HODAPP
Doors that matter.

Product overview

Content

Hodapp

Expertise for your safety

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, color penetrant tester, visual inspector

Environmental Product Declaration (EPD)
Multifunctional door

Central
Tel.: +49 7841 6006-0
E-Mail: info@hodapp.de

Sales doors and gates
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
Service hotline: +49 7841 6006-600

Hodapp

Assembly, service and maintenance

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 | Subsidiaries

DE

Hodapp GmbH & Co. KG | Headquarters
Grossweierer Strasse 77 | 77855 Achern | Germany
E-Mail: info@hodapp.de | Phone: +49 7841 6006-0

AT

Hodapp Austria GmbH
Am Wirtschaftspark 10 / 1.OG | A-8700 Leoben | Austria
E-Mail: office@hodapp.at | Phone: +43 3842 24040-0

CH

Hodapp Schweiz GmbH
Föhrenweg 4 | CH-4665 Oftringen | Schwitzerland
E-Mail: info@hodapp.ch | Phone: +41 62 5349069

FR

Hodapp France SARL
245, rue de la Candia | F-73800 Arbin | France
E-Mail: info@hodapp.fr | Phone: +33 479 449939

Hodapp

Added value from a single source

We offer you customised complete solutions from a single source - „Made in Germany“.
With more than 240 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 centres

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 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:

Performance characteristics

A Hodapp door keeps its promise

Fire resistance

Fire resistance 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 and certified according to European standards EN 1634-1, EN13501-2 and EN 16034.

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 and certified according to the European standards EN 1634-3, EN 13501-2 and EN 16034.

Performance characteristics

A Hodapp door keeps its promise

Burglary resistance

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.

KEINBRUCH – Benannt im polizeilichen Herstellerverzeichnis für geprüfte und zertifizierte einbruchhemmende Produkte.

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

Further Information:

Design details

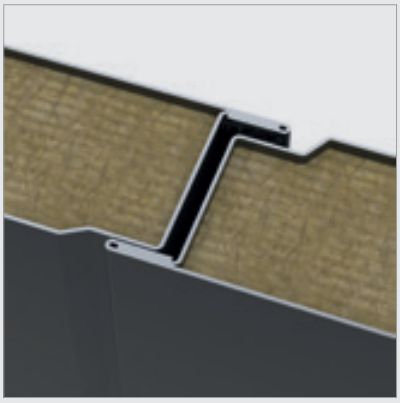
High-quality flush stainless steel striking plates protect the frame and add visual highlights. For sophisticated architecture, the HoSta - multifunctional door is also available with a flush design, depending on the version.

3D-hinge

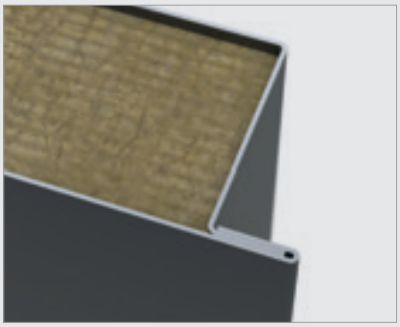
The newly developed state-of-the-art 3D hinges are designed for leaf weights of up to 300 kg. They can therefore carry the heavy sound proof or fire protection doors without a doubt. Furthermore, these hinges are completely maintenance-free and easy to replace when need be.

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

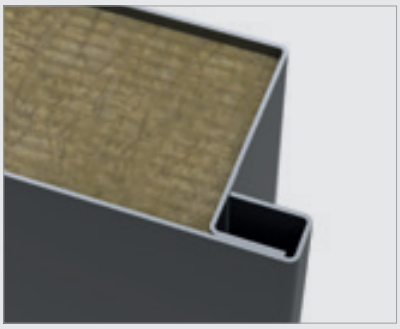
The hinges are available in both galvanised steel and top quality polished stainless steel. The particularly slim hinge sits perfectly on the door frame which makes mortising work on the shell unnecessary.



