

Product overview



Content

2

General information 3

Multifunctional doors 10

Transformer station doors 20

Tunnel doors 24

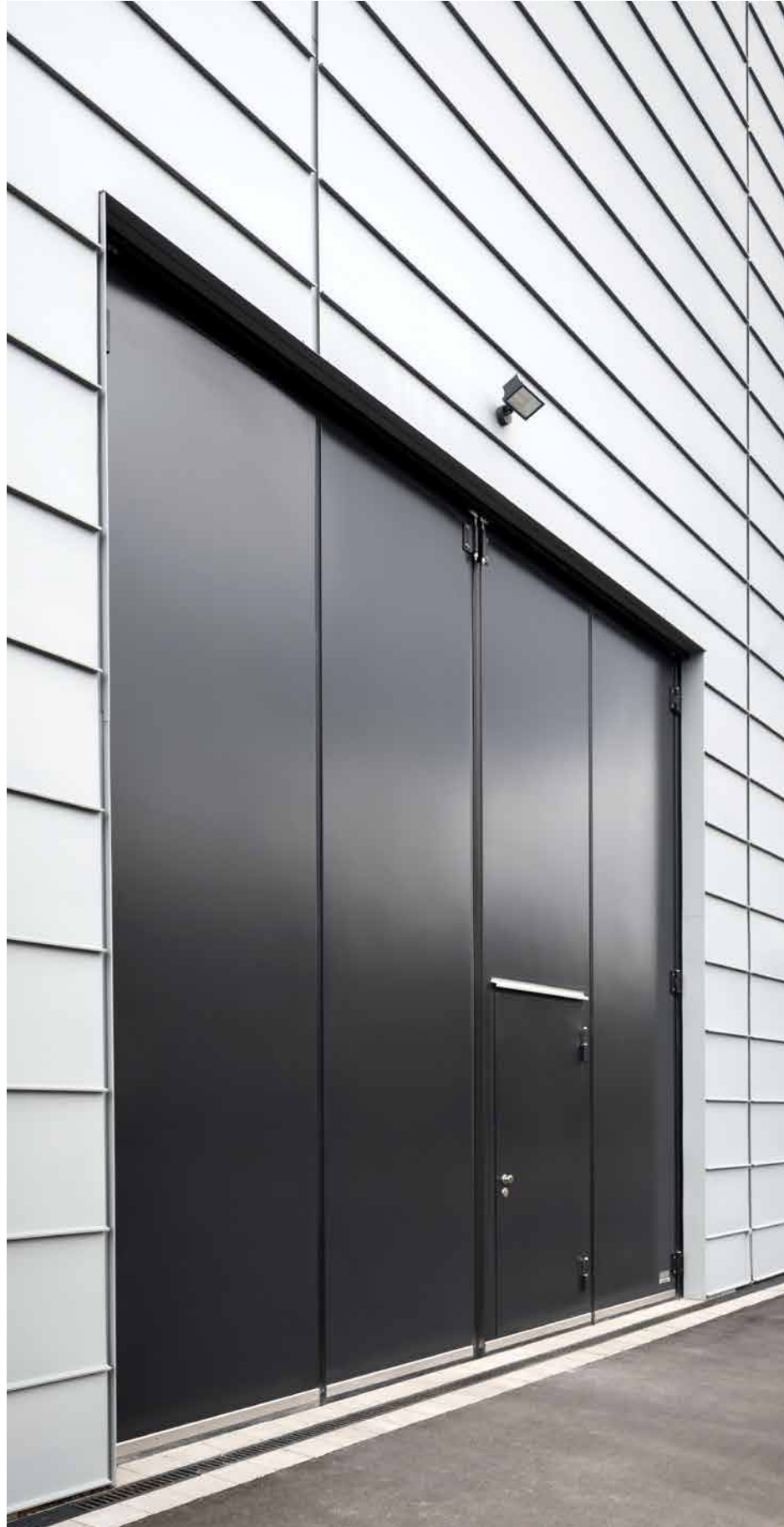
Special doors 30

Folding doors 32

Conveyor system closures 34

Control systems 38

Hold open systems 39



Hodapp GmbH & Co. KG from Achern-Großweier has been involved for many decades in the manufacture of special doors and gates that have to meet special requirements. In addition to an extensive range for special solutions, industry and tunnel construction, conveyor system closures are also manufactured.

We are certified!

The name Hodapp stands for outstanding quality. Our claim is to maintain and permanently expand our high international standard. Our ISO certifications confirm this.

DIN EN ISO 9001

Quality management systems

DIN EN ISO 14001

Environmental management systems

DIN ISO 45001

Occupational health and safety management systems

DIN EN ISO 50001

Energy management systems

KTA 1401

Certification for the quality requirements of nuclear safety

EN 1090-1

Factory production control

EN 1090-2

Execution of steel structures EXC1 - EXC4

DIN EN ISO 3834-2

Quality requirements for fusion welding of metallic materials

Certified welding supervisors

Welding engineer, welding specialist, penetrant inspector, visual inspector

Environmental Product Declaration (EPD)

Multifunctional door system HoSta



Central

Tel.: +49 7841 6006-0

E-Mail: info@hodapp.de

Doors and Gates Sales

E-Mail: vertrieb@hodapp.de

Sales conveyor system closures

E-Mail: faa@hodapp.de

Sales CNC sheet metal technology

E-Mail: cnc-blechtechnik@hodapp.de

Assembly, maintenance and service

E-Mail: service@hodapp.de

Servicehotline: +49 7841 6006-600

Hodapp

Assembly, service and maintenance

4

Your door and gate systems are in the best hands with us - with our experienced technicians, we guarantee professional installation as well as competent service and maintenance - safely and reliable.

- Qualified personnel for installation and service work
- Rapid support in case of need
- Manufacturer-independent service work
- Extensive fleet
- Modernisation of existing installations
- Annual safety inspections
- Maintenance to comply with the legally prescribed inspection intervals

You can reach our service hotline at:

+49 7841 6006-600 or send us an e-mail to: **service@hodapp.de**



Hodapp

International | References



Further Information:



Hodapp

Added value from a single source

6

We offer you customised complete solutions from a single source - „Made in Germany“. With more than 220 employees, you get the entire value-added process at Hodapp.

This includes:

- Product development
- Project management
- Construction
- Manufacturing
- Logistics
- Assembly, maintenance and service



CNC laser cutting centre

Our CNC laser offers complete processing by laser cutting, punching and forming

- Sheet metal formats up to 6.000 x 1.700 x 8 mm
- Sheet thickness up to 8 mm steel & stainless steel as well as 4 mm in aluminium



Storage of materials

Our warehouse has a large number of sheet metal in coil or sheet material.

