





Multi-Functional Doors for Construction Projects

Sturdy internal doors

Secure apartment entrance doors (T30 / RC 2)

Fully glazed office doors

External doors with thermal break







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* Up to 30 % better thermal insulation in comparison with a common multi-purpose door / security door.

Image on left

Internal doors OIT with beech surface finish and stainless steel frame

The colours and surface finishes shown are subject to the limitations of the printing process and cannot be regarded as binding.

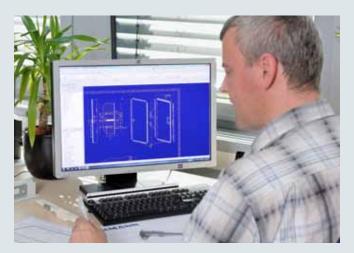
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Hörmann brand quality

Top safety and reliability



Keller & Kalmbach GmbH, Hilpoltstein with Hörmann products



In-house product development

Growing and constantly changing functional and safety requirements necessitate continuous new construction / equipment developments and improvements, especially when it comes to moveable construction components such as doors. In this area, our qualified development teams time and again prove their great specialised expertise.



Highly sophisticated production methods

Hörmann relies on the latest production technology at highly specialised factories. Computer-controlled operations ensure dimensionally accurate elements with perfectly fitted fittings and functional parts.



As Europe's leading manufacturer of doors, hinged doors, frames and operators, we are committed to high product and service quality. This is how we set standards on an international scale.

Highly-specialised factories develop and manufacture construction components that are characterised by excellent quality, functional safety and a long service life.

Our presence in the global economy's key regions makes us a strong, future-oriented partner for industrial and public construction projects.



Sustainable product tests

In test centres belonging to Hörmann, all construction project doors are sustainably tested with regard to climate properties, air permeability, driving rain leaktightness and long-term functionality. These comprehensive tests give you safety as they guarantee the trouble-free function of the doors over many years, provided that they are maintained every year.



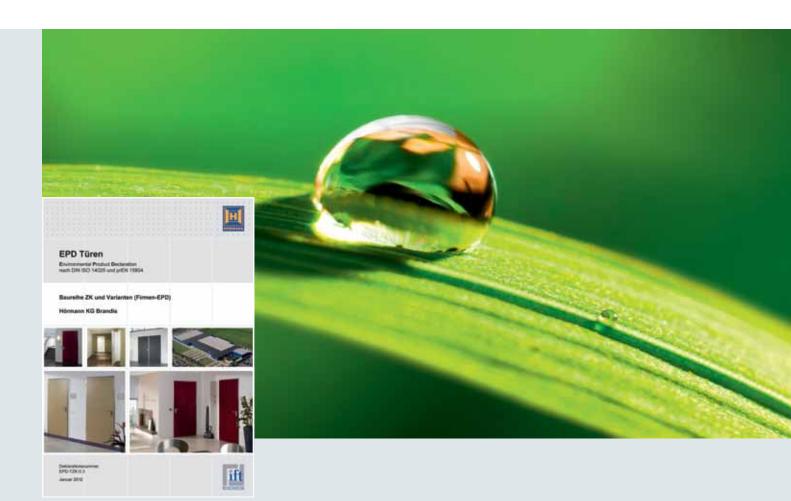
Expert building support

Experienced specialists within our customer-oriented sales organisation accompany you from the planning stage, through technical clarification up to the final building inspection.

Expert fitting is guaranteed by experienced Hörmann fitters and the specialised trained staff of Hörmann's partners.

Sustainable production for trend-setting construction

Internal doors ZK, OIT and apartment entrance door WAT



Sustainability documented and approved by the ift in Rosenheim

Hörmann has already received confirmation of the sustainability of its ZK and OIT steel internal doors and its apartment entrance door WAT through an environmental product declaration (EPD)* in accordance with ISO 14025 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim. The inspection was based on the Product Category Rules (PCR) Doors and Gates from ift Rosenheim GmbH, issue PCR-TT-0.1.