Flush center fold



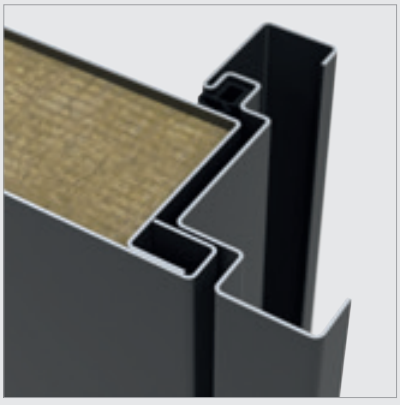
Thin rebate



Thick rebate

3D hinge, door closed

3D hinge, door open



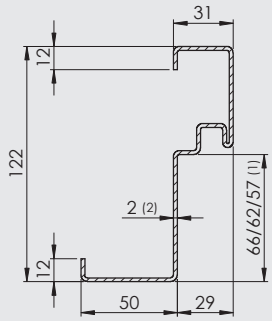
Flush-fitting design

Multifunctional doors

Frame designs and accessories

The following selection of design options is available:

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



Note:

Overview of design options as PDF files via the QR code

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, courts**		
	Forensics, police stations		
	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 *EN 1627*		up to RC-4
Equipment features	**Door leaf made of 2,0 or 3,0 mm sheet steel**		
	Frame made of 2,0 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	
	Shackle 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

				Air tightness / Heavy rain / wind load		Sound protection		Burglary resistance Bullet resistance	
				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	1.500	3.000	1.500	4.200	1.850 / 2.650	3.700 / 5.250
		Height	from	500	1.000	500	1.000	1.000	1.000
			to	2.500	2.500	3.200	3.200	5.250	5.250
	Leaf thickness			69	69	69 / 106	69 / 106	69	69
	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 resistance *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 54/60 dB	up to 51/54 dB	up to 37 dB	up to 39 dB
	Air tightness *EN 12207*			up to class 4	up to class 4	up to class 4	up to classe 4	up to class 4	up to class 4
	Water tightness *EN 12208*			up to class 9A	-	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	up to CE 4000	up to CE 4000
	Burglary resistance *EN 1627*			-	-	-	-	up to RC-4	up to RC-4
	Heat transfer coefficient *ISO 10077*	Steel	(W/m²K)	$U_D \geq 1,5$	$U_D \geq 1,5$	$U_D \geq 1,8$	$U_D \geq 1,8$	$U_D \geq 1,5$	$U_D \geq 1,5$
		Stainless steel	(W/m²K)	$U_D \geq 1,0$	$U_D \geq 1,0$	$U_D \geq 1,3$	$U_D \geq 1,3$	$U_D \geq 1,0$	$U_D \geq 1,0$
	Protection class *EN 60529*			up to IP 66	-	up to IP 66	-	-	-
	Bullet resistance *EN 1522*			-	-	-	-	FB 4 / FB 6	FB 4
Frame variants	3- or 4-sided frame			•	•	•	•	•	•
	Installation in masonry			•	•	•	•	≥ 115	≥ 115
	Installation in reinforced concrete			•	•	•	•	≥ 100	≥ 100
	Installation in cellular concrete			•	•	•	•	≥ 170	≥ 170
	Installation in light partition walls			•	•	• [2]	• [2]	≥ 100 [2]	≥ 100 [2]
	Installation in clad steel construction			•	•	•	•	• [2]	• [2]

[1] Delivery after technical clarification [2] Wall according to requirement

Multifunctional doors and gates

Product overview

Smoke protection		Fire resistance $EI_2$30		Fire resistance $EI_2$60		Fire resistance $EI_2$90		Fire resistance $EI_2$120	
1-flg.	2-flg.	1-flg.	2-flg.	1-flg.	2-flg.	1-flg.	2-flg.	1-flg.	2-flg.
									