- Steel and stainless steel in various grades and surfaces
- Strip galvanised sheets
- Aluminium und perforated sheet



Welding technology

Welding robots for serial parts as well as spot welding and stud welding in consistent quality with MIG/MAG/WIG welding systems.

>

- Welding qualifications:
DIN EN 1090 EXC 4 and DIN EN ISO 3824-2
also for stainless steels according to Z-30.3-6



Processing and surface finishing

We process materials through common work processes such as milling, turning, drilling and gluing.

Further possibilities:

- Cutting of sheets with a length of up to 6,000 mm
- The bending presses (up to 400 t) edge sheet thicknesses up to 12 mm
- Type of surface finishing:
 - Galvanised
 - Hot-dip galvanised
 - Painted

Our performance characteristics:



Fire protection



Smoke protection



Burglary-resistant



Explosion protection



Bullet-resistant



Radiation protection



Flood protection



Sound protection



Earthquake protection



Shock wave resistant



Air permeability



HPEM protection

Performance characteristics

A Hodapp door delivers what it promises

8



Fire protection

Fire protection is considered the supreme discipline among the performance characteristics, because here the focus is primarily on personal protection. The behaviour of the door in case of fire must ensure that the escaping persons have enough time to get to safety. Tested according to the European standard EN 1634-1.



Smoke protection

The main danger in case of fire is the development of smoke. Smoke gases are produced which can cause life-threatening poisoning. It is crucial that the door has the appropriate properties to fulfill this purpose in an emergency. Tested according to the European standard EN 1634-3

Performance characteristics

A Hodapp door delivers what it promises



Burglary resistant

Protection against burglary, and thus a threat to life and limb, has tended to increase in recent years. To ensure this function, we have developed our burglar-resistant doors. Due to the special design of the door, the resistance class up to RC-4 is achieved with only one main lock. Our products are manufactured according to the latest technology and are tested according to the European standard EN 1627.

Overview of resistance classes:

RC-2	The burglar attempts to gain access using simple tools such as screwdrivers, pliers and wedges. He tries to open the door with the screwdriver and the wedges. Exposed hinges are then attacked with a small hand saw. Resistance duration: 3 minutes
RC-3	The burglar is additionally equipped with a crowbar, a second screwdriver as well as various hand tools (e.g. small hammer, pin punch, mechanical drill). He can exert more force with the crowbar. The drilling tool can be used to attack susceptible closing devices. Resistance duration: 5 minutes
RC-4	The experienced burglar also uses a heavy hammer, an axe, a chisel and a battery drill, giving him a wider range of attacking possibilities. He is determined to gain access and is willing to take a higher risk. Resistance duration: 10 minutes



Sound protection

In our living space, we are confronted with noise sources every day. Protecting ourselves from it is a must, because unlike our health, noise does not subside. With this in mind, we have developed our HoSta soundproof doors with exceptionally high values up to 60 dB.



Ventilation grilles

Ventilation grilles can be installed in transformer or ventilation doors as well as in fixed elements. The result is excellent ventilation with protection against splash water and burglary.

For further details, see pages 20 to 23

Multifunctional doors and gates

Type HoSta | Indoor and outdoor application

10

Multifunctional doors



Further
Information:



Design details

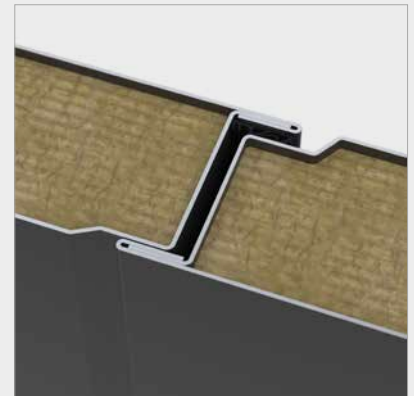
High-quality flush stainless steel striking plates with edge protection protect the frame and add visual highlights. For sophisticated architecture, the HoSta - multifunctional door is also available with a flush design, depending on the version.

3D-hinge

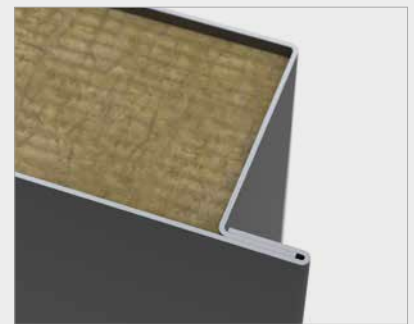
The newly developed state-of-the-art 3D hinges are designed for leaf weights of up to 300 kg. They can therefore carry the heavy sound proof or fire protection doors without a doubt. Furthermore, these hinges are completely maintenance-free and easy to replace when need be.

The adjustability of the 3D hinges makes it easy for the door to be perfectly fitted and installation tolerances can subsequently be levelled out.

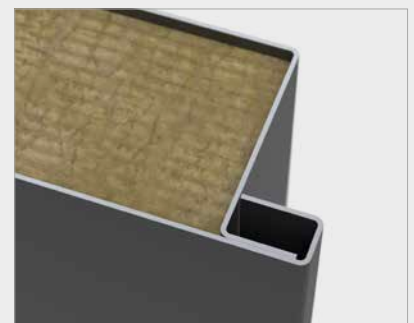
The hinges are available in both galvanised steel and top quality polished stainless steel. The particularly slim hinge sits perfectly on the door frame which makes mortising work on the shell unnecessary.



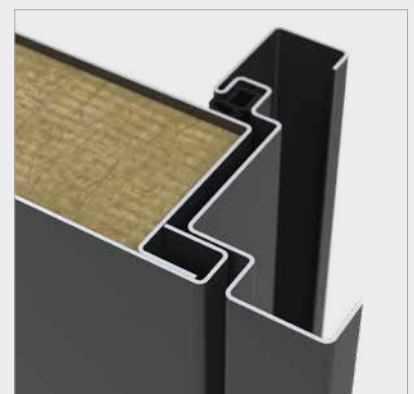
Flush center fold



Thin rebate



Thick rebate



Flush-fitting design



3D hinge, door closed



3D hinge, door open

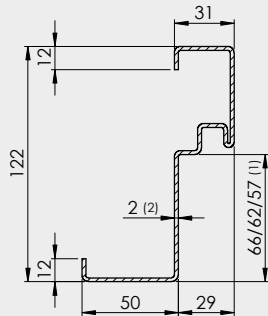
Multifunctional doors

Frame designs and accessories

12

The following selection of design options is available:

- Frame designs
- Glazings
- Fittings
- Hinges
- Door closer
- Earthing strap
- Electrical equipment
- Door drives
- Opening support



Note:



Overview of design options as PDF files via the QR code or at: [www.hodapp.de/product/multifunctional doors](http://www.hodapp.de/product/multifunctional%20doors)



Frameless-side glazing



Glass-holding frame



Fitting

Multifunctional doors

HoSta | Prison doors

Detention room doors are barrier-free security steel doors for use in police stations, courts, correctional facilities, forensic clinics and other detention cells. The double-walled, extremely torsion-resistant sheet steel door offers optimum protection against vandalism and escape attempts.