Environmentally-friendly production was confirmed by a life-cycle analysis in accordance with DIN ISO 14040/14044 for all doors.

Sustainably produced multi-function doors from Hörmann

- Environmentally friendly production e.g. solvent-free powder coating at the factory, which can be fully finished on-site with a variety of limited-VOC paints or primers.
- Regional raw materials
 The majority of applied raw materials is purchased from Germany and central Europe.
- Durable, low maintenance products
 Approved in a functional test.

Sustainable construction with Hörmann's expertise

Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. Another advantage: For every project order, the required data for LEED certification are automatically generated.







Hörmann internal and external doors

Variety is our strength



Sturdy internal doors

The ZK internal doors have been used for decades in offices and administrative buildings on account of their numerous benefits. They are robust, retain their shape and are highly durable. OIT internal doors have been developed for tough everyday use in industrial and commercial buildings, workshops, administrative buildings, schools and barracks. We offer different infills depending on the field of application and your requirements.



Secure apartment entrance doors

With the WAT fire-rated security door from Hörmann, you're making the right choice for e.g. entrance doors in apartment buildings. As standard, the heavy-duty steel door is equipped with security as well as fire protection features and therefore gives the residents of the building a safe feeling. It also ensures that the door fulfils every individual requirement thanks to the colour and equipment versions.



Fully glazed office doors

The elegant and sophisticated as well as stable aluminium internal doors AZ 40 and ES 50 are recommended for superior high-quality interior construction, such as in offices and administrative buildings. The door style can be harmoniously matched to the interior design scheme. The large areas of glazing create a bright, friendly atmosphere. In terms of both equipment and quality, these aluminium doors meet the high standards required of high-grade internal doors in a modern-day environment.



External doors with thermal break

Today, the reduction of energy costs is more important than ever. Considering this, the MZ Thermo external door is our recommendation. This multi-purpose door with its thermally separated elements – door leaf, frame and all-round floor seal – allows an improvement in thermal insulation by up to 30 %, compared with conventional multi-purpose doors. As an especially secure external door, you can obtain this product in an RC 2 version as the KSI Thermo. For light and representative entrance areas, we recommend the fully glazed TC 80 frame door.

Internal door ZK

Proven as a competitively-priced solution Single and double-leaf

As a door leaf or door set

ZK doors are available as a ready-to-hang door leaf or as a complete ready-to-fit door set.

Door leaf

The door leaf is delivered with fitted lock and bright-galvanized hinge top parts V 0020 firmly screwed into the reinforced sections, but without lever handle set.

Door set

The door leaf is equipped with a lever handle set and a special corner frame made from 1.5-mm-thick galvanized sheet steel with powder-coated primer in Traffic white (similar to RAL 9016) as standard.

Frame

The frame is fitted with a UPVC sealing profile on 3 sides, with welded frame parts and grouting lugs.

ZK doors can also be fitted into existing standard frames and of course into any Hörmann steel door frame (prepared for hinges of the V 8000 series).

Easy to shorten up to 20 mm

The door leaf can be shortened at the bottom using a suitable saw, e.g. for modernisations.

1 The durable door leaf: dimensionally stable with no warping

The close-meshed honeycomb insert is glued to the two galvanized steel sheets over the entire surface, giving the door greater stability.

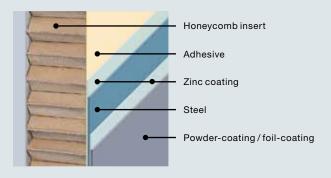




Illustration:

ZK door with powder-coated primer in Window grey (similar to RAL 7040) with white rose escutcheon handle set (special equipment)



Frame seal Due to the design of the door leaf and frame seal, Hörmann ZK doors also help to keep out noise and the cold.



Top hinge parts
They are firmly screwed
in the reinforced sections
of the door leaves and
can be used on the
left/right side.