500	1.000	500	950	500	1.000	450	950	650	–
1.700	3.150	1.700	3.050	1.900	3.050	1.900	2.500	1.600	–
500	1.000	550	1.700	550	1.700	500	1.700	1.050	–
2.950	2.950	4.400	3.400	4.000	3.400	4.000	3.500	2.550	–
69	69	69 / 70	69	69 / 70	69	69 / 70	69	69	–
1,5	1,5	1,5 / 2,0	1,5	1,5 / 2,0	1,5	1,5 / 2,0	1,5	1,5	–
•	•	•	•	•	•	•	•	•	–
•	•	•	•	•	•	•	•	•	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
•	•	•	•	•	•	•	•	•	–
–	–	$EI_2$30	$EI_2$30	$EI_2$60	$EI_2$60	$EI_2$90	$EI_2$90	$EI_2$120	–
S_{a3} /S_{200} C5	S_{a3} /S_{200} C0	S_{a3} /S_{200} C5	S_{a3} /C0	S_{a3} /S_{200} C5	S_{a3} /C0	S_{a3} /C5	S_{a3} /S_{200} C0	S_{a3} /S_{200} C5	–
up to 54 dB	bis 51 dB	bis 54 dB	bis 51 dB	bis 54 dB	bis 51 dB	bis 54 dB	bis 51 dB	bis 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 ≥ 1,6	U_D ≥ 1,6	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 ≥ 1,1	U_D ≥ 1,1	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	–	up to IP 66	–
FB 4	–	FB 4	FB 4	FB 4	FB 4	FB 4	FB 4	–	–
•	•	•	•	•	•	•	•	•	–
≥ 115	≥ 115	≥ 125	≥ 125	≥ 175	≥ 175	≥ 175	≥ 175	≥ 175	–
≥ 100	≥ 100	≥ 100	≥ 100	≥ 140	≥ 140	≥ 140	≥ 140	≥ 175	–
≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	–	–
F30 / EI30	F30 / EI30	F90 / EI90	F90 / EI90	F60 / EI60	F60 / EI60	F90 / EI90	F90 / EI90	-	–
F30 / EI30	F30 / EI30	F90 / EI90	F90 / EI90	F60 / EI60	F60 / EI60	F90 / EI90	F90 / EI90	-	–

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

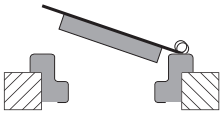
Fire protection hinge doors

T30 | Indoor use

			TSN-1	TSN-1 with side and/or top part	TSN-2	TSN-2 with side and/or top part
						
Dimensions	Range of dimensions (CW)	Width	500 – 1.500	625 – 3.450	1.375 – 3.000	1.375– 3.700
		Height	500 – 3.250	1.750 – 3.150	1.750 – 3.250	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** *DIN 4102-5*		T30	T30	T30	T30
	Smoke protection *DIN 18095*		•	•	•	•
	Sound protection *ISO 717-1*		up to 49 dB	-	up to 45 dB	-
	Air tightness *EN 12207*		up to class 4	-	up to class 3	-
	Water tightness *EN 12208*		up to class 8A	-	up to class 4A	-
	Wind load resistance *EN 12210*		up to class C5	-	up to class C4	-
	Burglary resistance *EN 1627*		up to RC-4	up to RC-2 with top part	up to RC-4	up to RC-2 with top part
	Heat transfer coefficent *ISO 10077*		$U_D \geq 1{,}4$ W/(m²K)	$U_D \geq 1{,}4$ W/(m²K)	$U_D \geq 1{,}4$ W/(m²K)	$U_D \geq 1{,}4$ W/(m²K)
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

T90 | Indoor use

			TSN-11	TSN-12	THF Ceiling flap
					
Dimensions	Range of dimension (CW)	Width	500 – 1.500	1.375 – 3.000	500 – 1.100
		Height	500 – 3.250	1.750 – 3.250	500 – 1.350
	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** *DIN 4102-5*		T90	T90	T90
	Smoke protection *DIN 18095*		•	•	•
	Sound protection *ISO 717-1*		up to 49 dB	up to 45 dB	–
	Air tightness *EN 12207*		up to class 4	up to class 3	up to class 4
	Water tightness *EN 12208*		up to class 8A	up to class 4A	–
	Wind load resistance *EN 12210*		up to class C5	up to class C4	up to class C5
	Burglary resistance *EN 1627*		up to RC-4	up to RC-4	–
	Heat transfer coefficient *ISO 10077*		$U_D \geq 1{,}7$ W/(m²K)	$U_D \geq 1{,}7$ W/(m²K)	$U_D \geq 1{,}7$ W/(m²K)
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 AbP	–

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

Fire protection hinge doors

$EI_2$30 | Outdoor use/Gate

			TSN-1	TSN-2
				
Dimensions	Range of dimensions (CW)	Width	600 – 2.300	1.375 – 4.250
		Height	500 – 4.600	1.750 – 4.250
	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 resistance *EN 13501-2*		$EI_2$30	$EI_2$30
	Smoke protection *EN 13501-2*		S_{a3} /S_{200} C5	S_{a3} /S_{200} C5
	Sound protection *ISO 717-1*		up to 49 dB	up to 45 dB
	Air tightness *EN 12207*		up to class 4	up to class 3
	Water tightness *EN 12208*		up to class 8A	up to class 4A
	Wind load resistance *EN 12210*		up to class C5	up to class C4
	Burglary resistance *EN 1627*		up to RC-4	up to RC-4
	Heat transfer coefficient *ISO 10077*		$U_D \geq 1{,}4$ W/(m²K)	$U_D \geq 1{,}4$ W/(m²K)
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