Field of application	Prisons		
	Forensics		
	Psychiatry		
Dimensions	Range of dimensions (CW)	Width	up to 1.500
		Height	up to 2.500
	Leaf thickness		70 - 72
	Sheet thickness		2,0 - 3,0
Performance characteristics	Fire protection		Design T30/EI ₂ 30
	Breakout resistance <i>EN 1627</i>		up to RC-4
Equipment features	Door leaf made of 2 or 3 mm sheet steel		
	Frame made of 2 or 2,5 mm sheet steel		
	Version with various types of high-security locks possible		
	Circumferentially bonded, hollow chamber-free frame seal		
	Food pass	Flush on both sides; scissorless; load capacity > 50 kg	
	Turning spy	States: Wide-angle peephole, pill pass-through, closed	
	Foot restraint flap, drawer bolt, viewing window, push plate, pull handle		

CW = Civil work

All dimensions in mm



Food pass | Closed



Food pass flap | Open

Multifunctional doors and gates

Product overview

14

Multifunctional doors













			Multipurpose		Air tightness / Heavy rain / wind load		Sound protection		
			1-leaf	2-leaf	1-leaf	2-leaf	1-leaf	2-leaf	
Dimensions	Range of dimensions (CW)	Width	from	500	1.000	500	1.000	500	1.000
			to	1.800	5.000	1.500	3.000	1.500	4.200
	Height	from	500	1.000	500	1.000	500	1.000	
		to	6.000	6.000	2.500	2.500	3.200	3.200	
Leaf thickness			69	69	69	69	69 / 106	69 / 106	
Sheet thickness			1,5	1,5	1,5	1,5	1,5	1,5	
Implementation	Galvanised steel primed / painted Stainless steel 304 L / 316 L		•	•	•	•	•	•	
	Glazing		•	•	•	•	•	•	
	Ventilation grilles		•	•	up to IP 43D	up to IP 43D	-	-	
	Side and/or top part		•	•	•	•	•	•	
	Thick or thin rebate		•	•	•	•	•	•	
Performance characteristics	Fire protection EN 13501-2 ⁽¹⁾		-	-	-	-	-	-	
	Smoke protection/Permanent function EN13501-2 ⁽¹⁾		-	-	-	-	-	-	
	Sound protection ISO 717-1		up to 37 dB	up to 39 dB	up to 37 dB	up to 39 dB	up to 54/60 dB	up to 51/54 dB	
	Air tightness EN 12207		-	-	up to class 4	up to class 4	up to class 4	up to Klasse 4	
	Water tightness EN 12208		-	-	up to class 9A	-	up to class 9A	-	
	Wind load resistance EN 12210		-	-	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	
	Burglary resistance EN 1627		-	-	-	-	-	-	
	Heat transfer coefficient ISO 10077	Steel (W/m²K)	$U_D \geq 1,5$	$U_D \geq 1,5$	$U_D \geq 1,5$	$U_D \geq 1,5$	$U_D \geq 1,8$	$U_D \geq 1,8$	
		Stainless steel (W/m²K)	$U_D \geq 1,0$	$U_D \geq 1,0$	$U_D \geq 1,0$	$U_D \geq 1,0$	$U_D \geq 1,3$	$U_D \geq 1,3$	
	Protection class EN 60529		-	-	up to IP 66	-	up to IP 66	-	
Bullet resistance EN 1522		-	-	-	-	-	-		
Frame variants	3- or 4-sided frame		•	•	•	•	•	•	
	Installation in masonry		•	•	•	•	•	•	
	Installation in reinforced concrete		•	•	•	•	•	•	
	Installation in cellular concrete		•	•	•	•	•	•	
	Installation in light partition walls		•	•	•	•	• ⁽²⁾	• ⁽²⁾	
	Installation in clad steel construction		•	•	•	•	•	•	

⁽¹⁾ Delivery after technical clarification ⁽²⁾ Wall according to requirement

Multifunctional doors and gates

Product overview

Burglary resistance Bullet resistance		Smoke protection		Fire protection EI ₂ 30		Fire protection EI ₂ 90		Fire protection EI ₂ 120	
1-leaf	2-leaf	1-leaf	2-leaf	1-leaf	2-leaf	1-leaf	2-leaf	1-leaf	2-leaf
									
500	1.000	500	1.000	500	1.150	450	1.000	650	-
1.850 / 2.650	3.700 / 5.250	1.700	3.150	1.500	3.050	1.900	2.500	1.600	-
1.000	1.000	500	1.000	550	1.000	500	1.000	1.050	-
5.250	5.250	2.950	2.950	2.750	2.750	4.000	3.500	2.550	-
69	69	69	69	69	69	69	69	69	-
1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	-
•	•	•	•	•	•	•	•	•	-
•	•	•	•	•	•	•	•	•	-
•	•	-	-	-	-	-	-	-	-
•	•	-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•	•	-
-	-	-	-	EI ₂ 30	EI ₂ 30	EI ₂ 90	EI ₂ 90	EI ₂ 120	-
-	-	S _a /S ₂₀₀ C5	S _a /S ₂₀₀ C0	S _a /S ₂₀₀ C5	S _a /S ₂₀₀ C0	S _a /S ₂₀₀ C5	S _a /S ₂₀₀ C0	S _a /S ₂₀₀ C5	-
up to 37 dB	up to 39 dB	up to 54 dB	up to 51 dB	up to 54 dB	up to 51 dB	bis 54 dB	up to 51 dB	up to 54 dB	-
up to class 4	up to class 4	up to class 4	up to class 4	up to class 4	up to class 4	up to class 4	up to class 4	up to class 4	-
up to class 9A	-	up to class 9A	-	up to class 9A	-	up to class 9A	-	up to class 9A	-
up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	up to CE 4000	-
up to RC-4	up to RC-4	up to RC-4	up to RC-4	up to RC-4	up to RC-4	up to RC-4	up to RC-4	up to RC-4	-
U _d ≥ 1,5	U _d ≥ 1,5	U _d ≥ 1,5	U _d ≥ 1,5	U _d ≥ 1,6	U _d ≥ 1,6	U _d ≥ 1,9	U _d ≥ 1,9	U _d ≥ 1,9	-
U _d ≥ 1,0	U _d ≥ 1,0	U _d ≥ 1,0	U _d ≥ 1,0	U _d ≥ 1,1	U _d ≥ 1,1	U _d ≥ 1,5	-	U _d ≥ 1,5	-
-	-	up to IP 66	-	up to IP 66	-	up to IP 66	-	up to IP 66	-
FB 4 / FB 6	FB 4	FB 4	-	FB 4	FB 4	FB 4	FB 4	-	-
•	•	•	•	•	•	•	•	•	-
≥ 115	≥ 115	≥ 115	≥ 115	≥ 125	≥ 125	≥ 175	≥ 175	≥ 175	-
≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 140	≥ 140	≥ 175	-
≥ 170	≥ 170	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	-	-
≥ 100 ⁽²⁾	≥ 100 ⁽²⁾	F30 / EI30	F30 / EI30	F90 / EI90	F90 / EI90	F90 / EI90	F90 / EI90	-	-
• ⁽²⁾	• ⁽²⁾	F30 / EI30	F30 / EI30	F90 / EI90	F90 / EI90	F90 / EI90	F90 / EI90	-	-