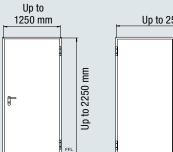
Mortice lever / knob lock
The lock is prepared
for a profile cylinder
(backset 55 mm) and fulfils
all DIN 18251 requirements.
A plastic latch and steel bolt,
deadlock insert as well
as a key are part of the
equipment. On request,
the lock is also supplied
with a profile cylinder.

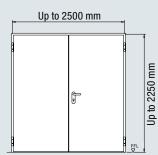


Thick rebateDoor leaf thickness 40 mm



Main function Internal door





Internal door	ZK
Doorleaf	40 mm
Sheet thickness	0.6 mm
Rebate type	Thick rebate
Performance characteristics	
Duty category	S
Climatic class	III
Thermal insulation U _D	2.1 W/(m ² ·K)*
Acoustic insulation	25 dB*

^{*} With single-leaf door in conjunction with corner frame and without glazing

Optional extras

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ZK single-leaf			
Width	Height		
500 – 1250	1500 – 2250		
434 – 1184	1468 – 2218		
ZK double-leaf			
Width	Height		
1500 – 2500	1500 – 2250		
1434 – 2434	1468 – 2218		
	Width 500 - 1250 434 - 1184 ZK dou Width 1500 - 2500		

^{*} With an opening angle of 90° and without handles and levers

Internal door OIT

The heavy-duty and reinforced internal doors that retain their shape Single and double-leaf

As a door leaf or door set

OIT doors are available as a ready-to-hang door leaf or as a complete ready-to-fit door set.

Door leaf

The door leaf is delivered with fitted lock and bright-galvanized hinge top parts V 0026 WF firmly screwed into the reinforced sections, but without lever handle set.

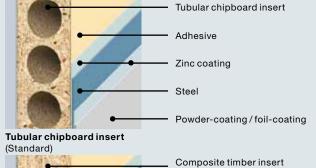
Door set

The door leaf is equipped with a lever handle set and a special corner frame made from 1.5-mm-thick galvanized sheet steel with powder-coated primer in Traffic white (similar to RAL 9016) as standard.

Frame

The frame is fitted with an EPDM seal on 3 sides, with welded frame parts and grouting lugs. The door will be delivered with corner and profile frame as well as with block frame or you can also insert it into an existing standard frame or in every Hörmann steel frame.

1 Steel and timber well combined: especially heavy-duty door leaves in three infill versions

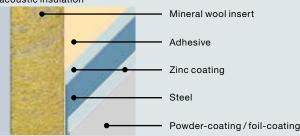


- Composite timber i

Zinc coating

Steel

Composite timber insert (on request) for improved acoustic insulation



Powder-coating / foil-coating

Mineral wool insert (on request) for better thermal insulation



Illustration:
OIT door with powder-coated primer
in Traffic white (similar to RAL 9016)
with aluminium handle set (special equipment)



3-part hinges, galvanized (standard)



Three-way adjustable hinges, matt chrome-plated (optional)

Door hinges selectable in the building system

The door is equipped with maintenance-free 3-part hinges as standard; as an option, you can obtain three-way adjustable VX hinges.



Mortice lever / knob lock

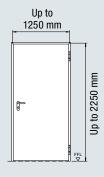
The lock is prepared for a profile cylinder (backset 55 mm) and fulfils all DIN 18251 requirements. A plastic latch and steel bolt, deadlock insert as well as a key are part of the equipment. On request, the lock is also supplied with a profile cylinder.

