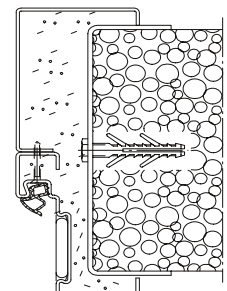
enclosing frame
corner frame with
supplementary frame



aerated concrete



enclosing frame
corner frame with
supplementary frame



FRANZEN
Feuerschutztüren