Multi-functional doors

• possible / - not possible CW = Civil works dimension AbP = general test certificate issued by the building authorities All dimensions in mm


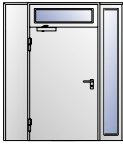
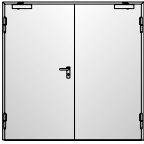
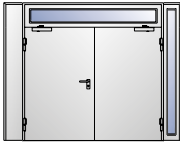
Fire protection hinge doors

System Schröders T30 | Indoor use

16

Multi-functional doors



		TSN-1	TSN-1 with side and top part	TSN-2	TSN-2 with side and top part	
						
Dimensions	Range of dimensions (CW)	Width	500 - 1.500	625 - 3.450	1.375 - 3.000	1.375 - 3.700
		Height	500 - 3.000	1.750 - 3.150	1.750 - 3.000	1.750 - 3.200
	Leaf thickness	69	69	69	69	
	Sheet thickness	1,5	1,5	1,5	1,5	
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L	•	•	•	•	
	Glazing	•	•	•	•	
	Side and/or top part	-	•	-	•	
	Thick or thin rebate	•	•	•	•	
Performance characteristics	Fire protection <i>DIN 4102-5</i>	T30	T30	T30	T30	
	Smoke protection <i>DIN 18095</i>	•	•	•	•	
	Sound protection <i>ISO 717-1</i>	up to 45 dB	up to 45 dB	up to 42 dB	up to 42 dB	
	Air tightness <i>EN 12207</i>	up to class 4	-	up to class 3	-	
	Water tightness <i>EN 12208</i>	up to class 8A	-	up to class 3A	-	
	Wind load resistance <i>EN 12210</i>	up to class C5	-	up to class C4	-	
	Burglary resistance <i>EN 1627</i>	up to RC-4	up to RC-2 with top part	up to RC-4	up to RC-2 with top part	
	Heat transfer coefficient <i>ISO 10077</i>	$U_D \geq 1,4 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 1,4 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 1,4 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 1,4 \text{ W}/(\text{m}^2\text{K})$	
Frame variants	Corner frame, wrap-around frame, block frame	•	•	•	•	
	3- or 4-sided frame	•	•	•	•	
	Installation in masonry	≥ 115	≥ 115	≥ 115	≥ 115	
	Installation in reinforced concrete	≥ 100	≥ 100	≥ 100	≥ 100	
	Installation in cellular concrete	≥ 175	≥ 175	≥ 175	≥ 175	
	Installation in assembly walls F90	≥ 100	≥ 100	≥ 100	≥ 100	
	Installation in clad steel construction	≥ 100	≥ 100	≥ 100	≥ 100	
Installation in fire resistant assembly walls with AbP	Wall thickness according to AbP	Wall thickness according to AbP	Wall thickness according to AbP	Wall thickness according to AbP		

Fire protection hinge doors

System Schröders T90 | Indoor use



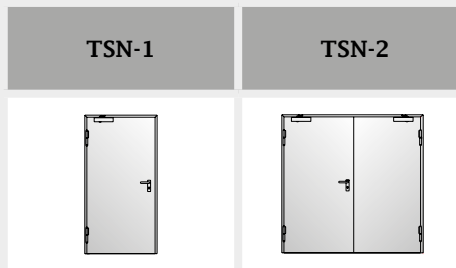
		TSN-11	TSN-12	THF Ceiling flap
Dimensions	Range of dimension (CW)	Width	500 - 1.500	1.375 - 3.250
		Height	500 - 3.250	1.750 - 3.000
	Leaf thickness	69	69	69
	Sheet thickness	1,5	1,5	1,0
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L	•	•	•
	Glazing	•	•	-
	Side and/or top part	-	-	-
	Thick or thin rebate	•	•	Thin rebate
Performance characteristics	Fire protection <i>DIN 4102-5</i>	T90	T90	T90
	Smoke protection <i>DIN 18095</i>	•	•	•
	Sound protection <i>ISO 717-1</i>	up to 45 dB	up to 42 dB	-
	Air tightness <i>EN 12207</i>	up to class 4	up to class 3	up to class 4
	Water tightness <i>EN 12208</i>	up to class 8A	up to class 3A	-
	Wind load resistance <i>EN 12210</i>	up to class C5	up to class C4	up to class C5
	Burglary resistance <i>EN 1627</i>	up to RC-4	up to RC-4	-
	Heat transfer coefficient <i>ISO 10077</i>	$U_D \geq 1,7 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 1,7 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 1,7 \text{ W}/(\text{m}^2\text{K})$
Frame variants	Corner frame, wrap-around frame, block frame	•	•	•
	3- or 4-sided frame	•	•	4-sided frame
	Installation in masonry	≥ 175	≥ 175	-
	Installation in reinforced concrete	≥ 140	≥ 140	≥ 140
	Installation in cellular concrete	≥ 175	≥ 175	-
	Installation in assembly walls F90	≥ 100	≥ 100	-
	Installation in clad steel construction	≥ 140	≥ 140	-
Installation in fire resistant assembly walls with AbP	Wall thickness according to AbP	Wall thickness according to AbPP	-	