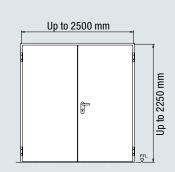


Thick rebate

Door leaf thickness 40 mm







Additional functions

dB

Acoustic-rated

DIN EN 20140 without glazing, with retractable bottom seal

RC 2

Break-in-resistant RC 2

DIN EN 1627 Up to 1250 × 2250 mm

- Multiple-point locking with 2 additional steel bolts
- Profile cylinder, drillproof acc. to DIN 18254, PZ-3-BS with 3 keys and security certificate for spare keys
- Aluminium lever / knob handle set acc. to DIN 18257 with short escutcheon (class ES 1) and pull-off protection
- 1 steel security bolt

Internal door	OIT	
Doorleaf	40 mm	
Sheet thickness	0.8 mm	
Rebate type	Thick rebate	
Additional functions / performance characteristics		

Duty category S
Climatic class

Thermal insulation \mathbf{U}_{D}

Acoustic insulation

(in conjunction with retractable bottom seal) with tubular chipboard 32 dB^* with solid chipboard 38 dB^* with mineral wool insert 32 dB^*

Optional extras

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	OIT single-leaf		
Size range	Width	Height	
Nominal size (ordering size)	500 – 1250	1500 – 2250	
Clear passage*	434 – 1184	1468 – 2218	
	OIT double-leaf		
Size range	Width	Height	
Nominal size (ordering size)	1500 – 2500	1500 – 2250	
Clear passage*	1434 – 2434	1468 – 2218	

^{*} With an opening angle of 90° and without handles and levers

With single-leaf door in conjunction with corner frame and without glazing

Fire-rated security door WAT

The safe apartment entrance door Single-leaf

Door set

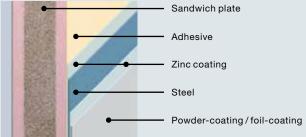
We supply WAT doors as a complete ready-to-fit door set. The door leaf with sandwich plate on the inside comprises 0.6-mm-thick galvanized sheet steel with powder-coated primer and is delivered in Traffic white (similar to RAL 9016) as standard. Thanks to the standard retractable bottom seal, the WAT achieves acoustic rating category II.

Frame

The frame is equipped with a profile with fire-proof seal on all 3 sides, hinge pockets for 3-way adjustable hinges and grouting lugs.

The fire-rated security door WAT is offered with corner and profile frame for fitting in brickwork as well as a block frame for fitting in the opening.

The heavy-duty door leaf: For reliable security and fire protection



Sandwich plate



NEW: Acoustic rating category II thanks to retractable bottom seal as standard



3-way adjustable hinges

The door is equipped with 3-way adjustable hinges (1 spring hinge, 1 construction hinge).



3 solid steel bolts on the hinge side make

it practically impossible to force the door open.



Multiple-point locking

The lock is equipped with an aluminium security lever/ knob handle set (according to DIN 18257, Class ES 1). On request, you can also order it made from brushed stainless steel and with drill-resistant profile cylinder (DIN 182522 PZ-2-BS) including 3 steel latches and 2 hook bolts.



Thick rebate

Door leaf thickness 40 mm

Main functions

T30

Fire-retarding



Break-in-resistant

RC 2

(tested at hinge and opposite hinge side)



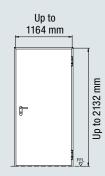
Internal door

Additional function

(with corresponding equipment)

RS

Smoke-tight



Fire-rated security door	WAT
Doorleaf	40 mm
Sheet thickness	0.6 mm
Rebate type	Thick rebate
Performance characteristics	
Duty category	S

Climatic class Thermal insulation Un 1.8 W/(m²·K)

Acoustic insulation 38 dB **Acoustic rating category** Ш Resistance to repeated opening Class C5 and closing

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	WAT		
Size range	Width	Height	
Nominal size (ordering size)	625 – 1164	1964 – 2132	
Clear passage*	561 – 1100	1932 – 2100	

^{*} With an opening angle of 90° and without handles and levers

Internal door AZ 40

The fully glazed office door made from aluminium for modern architecture Single-leaf

As a door leaf or door set

AZ 40 doors are available as a ready-to-hang door leaf or as a complete ready-to-fit door set.

Door leaf

The door leaf is delivered with fitted lock and bright-galvanized hinge top parts.

Door set

For new buildings we recommend using the complete door set together with a frame of your choice selected from Hörmann's wide range of door frames acc. to DIN 18111.