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

Fire protection hinge doors

$EI_2$90 | Outdoor use/Gate

			TSN-11	TSN-12
				
Dimensions	Range of dimension (CW)	Width	500 – 1.450	1.375 – 3.250
		Height	710 – 2.950	1.750 – 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 resistance** *EN 13501-2*		$EI_2$90	$EI_2$90
	Smoke protection *EN 13501-2*		S_{a3} /S_{200} C5	S_{a3} /S_{200} C5
	Sound protection *ISO 717-1*		up to 49 dB	up to 45 dB
	Air tightness *EN 12207*		up to class 4	up to class 3
	Water tightness *EN 12208*		up to class 8A	up to class 4A
	Wind load resistance*EN 12210*		up to class C5	up to class C4
	Burglary resistance *EN 1627*		up to RC-4	up to RC-4
	Heat transfer coefficient *ISO 10077*		$U_D \geq 1{,}7$ W/(m²K)	$U_D \geq 1{,}7$ W/(m²K)
Frame variants	**Corner frame, wrap-around frame, block frame**		•	•
	3- or 4-sided frame		•	•
	EInstallation 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

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

Transformer station doors | Ventilation grilles

Further Information:

Transformer station doors | Ventilation grilles

Product overview

The transformer station door: a versatile solution for technical buildings

The transformer station door was specially developed for use in technical buildings such as transformer stations, data centres and substations.

In addition, the aluminium door variant is excellently suited for factory-built AC stations, both walk-in and non-walk-in.

This full-leaf door system meets the highest standards of functionality and security. Particularly in facilities where a constant supply of fresh air is essential, the door impresses with integrated ventilation grilles in a range of designs.

These ensure the necessary air exchange, which prevents overheating and ensures the reliable operation of the electrical components.

Thanks to its versatility, the transformer station door is an optimal solution for a wide range of applications.

Perfect balance between air supply and safety

The transformer station door is available in the following material variants:

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

This product diversity ensures that the door can be perfectly matched to requirements.

Stainless steel wire mesh

Anodized aluminium slats

Vanished steel slats

Transformer station doors

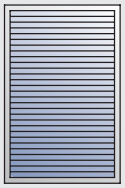
Product overview

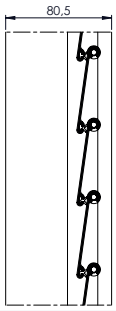
			TrafoSt-1	TrafoSt-2	TrafoAl-1	TrafoAl-2
						
Dimensions	Range of dimensions (CW)	Width	500 – 1.500	1.000 – 3.000	500 – 1.500	1.000 – 3.000
		Height	500 – 3.000	500 – 3.000	500 – 3.000	500 – 3.000
	Leaf thickness		69	69	67	67
	Sheet thickness		1,5	1,5	2	2
Design	Galvanised steel primed / painted Stainless steel 304 L / 316 L		•	•	Aluminium	Aluminium
	Glazing		•	•	–	–
	Ventilation grilles		•	•	•	•
	Pressure relief flap		•	•	•	•
	Side and/or top part		•	•	•	•
	Thick or thin rebate		•	•	Flush design	Flush design
Performance characteristics	Water tightness *EN 12208*		–	–	–	–
	Wind load resistance *EN 12210*		•	•	–	–
	Explosion pressure		up to 6.000 Pa	up to 6.000 Pa	•	•
	Burglary resistance *EN 1627*		up to RC-4	up to RC-4	–	–
	Protetction class *EN 60529*		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	•	•

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

Ventilation grilles

Product overview



			TrafoLG			Pressure relief flap
						
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
	Leaf thickness		69	69	109	80,5
	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 %	–
	Wire mesh Small animal protection VA MW 10 mm Insect protection Alu MW 1 mm		•	•	•	–
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 6.000 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	–
	PEHLA certified *EN 62271-202/EN*		•	•	•	•
	Ventilation characteristics		–	•	–	–
Frame variants	corner frame, wrap-around frame, block frame, block frame in front of the wall		•	•	•	•
	Installation in door type		TrafoSt	TrafoSt	TrafoSt	TrafoSt / TrafoAL
	Installation in masonry		•	•	•	•
	Installation in reinforced concrete		•	•	•	•
	Installation in light cellular concrete		•	•	•	•