Multi-functional doors

Fire protection hinge doors

System Schröders EI₂30 | Outdoor use/Gate

18

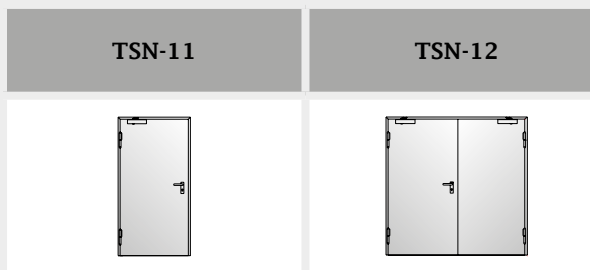


		TSN-1	TSN-2
Dimensions	Range of dimensions (CW)	Width	500 - 1.500
		Height	500 - 3.250
	Leaf thickness	69	69
	Sheet thickness	1,5	1,5
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L	•	•
	Glazing	•	•
	Side and/or top part	-	-
	Thick or thin rebate	•	•
Performance characteristics	Fire protection <i>DIN 4102-5</i>	EI ₂ 30	EI ₂ 30
	Smoke protection <i>DIN 18095</i>	S _a /S ₂₀₀ C5	S _a /S ₂₀₀ C5
	Sound protection <i>ISO 717-1</i>	up to 45 dB	up to 42 dB
	Air tightness <i>EN 12207</i>	up to class 4	up to class 3
	Water tightness <i>EN 12208</i>	up to class 8A	up to class 3A
	Wind load resistance <i>EN 12210</i>	up to class C5	up to class C4
	Burglary resistance <i>EN 1627</i>	up to RC-4	up to RC-4
Heat transfer coefficient <i>ISO 10077</i>	U _D ≥ 1,4 W/(m ² K)	U _D ≥ 1,4 W/(m ² K)	
Frame variants	Corner frame, wrap-around frame, block frame	•	•
	3- or 4-sided frame	•	•
	Installation in masonry	≥ 115	≥ 115
	Installation in reinforced concrete	≥ 100	≥ 100
	Installation in cellular concrete	≥ 150	≥ 150
	Installation in assembly walls F90	≥ 100	≥ 100
	Installation in clad steel construction	≥ 100	≥ 100
Installation in fire resistant assembly walls with AbP	Wall thickness according to AbP	Wall thickness according to AbP	

Multi-functional doors

Fire protection hinge doors

System Schröders EI₂90 | Outdoor use/Gate



		TSN-11	TSN-12
Dimensions	Range of dimension (CW)	Width	500 - 1.500
		Height	500 - 2.950
	Leaf thickness	69	69
	Sheet thickness	1,5	1,5
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L	•	•
	Glazing	•	•
	Side and/or top part	-	-
	Thick or thin rebate	•	•
Performance characteristics	Fire protection <i>DIN 4102-5</i>	EI ₂ 90	EI ₂ 90
	Smoke protection <i>DIN 18095</i>	S _a /S ₂₀₀ C5	S _a /S ₂₀₀ C5
	Sound protection <i>ISO 717-1</i>	up to 45 dB	up to 42 dB
	Air tightness <i>EN 12207</i>	up to class 4	up to class 3
	Water tightness <i>EN 12208</i>	up to class 8A	up to class 3A
	Wind load resistance <i>EN 12210</i>	up to class C5	up to class C4
	Burglary resistance <i>EN 1627</i>	up to RC-4	up to RC-4
Frame variants	Heat transfer coefficient <i>ISO 10077</i>	U _D ≥ 1,7 W/(m ² K)	U _D ≥ 1,7 W/(m ² K)
	Corner frame, wrap-around frame, block frame	•	•
	3- or 4-sided frame	•	•
	Installation in masonry	≥ 175	≥ 175
	Installation in reinforced concrete	≥ 140	≥ 140
	Installation in cellular concrete	≥ 175	≥ 175
	Installation in assembly walls F90	≥ 100	≥ 100
Installation in clad steel construction	≥ 140	≥ 140	
Installation in fire resistant assembly walls with AbP	Wall thickness according to AbP	Wall thickness according to AbP	

Multi-functional doors

Transformer station doors | Ventilation grilles



Transformer station doors

Further Information:



Transformer station doors | Ventilation grilles

Product overview

21

The transformer station door is a steel solid leaf door system specially developed for use in technical buildings, such as transformer stations, data centers and substations.

The need for such a door arose due to the fact that the electrical components inside these technical buildings must be supplied with sufficient fresh air.

A constant exchange of air is essential for the function of the components and prevents overheating of the electrical equipment.

For this purpose, ventilation grilles are integrated into the door leaf in various design options. The special feature of this product is its versatility in terms of possible areas of application.

The ideal solution for fresh air and security.

The following designs are also available:

- Aluminum in silver coloured (E6/EV1) anodized
- Steel primed or painted in RAL colour tone
- Stainless steel mill-finished, stainless steel polished grain 240



Stainless steel wire mesh



Anodized aluminum slats







Vanished steel slats

Transformer station doors

Product overview

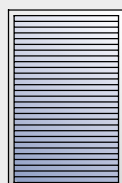
22



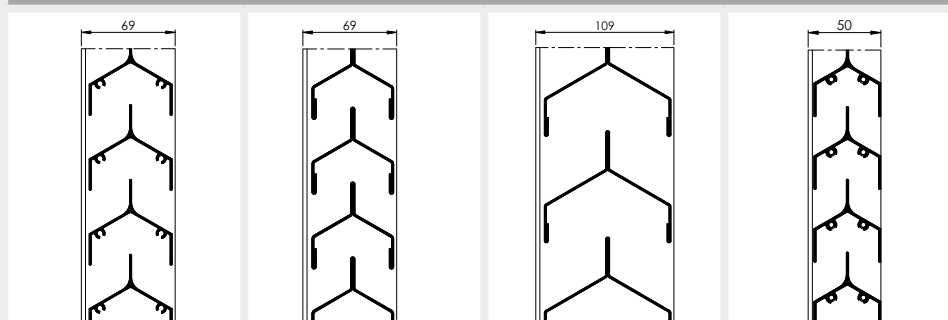
		TrafoSt-1	TrafoSt-2	TrafoAl-1	TrafoAl-2	
						
Dimensions	Range of dimensions	Width	500 - 1.500	1.000 - 3.000	500 - 1.500	1.000 - 3.000
		Height	500 - 3.000	500 - 3.000	500 - 3.000	500 - 3.000
	Leaf thickness	69	69	53 (single-walled) 55 (double-walled)	53 (single-walled) 55 (double-walled)	
	Sheet thickness	1,5	1,5	3 (outside) 1,5 (inside)	3 (outside) 1,5 (inside)	
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L	•	•	Aluminium	Aluminium	
	Glazing	•	•	-	-	
	Ventilation grilles	•	•	•	•	
	Pressure relief flap	•	•	•	•	
	Side and/or top part	•	•	only top part	only top part	
	Thick or thin rebate	•	•	-	-	
Performance characteristics	Water tightness <i>EN 12208</i>	-	-	-	-	
	Wind load resistance <i>EN 12210</i>	•	•	-	-	
	Explosion pressure	up to 6.000 Pa	up to 6.000 Pa	•	•	
	Burglary resistance <i>EN 1627</i>	up to RC-4	up to RC-4	-	-	
	Protetction class <i>EN 60529</i>	up to IP 43D	up to IP 43D	up to IP 43D	up to IP 43D	
	PEHLA certified	•	•	•	•	
Frame variants	corner frame, wrap-around frame, block frame, block frame in front of the wall	•	•	Square pipe	Square pipe	
	3- or 4-sided frame	•	•	•	•	
	Installation in masonry	≥ 125	≥ 125	≥ 100	≥ 100	
	Installation in reinforced concrete	≥ 100	≥ 100	≥ 100	≥ 100	
	Installation in cellular concrete	≥ 150	≥ 150	•	•	
	Installation in light partition walls	≥ 100	≥ 100	•	•	