Frame

The frame is made from 1.5-mm-thick galvanized sheet metal and is primed in Light grey (similar to RAL 7035). The sealing profile on 3 sides and fixing material are included in the scope of delivery.

The frame can be delivered as a corner frame for brickwork, concrete and gas concrete, or as a profile frame for brickwork, concrete, gas concrete, gypsum plasterboard and partition walls.



The elegant, sturdy door leaf

The slimline tubular frame construction made from aluminium extrusions has an elegant appearance. Solid corner joints in the frame give the AZ doors a high degree of stability. The precision mitres and the Softline glazing beads make for attractive aesthetics.



The quality lock

Mortice lever / knob lock acc. to DIN 18251, Class 3, prepared for profile cylinder (backset 55 mm). With plastic latch, steel bolt and brass-coloured painted lock cover, deadlock insert and key. Also with profile cylinder on request (stainless steel lock cover shown).



Illustration:

High-gloss door leaf with powder-coated primer and frame painted in the same colour of Anthracite grey (similar to RAL 7016) on-site, with aluminium lever handle set (special equipment)



High-grade seals

As standard, the AZ 40 is fitted with all-round EPDM glass rebate seals with Softline glazing beads in the leaf infills. The door set is also equipped with an EPDM frame seal on 3 sides, optionally with a retractable bottom seal.



Galvanized steel Stainless steel

Hinge systems to choose

The door leaf is equipped as standard with galvanized hinge parts V 0026 WF, which are firmly screwed in. The door leaf and frame are prepared for the hinge systems V 8000 WF / V 9000 WF. Further hinge systems are available on request.



Attractive design

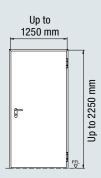
With the round-style frame and Globus hinges, AZ doors have a particularly attractive appearance.



Tubular frame constructionDoor leaf thickness 40 mm



Main function Internal door



Internal door	AZ 40
internal door	A L 40
Profile system	Aluminium
Doorleaf	40 mm
Viewed width	
Opposite hinge side	105 mm
Hinge side	130 mm
Depth	40 mm
Bottom section height	150 mm

Optional extras

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	AZ 40 Width Height	
Size range		
Nominal size (ordering size)	750 – 1250	1875 – 2250
Clear passage*	671 – 1171	1843 – 2218

^{*} With an opening angle of 90° and without handles and levers

Internal door ES 50

The fully glazed office door – can also be used as a completely glazed partition wall Single and double-leaf, side elements, transom lights

As a complete door set

The ES 50 doors are available as complete ready-to-fit door sets or in combination with side elements and transom lights as individual glazing sets.

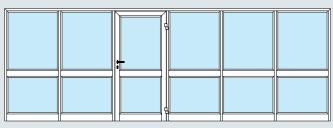


Sturdy and elegant door leaf

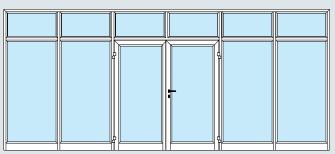
The slimline tubular frame construction made from aluminium extrusions with flush-fitting transitions has an elegant appearance. Solid corner joints in the frame give the ES 50 doors a high degree of stability.

Can be extended to form a partition wall

You can combine the door with any side elements and transom lights. This provides you with, e.g., a complete glazing set as partition wall for individual offices.



Style 101 with horizontal rail and side elements



Style 102 with side elements and transom lights



(special equipment)

As fully glazed partition wall with side elements and transom lights



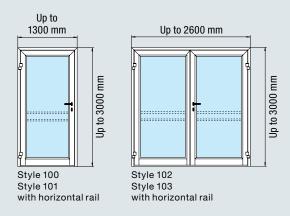
Adjustable hinges The ES 50 can be adjusted optimally using the threeway adjustable hinges and falls into the lock easily and quietly.