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

Tunnel doors

Road and railway tunnels

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_2120	up to EI_2120	up to EI_2120	up to EI_2120	up to EI_2120	up to EI_2120
	Smoke protection *EN 13501-2*		S_{a3} /S_{200}	S_{a3} /S_{200}	S_{a3} /S_{200}	S_{a3} /S_{200}	S_{a3} /S_{200}	S_{a3} /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.
	Escape route suitability		•	•	•	•	•	•
Frame variants	**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

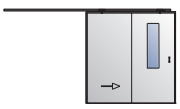
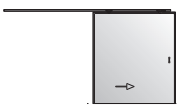
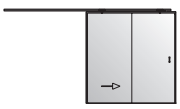
Tunnel doors

Road and railway tunnels

Further Information:

Tunnel doors

Road and railway tunnels

			HFS		HTS	HTD
			1-leaf	1-leaf	1-leaf	2-leaf
						
Dimensions	Range of dimensions (CW)	Width	500 – 3.000	500 – 1.400	750 – 4.750	1.400 – 4.200
		Height	1.500 – 3.200	1.500 – 2.200	1.750 – 3.750	2.000 – 4.900
	Leaf thickness		69	62	128	123
	Sheet thickness		1,5	1,0	1,5	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 resistance *EN 13501-2*		up to $EI_2$30	up to $EI_2$120	up to $EI_2$120	up to $EI_2$120
	Smoke protection *EN 13501-2*		–	S_{a3} /S_{200}	–	–
	Permanent function *EN 1191*		C0	C0	C0	C0
	Certificate constancy of performance		in preperation	-	in preperation	EN 13241 EN 16034
	Pressure-suction resistance		up to ±2 kPa	up to ±2 kPa	up to ±10 kPa	up to ±10 kPa
	Load change		up to ±1 Mio.	up to ±6 Mio.	up to ±6 Mio.	up to ±3 Mio.
	Escape route suitability		•	•	•	only with wicket door
Frame variants	3- or 4-sided frame		•	•	•	•
	Installation in masonry		≥ 175	≥ 200	≥ 200	≥ 175
	Installation in reinforced concrete		≥ 140	≥ 200	≥ 200	≥ 175

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

More tunnel products

Emergency niche doors

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

Electromechanical opening assistance

The electromechanical opening assistance 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 resistance *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.

Electromechanical opening assistance

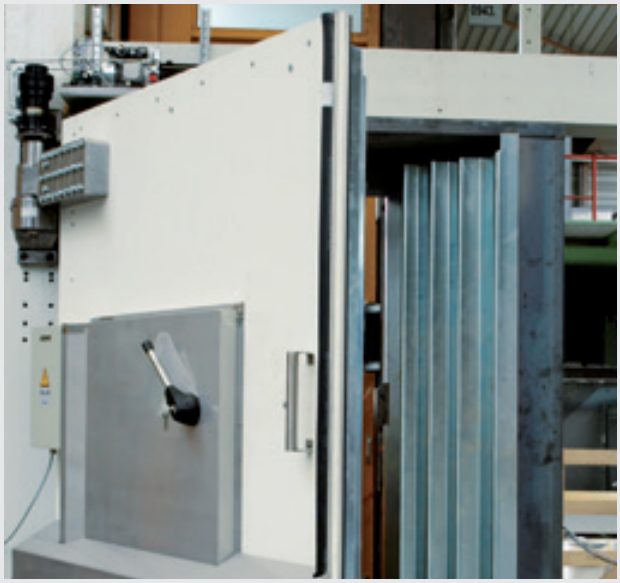
• possible / – not possible CW = Civil works dimension All dimensions in mm

Special doors

Further Information:

Special doors

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.