Ventilation grilles

Product overview



TrafoLG



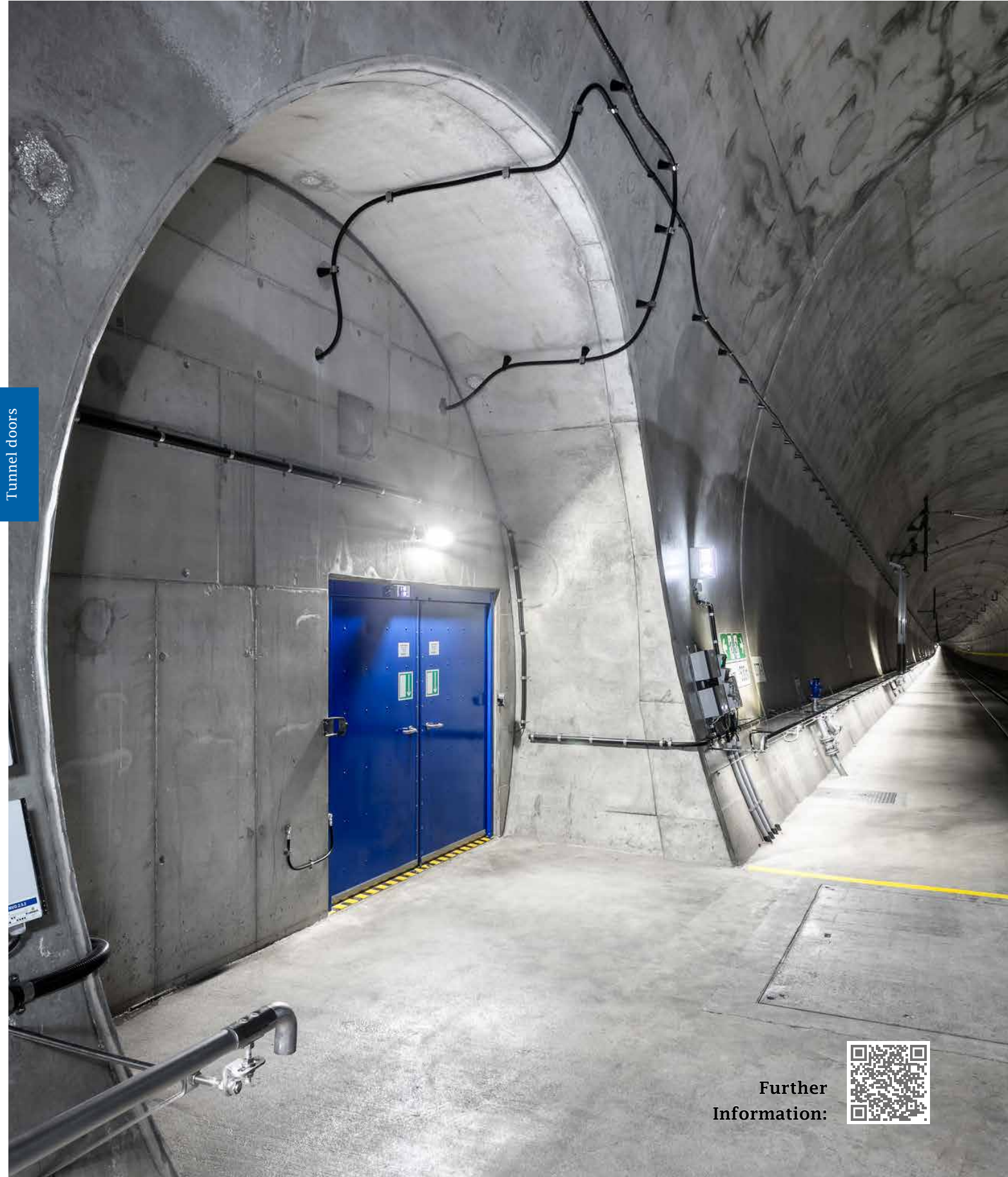
Dimensions	Range of dimensions (CW)	Width	300 - 4.350	300 - 4.350	300 - 1.500	300 - 1.500
	Height	300 - 3.000	300 - 3.000	300 - 3.000	300 - 3.000	300 - 3.000
Leaf thickness	69	69	109	50		
Sheet thickness	1,5	1,5	1,5	1,5		
Design	Frames	folded steel profil (galvanised steel primed / painted, stainless steel)			Aluminum Z-profile (natural / EV-1 anodised / powder coated)	
	Ventilation lamellas Y-shape (poke-proof)	Aluminum (natural / EV-1 anodised / powder coated)	Wrap-around frame (galvanised steel primed / painted, stainless steel)		Aluminum Z-profile (natural / EV-1 anodised / powder coated)	
	Ventilation cross section	up to 43 %	up to 47 %	up to 56 %	up to 38 %	
	Wire mesh Small animal protection VA MW 10 mm Insect protection Alu MW 1 mm	•	•	•	•	
Pressure relief flap	•	•	•	•		
Performance characteristics	Water tightness EN 12208	-	-	-	-	
	Wind load resistance EN 12210	•	•	•	•	
	Explosion pressure	up to 6.000 Pa	up to 6.000 Pa	up to 6.000 Pa	up to 3.000 Pa	
	Burglary resistance EN 1627	up to RC-2	up to RC-4	-	-	
	Protection class EN 60529	IP 23D / IP 43D	IP 23D / IP 43D	IP 23D / IP 43D	IP 23D / IP 43D	
	PEHLA certified EN 62271-202/EN	•	•	•	•	
	Ventilation characteristics	-	•	-	-	
Frame variants	corner frame, wrap-around frame, block frame, block frame in front of the wall	•	•	•	Angle frame from Z-profile	
	Installation in door type	TrafoSt	TrafoSt	TrafoSt	TrafoAL	
	Installation in masonry	•	•	•	•	
	Installation in reinforced concrete	•	•	•	•	
Installation in light cellular concrete	•	•	•	•		

Transformer station doors

Tunnel doors

Road and railway tunnels

24



Tunnel doors

Further
Information:



Tunnel doors

Product overview



		HTD		HPT		HoSta		
		1-leaf	2-leaf	1-leaf	2-leaf	1-leaf	2-leaf	
Dimensions	Range of dimensions (CW)	Width	500 - 1.750	1.000 - 3.500	650 - 1.550	1.400 - 3.000	500 - 1.500	1.000 - 3.050
		Height	1.700 - 2.600	1.750 - 2.600	1.600 - 2.350	1.700 - 2.350	500 - 3.200	1.000 - 3.500
	Leaf thickness		106	106	106	106	69	69
	Sheet thickness		1,5	1,5	1,5	1,5	1,5	1,5
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L		•	•	•	•	•	•
	Glazing		•	•	•	•	•	•
	Bidirectional opening		-	-	•	•	-	-
	Sash joint design		Thin rebate	Thin rebate	blunt	blunt	Thin rebate	Thin rebate
	Sash joint design		-	blunt	-	blunt	-	overlapped
	Pressure relief aid		•	•	-	-	•	•
Performance characteristics	Fire protection EN 13501-2		up to EI ₂ 120	up to EI ₂ 120	up to EI ₂ 120	up to EI ₂ 120	up to EI ₂ 120	up to EI ₂ 120
	Smoke protection EN 13501-2		S _a /S ₂₀₀	S _a /S ₂₀₀	S _a /S ₂₀₀	S _a /S ₂₀₀	S _a /S ₂₀₀	S _a /S ₂₀₀
	Permanent function EN 1191		up to C5	up to C5	C0	C0	up to C5	up to C5
	Certificate constancy of performance		EN 14351-1 EN 16034	EN 14351-1 EN 16034	EN 14351-1 EN 16034	EN 14351-1 EN 16034	EN 14351-1 EN 16034	EN 14351-1 EN 16034
	Pressure-suction resistance		up to ±10 kPa	up to ±10 kPa	up to ±10 kPa	up to ±10 kPa	up to ±2 kPa	up to ±2 kPa
	Load change		up to ±6 Mio.	up to ±6 Mio.	up to ±6 Mio.	up to ±6 Mio.	up to ±3 Mio.	up to ±3 Mio.
Frame variants	Escape route suitability		•	•	•	•	•	•
	3- or 4-sided frame		•	•	•	•	•	•
	Installation in masonry		≥ 200	≥ 200	≥ 200	≥ 200	≥ 175	≥ 175
	Installation in reinforced concrete		≥ 200	≥ 200	≥ 200	≥ 200	≥ 175	≥ 175

• possible / - not possible CW = Civil works dimension All dimensions in mm

Tunnel doors

Tunnel doors

Road and railway tunnels

26



Tunnel doors

Road and railway tunnels



		HTS	HFS	HTD	
		1-leaf	1-leaf	2-leaf	
Dimensions	Range of dimensions (CW)	Width	750 - 4.750	750 - 2.150	
		Height	1.750 - 3.750	1.750 - 2.300	
	Leaf thickness		128	62	123
	Sheet thickness		1,5	1,0	1,5
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L		•	•	•
	Automatic operation		-	-	•
	Pressure relief assistance		•	•	only wicket door
	Glazing		-	-	•
	With wicket door		-	-	•
Performance characteristics	Fire protection <i>EN 13501-2</i>		up to EI ₂ 120	up to EI ₂ 120	up to EI ₂ 120
	Smoke protection <i>EN 13501-2</i>		-	S _a / S ₂₀₀	S _a / S ₂₀₀
	Permanent function <i>EN 1191</i>		C0	C0	C0
	Certificate constancy of performance		in preperation	-	EN 13241 EN 16034
	Pressure-suction resistance		up to ±10 kPa	up to ±10 kPa	up to ±10 kPa
	Load change		up to ±6 Mio.	up to ±6 Mio.	up to ±3 Mio.
	Escape route suitability		•	•	•
Frame variants	3- or 4-sided frame		•	•	•
	Installation in masonry		≥ 200	≥ 200	≥ 175
	Installation in reinforced concrete		≥ 200	≥ 200	≥ 175

• possible / - not possible CW = Civil works dimension All dimensions in mm

More tunnel products

Emergency niche doors

28

In order to minimize the time of installation on the construction site, it is our permanent goal to maximize the degree of prefabrication of our products. This reduces errors and assembly times during installation on the construction site.

Based on this consideration, the emergency niche walls developed by Hodapp were created. The entire wall panel, including door and fire extinguisher compartment, is completely prefabricated at Hodapp, transported to the tunnel and then delivered to the designated location by forklift or crane. There, the concrete wall is then attached to the existing tunnel wall and the joints are mortared.



Emergency niche door

More tunnel products

Opening aid

The opening aid enables to open the door also at back-pressures up to 400Pa, with an opening force below 100N (EN 1125). The break pulse is triggered by the actuation of the door handle or panic bar by means of a micro switch. In case of upgrading, the door closer already in use can be maintained without any difficulty.

Performance characteristics	Range of dimensions (CW)	560 - 1.500
		1.700 - 2.600
	Opening direction	DIN Left/DIN Right
	Fire protection nach EN 1634-1	EI ₂ 120
	Door construction	Fire proof closures
		Smoke protection closures
		Doors for escape and rescue routes
	Material	Stainless steel 304 L / 316 L Galvanised steel primed / painted
Power supply	230/400V	
Control unit (24V-DC)	Where necessary, the use of potential free contacts or pressure switches can activate the opening mechanism. Thus, during normal operation there are no restrictions with regard to movement of persons and the self-closing property of the door is maintained.	



Opening aid

Special doors



Special doors

Further
Information:



When it comes to the design and manufacture of doors and gates to be used in unusual and highly sensitive areas, our special and custom doors have proven their worth. Our many years of experience in the construction of special doors guarantees you an individual and high-quality complete solution, which is developed, planned and manufactured according to your requirements and ideas.

Depending on the application, we manufacture doors and gates with the following performance characteristics:

Following designs are possible:

- Bullet resistant
- Pressure and suction resistant
- Pressure wave resistant
- Electrically opening
- EMV and HPEM shielded
- Flood proof
- Explosion and blast resistant
- Nuclear Engineering (EAS)
- Airtight
- Clean room
- Radiation protection
- Earthquake resistance
- XXL soundproof doors
- XXL doors

* The combination of these performance characteristics must be checked individually.

You can reach us at:

+49 7841 6006-600 or send us an e-mail to: vertrieb@hodapp.de



Radiation shielding door



Air lock door

Folding doors

Folding doors



Further
Information:



Folding doors

Product overview

The product group of folding doors includes three different door products: HFT-basic, HFT-classic and RFT. They can be designed and equipped in a variety of ways and thus perfectly match the architectural aesthetics of the building facade.