The door is equipped with a mortice lever/knob lock according to DIN 18251, Class 3, prepared for a profile cylinder (backset 40 mm), a plastic latch, steel bolt and lock cover painted in brass colour, deadlock insert and key. On request, it can also be supplied with a profile cylinder.



Main function Internal door



Internal door	ES 50
Profile system	Aluminium
Door leaf	50 mm
Viewed width	
- rame	70 mm
_eaf	75 mm
Depth	50 mm
Bottom section height	150 mm

	Styles 100/101	
Size range	Width	Height
Overall frame dimension (ordering size)	605 – 1300	1740 – 3000
Clear passage*	421 – 1116	1670-2930

	Styles 102/103	
	Width	Height
Overall frame dimension (ordering size)	1335 – 2600	1740 – 3000
Traffic leaf	500 – 1500	
Fixed leaf	500 – 1500	
Clear passage*	1107 – 2372	1670 – 2930

^{*} With an opening angle of 90° and without handles and levers

	5	
	?	
Quality	lock	

Optional extras

Colours and decor surfaces Page 24 Optional equipment Page 26 Dimensional references/sizes Page 31

External door TC 80

The fully glazed outside door for light and representative building entrances Single and double-leaf, side elements, transom lights

As a complete door set

The TC 80 doors are available as complete ready-to-fit door sets or in combination with side elements and transom lights as individual glazing sets.



Door construction with thermal break

The door leaf and frame, as well as the double thermal insulation glazing with thermal break, offer a high thermal insulation. Triple glazing for even better thermal insulation is optionally available.



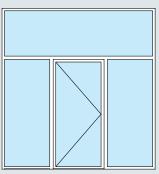
Threshold with thermal break

The 80-mm-wide and sturdy threshold with thermal break (in EV 1 silver) with concealed bolting to the bottom ensures optimum thermal insulation.



Adjustable hinges

The door can be adjusted optimally using the threeway adjustable hinges and falls into the lock easily and quietly. Concealed hinges are also available as an option.



Vertical / horizontal profile construction as a complete element

Can be combined to form walls of any size You can also combine the TC 80 doors with transom lights and side elements that allow large fully glazed entrance areas to be created.



Door leaf and frame with high-gloss powdercoating in Traffic white (similar to RAL 9016), with lever handle set in Traffic white RAL 9016





Secured fittings outside The knob handle and the security rose escutcheon that protect the profile cylinder against being drilled out and twisted off are standard equipment.



5-point automatic lock With this multiple lock, 3 steel hooks and 2 bolts swing into the lock plates and lock the door automatically; this self-locking mechanism can be manually deactivated, such as, e.g. for the application of a Hörmann electric strike with day-night function.



Tubular frame constructionDoor leaf thickness 80 mm with thermal break



Main function External door

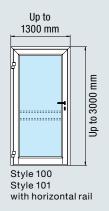


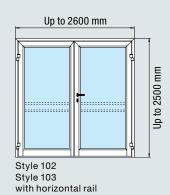


Additional function



Break-in-resistant WK 2





Class 1(d)/2(e)

Class 5

External door	TC 80
Profile system	Aluminium
Doorleaf	80 mm With thermal break
Viewed width	
Frame	70 mm
Leaf	75 mm
Depth	80 mm
Bottom section height	150 mm
Performance characteristics	
Thermal insulation $\mathbf{U}_{\scriptscriptstyle D}$	1.4 – 1.7 W/(m ² ·K)
Driving rain leaktightness	Class 2A
Air permeability	Class 1
Mechanical strength	Class 3

Differential climate behaviour

and closing

Resistance to repeated opening

	Styles 100 / 101	
Size range	Width Height	
Overall frame dimension (ordering size)	605 – 1300	1740 – 2500
Clear passage*	391 – 1086	1670-2430

	Styles 102/103	
	Width	Height
Overall frame dimension (ordering size)	1335 – 2600	1740 – 2500
Traffic leaf	500 – 1500	
Fixed leaf	500 – 1500	
Clear passage*	1047 - 2312	1670-2430

^{*} With an opening angle of 90° and without handles and levers

Optional extras

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External multi-purpose door MZ Thermo

With 7-point security and thermal break on door leaf and frame Single-leaf



Door leaf with thermal break

The thermal break door leaf completely filled with PU rigid foam allows an improvement in thermal insulation by up to 30 %, compared with conventional multi-purpose doors.