Radiation shielding door

Air lock door

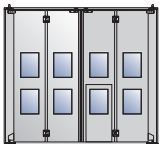
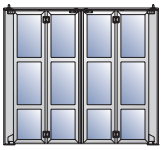
Folding doors

Further Information:

Folding doors

Product overview

The product group of folding doors includes two different door products: 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	2.500 – 12.000
		Height	2.500 – 5.500	2.500 – 6.000
	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 *ENV 1627 - 1630*		WK 3, WK 4	WK 3
	Sound insulation *ISO 717-1*		up to 39 dB	25 dB
	Heat transfer coefficient *EN ISO 2567-1, EN 12428*		$U_D \geq 1{,}8$ W/(m²K)	$U_D \geq 2{,}2$ W/(m²K)
	Resistance to wind load *DIN EN 12424*		up to class 5, bzw. 2000 Pa	•
	Air permeability *EN 12427, EN 12426*		up to class 4	•
	Water tightness *EN 12489, EN 12425*		up to class 3/150 Pa	•
	Ventilation grille		•	•
	Control		HPS-Motion II | SPS-Control	HPS-Motion II | SPS-Control

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

Conveyor system closures

Further Information:

Conveyor system closures

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.

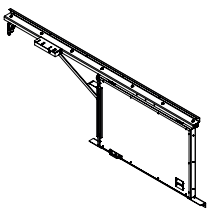
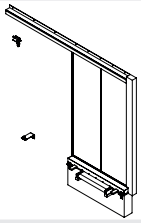
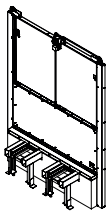
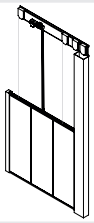
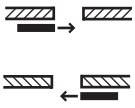
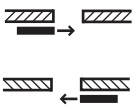
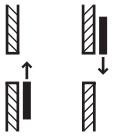
This is also possible in the desired color if required. Re-opening of the closure is possible either manually or automatically with a drive.

Reliably opened and safely closed in case of fire.

Partitioning of a high-bay warehouse

Conveyor system closures

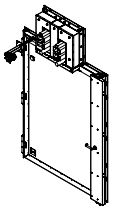
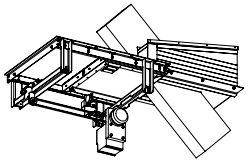
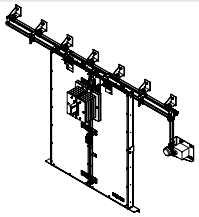
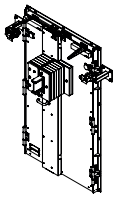
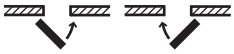
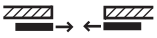
Product overview

		Sliding elements, single-leaf		Lifting elements, single-leaf	
					
Wall opening	**Width**	200 – 3.600	400 - 4.540	200 – 3.600	400 - 6.900
	Height	200 – 3.400	400 - 4.850	200 – 3.400	400 - 5.700
Approval		Z- 6.6 -1993	ETA-22/0585	Z- 6.6 -1993	ETA-22/0585
Fire resistance		T90	EI_2120	T90	EI_2120
Closing directions					
Design		· Sliding leaf optionally with or without sheet steel cladding · Sliding leaf can be designed in segmental construction · Floor level or elevated installation position possible · Seperate and continous conveying systems possible	· Sliding leaf with sheet steel cladding · Sliding leaf can be designed in segmental construction · Floor level or elevated installation position possible · Seperate and continous conveying systems possible	· Sliding leaf optionally with or without sheet steel cladding · Floor level or elevated installation position possible · Seperate and continous conveying systems possible	· Sliding leaf with sheet steel cladding · Sliding leaf can be designed in segmental construction · Floor level or elevated installation position possible · Seperate and continous conveying systems possible

All dimensions in mm

Conveyor system closures

Product overview

		Hinged door, single-leaf	Slider for ceiling and floor installation	Sliding elements, double leaf	Hinged doors, double leaf
					
Wall opening	**Width**	600 – 1.200	**200 – 1.000**	200 – 3.600	1.200 – 3.000
	Height	700 – 3.500	**200 – 1.500**	200 – 3.400	700 – 3.500
Approval		Z- 6.6 -1994	**Z- 6.6 -1993**	Z- 6.6 -1993	Z- 6.6 -1994
Fire resistance		T90	**T90**	T90	T90
Closing directions					
Design		· Rotary leaf optionally with or without sheet steel cladding · 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	· Sliding leaf optionally with or without sheet steel cladding · 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	· Sliding leaf optionally with or without sheet steel cladding · 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	· Hinged leaf optionally with or without sheet steel cladding · 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 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
Doors that matter.

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

www.hodapp.de