		HFT-classic	RFT
Dimensions	Range of dimensions (CW)	Width	2.500 - 12.000
		Height	2.500 - 5.500
	Door leaf width	800 - 1.500	800 - 1.500
	Possible configuration	1:2/2:1/1:3/3:1/2:2/2:3/ 3:2/3:3/3:4/4:3/4:4	1:2/2:1/1:3/3:1/2:2/2:3/ 3:2/3:3/3:4/4:3/4:4
	More variants	Multi-leaf sliding folding door	Multi-leaf sliding folding door
Depth	63	80	
Design	Material, steel sheet thickness Surface	1,5 / 2,0 / 3,0	Tubular profile 80/80/3 with rolled glazing bar
	Opening angle (manually operated)	up to 180°	up to 180°
	Opening angle (power operated)	90°	90°
	Glazing	Rectangular/round glazing Insulating glass as safety glass Glass thickness 24 - 46 mm	Rectangular glazing Insulating glass as safety glass Glass thickness 24 mm
	Types of drive system Configuration 2:2/90°	Semi-automatic - Fire department opening Power operated central drive - 1 jack screw drive per leaf package	Semi-automatic - Fire department opening Power operated central drive - 1 jack screw drive per leaf package
	Wicket door	possible, with/without threshold	possible, with/without threshold
	Divided walking wing	-	-
	Fittings	Surface mounted / Concealed shoot bolt	Concealed shoot bolt
Performance characteristics	Burglary protection <i>ENV 1627 - 1630</i>	WK 3, WK 4	WK 3
	Sound insulation <i>ISO 717-1</i>	up to 39 dB	25 dB
	Heat transfer coefficient <i>EN ISO 2567-1, EN 12428</i>	$U_D \geq 1,8 \text{ W}/(\text{m}^2\text{K})$	$U_D \geq 2,2 \text{ W}/(\text{m}^2\text{K})$
	Resistance to wind load <i>DIN EN 12424</i>	up to class 5, bzw. 2000 Pa	•
	Air permeability <i>EN 12427, EN 12426</i>	up to class 4	•
	Water tightness <i>EN 12489, EN 12425</i>	up to class 3/150 Pa	•
	Ventilation grille	•	•
Control	HPS-Motion II SPS-Control	HPS-Motion II SPS-Control	

Conveyor system closures



Conveyor system
closures

Further
Information:



Conveyor system closures

If conveyor systems pass through a fire wall, specially tested and approved „fire protection closures in the course of rail-bound conveyor systems“ are required. These closures seal wall openings through which, for example, conveyor systems such as roller, chain or belt conveyors or electric monorails are routed. In order to take into account the different construction types of the systems, the fire protection closures are individually adapted to the respective situation and the specific framework conditions. Thanks to the low door leaf thickness, the closures can be optimally used for separate conveyor systems. Alternatively, they can also be adapted for systems that lead through. In this case, an additional sealing element is added, which dissipates the heat from the conveyor system in the event of a fire. Depending on the requirements and product type, a surface with fire protection plates, sheet metal cladding or stainless steel is possible. This is also possible in the desired color if required. Re-opening of the closure is possible either manually or automatically with a drive.

Reliably opened and safely closed in case of fire.



Partitioning of a high-bay warehouse

Conveyor system closures

Product overview

36



		Sliding elements, single-leaf	Lifting/lowering elements, single-leaf	Hinged door, single-leaf
Wall opening	Width	200 - 3.600	200 - 3.600	600 - 1.200
	Height	200 - 3.400	200 - 3.400	700 - 3.500
Building inspectorate approval		Z- 6.6 -1993	Z- 6.6 -1993	Z- 6.6 -1994
Fire protection <i>DIN 4102-5 / EN 1366-7</i>		T90	T90	T90
Closing directions				
Design		<ul style="list-style-type: none"> · Sliding leaf optionally with or without sheet steel cladding (t=1,0mm) · Sliding leaf can be designed in segmental construction · Floor level or elevated installation position possible · Seperate and continous conveying systems possible 	<ul style="list-style-type: none"> · Sliding leaf optionally with or without sheet steel cladding (t=1,0 mm) · Sliding leaf can be designed in segmental construction · Floor level or elevated installation position possible · Seperate and continous conveying systems possible 	<ul style="list-style-type: none"> · Rotary leaf optionally with or without sheet steel cladding (t=1,0mm) · Conveyor system can be continous at the top or continous at the bottom · Floor level or elevated installation position possible · Seperate and continous conveying systems possible

All dimensions in mm

Conveyor system closures

Product overview



		Slider for ceiling and floor installation	Sliding elements, double leaf	Hinged doors, double leaf
Wall opening	Width	200 - 1.000	200 - 3.600	1.200 - 3.000
	Height	200 - 1.500	200 - 3.400	700 - 3.500
Building inspectorate approval		Z- 6.6 -1993	Z- 6.6 -1993	Z- 6.6 -1994
Fire protection <i>DIN 4102-5 / EN 1366-7</i>		T90	T90	T90
Closing directions				
Design		<ul style="list-style-type: none"> · Sliding leaf optionally with or without sheet steel cladding (t=1,0mm) · Use in cross-story conveyor systems · Application with small space conditions · Installation position on or under the ceiling possible · Various types of continous conveyor systems possible · Seperate and continous conveying systems possible 	<ul style="list-style-type: none"> · Sliding leaf optionally with or without sheet steel cladding (t=1,0mm) · Asymmetrical leaf arrangement possible · Conveyor profile can be continous at the top or bottom, as well as in floor level or elevated installation position · Various types of continous conveyor systems possible · Seperate and continous conveying systems possible 	<ul style="list-style-type: none"> · Hinged leaf wahlweise mit oder ohne Stahlblechverkleidung (t=1,0mm) · Asymmetrical leaf arrangement possible · Conveyor profile can be continous at the top or bottom, as well as in floor level or elevated installation position · Tested with thermally unseperated, continous aluminum conveyor profile (EHB rail) · Seperate and continous conveying systems possible

All dimensions in mm

Standard solutions HPS | Special solutions SPS

Our electrotechnical department realizes your technical requirements in the field of door and gate control. The development, programming, control and control and switch cabinet construction from one source.



SPS-Control II

**Further
Information:**



Hold open system | HPS-ADVANCED

The approved module combines the system components of the triggering device, power supply, evaluation of the fire detectors as well as operating elements and status displays.

The modular design allows flexible adaption to the requirements through the integration of the optional override control and the backup power supply.

An individual adaption of the system to the termination is possible via the system's own configuration software.

Potential-free interfaces are available for the communication with the conveyor system, as well as with a fire alarm system.

For service purposes a removable data carrier for system data and error memory is integrated.

Optionally, the central unit can be equipped with an additional operating point and, if necessary, a graphic display for status and error indication.



Central unit



Control panel including display

**Further
Information:**



Hodapp GmbH & Co. KG
Großweierer Straße 77
D-77855 Achern
Tel.: +49 7841 6006-0
info@hodapp.de

www.hodapp.de