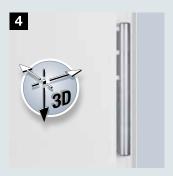
Aluminium frame with thermal break A2

The aluminium block frame with thermal break can be fitted opening inwards as well as opening outwards.



Threshold with thermal break

The 20-mm-high aluminium plastic threshold rail with thermal break, double all-round seals and additional brush seals in the foot area ensure a high tightness and thermal insulation.



3-way adjustable guide rollers

Secured two-part threeway adjustable hinges with stainless steel decorative caps guarantee smooth door function.



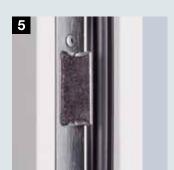
Illustration:

MZ Thermo TPS 021 painted in Traffic white (similar to RAL 9016) with Mastercarré glazing and stainless steel lever handle set (special equipment)



7-point security

In the lock plates of the frame, 1 lock bolt engages and pulls the door tightly shut. Another 3 security bolts on the hinge side and 3 further hinges (guide rollers) make it practically impossible to force the door open.



Lock latch



Locking rod



Security bolts

Thick rebate

Door leaf thickness 46 mm with thermal break



Main functions

Multi-purpose door



External door

Labelled according to DIN EN 14351-1



Optional extras

Optional equipment

Dimensional

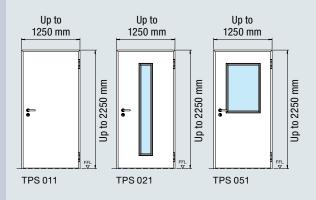
Colours and decor surfaces

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Multi-purpose door	MZ Thermo
Door leaf	46 mm With thermal break
Sheet thickness	0.8 mm
Rebate type	Thick rebate

Performance characteristics

Thermal insulation Un

Driving rain leaktightness

TPS 011 Class 4A
TPS 021 Class 2A
TPS 051 Class 2A
Air permeability Class 3
Mechanical strength Class 4
Differential climate behaviour Class 3(c)

Resistance to repeated opening

and closing Class 5
Impact resistance Class 2

	MZ Therm	10 TPS 011
Size range	Width	Height
Overall frame dimension (ordering size)	875 – 1250	1875 – 2250
Clear passage*	747 – 1122	1791 – 2166

	MZ Thermo TPS 021, 051	
Size range	Width	Height
Overall frame dimension (ordering size)	875 – 1250	1990 – 2250
Clear passage*	747 – 1122	1906-2166

^{*} With an opening angle of 90° and without handles and levers

All dimensions in mm

With an opening angle of our and without hardico and levely

External security door KSI Thermo

With 11-point security and all-round thermal break Single-leaf



Door leaf with thermal break

The thermal break door leaf completely filled with PU rigid foam allows an improvement in thermal insulation by up to 30 %, compared with a conventional security door.



Aluminium frame with thermal break A2

The aluminium block frame with thermal break is fitted opening inwards.



Threshold with thermal break

The 20-mm-high aluminium plastic threshold rail with thermal break, **double all-round seals** and additional brush seals in the foot area ensure a high tightness and thermal insulation.



3-way adjustable guide rollers

Two-part three-way adjustable hinges with securing pin and stainless steel decorative caps guarantee smooth door function.



Illustration: KSI Thermo painted in Traffic white (similar to RAL 9016) with stainless steel lever / knob handle set



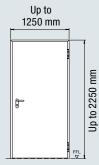
11-point security

2 conical swing bolts engage with 2 additional security bolts and 1 lock bolt in the frame's lock plates and pull the door shut tightly. Another 3 security bolts on the hinge side and 3 further hinges (guide rollers) make it practically impossible to force the door open. Another advantage: the door closes especially quietly due to the soft-lock latch.



Thick rebate

Door leaf thickness 46 mm with thermal break



1.1 W/(m²·K)

Class C3

Class 4A Class 3

Class 4

Class 3(c)

Main functions

RC 2

Break-in-resistant RC 2

(tested at opposite hinge side)



External door

Labelled according to DIN EN 14351-1



Security door Door leaf Sheet thickness Rebate type Performance characteristics KSI Thermo 46 mm With thermal break 0.8 mm Thick rebate

Thermal insulation U_D
Wind load
Driving rain leaktightness
Air permeability
Mechanical strength

Differential climate behaviour Resistance to repeated opening

and closing Class 5
Impact resistance Class 2

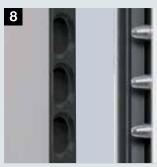


Soft-lock latch

Locking rod



Swing bolt with security bolts



Security bolts

Optional extras

Colours and decor surfaces	Page 24
Optional equipment	Page 27
Dimensional references /	
standard sizes	Page 33

	KSITI	nermo
Size range	Width	Height
Overall frame dimension (ordering size)	875 – 1250	1875 – 2250
Clear passage*	747 – 1122	1791 – 2166

^{*} With an opening angle of 90° and without handles and levers

Colours and decor surfaces

Whatever you want!

RAL to choose***

On request, all doors are available in the colours of the RAL scale.



Preferred colours*

Hörmann function doors come in 15 inexpensive preferred colours* and all RAL colours***. Surfaces are powder-coated with a high-quality primer (painted for external doors) which makes them especially resistant and durable. The internal doors ZK and OIT are also supplied with galvanized surface finish.

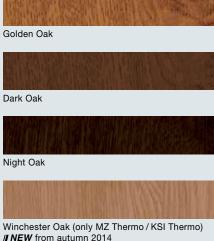
All colours based on RAL.

Cream** // NEW	RAL 9001
Grey aluminium** // NEW	RAL 9007
White aluminium	RAL 9006
Grey white** // NEW	RAL 9002
Terra brown	RAL 8028
Clay brown	RAL 8003
Window grey	RAL 7040
Light grey	RAL 7035

Anthracite grey	RAL 70
Moss green	RAL 60
Pigeon blue	RAL 50
Gentian blue** // NEW	RAL 50
Ruby red	RAL 30
Flame red** // NEW	RAL 30
	RAL 10

Decor surfaces*

For a natural or exclusive door style, we offer high-quality decor surfaces in 9 true-to-original timber looks as well as the especially elegant Titanium Metallic surface finish.



- * Except for AZ 40, ES 50, TC 80 doors
- ** Except for ZK, OIT, KSI, WAT
- ***Except for WAT, MZ Thermo, KSI Thermo doors



Titan Metallic CH 703 (only MZ Thermo / KSI Thermo) **// NEW** from autumn 2014



Optional equipment

Internal doors ZK, OIT

Plastic lever handle sets

The lever handle or the lever / knob handle set are delivered in black as standard, as well as optionally in red or white.



Plastic lever handle set, short escutcheon, prepared for profile cylinder / deadlock, black plastic



Lever/knob handle set, rose escutcheon, prepared for profile cylinder, black plastic

Aluminium / stainless steel lever handle sets

Offered in the same versions as the plastic handle sets, in aluminium anodised in natural finish (F1) or stainless steel.



Lever / knob handle set, short escutcheon, prepared for profile cylinder, aluminium



Lever handle set, rose escutcheon, prepared for profile cylinder, stainless steel

Glazings

- Single-pane safety glass (6 mm)
- Laminated safety glass (6 mm)
- Ornamental glass (6 mm)
 - Mastercarré
 - Masterpoint
 - Masterligne

Glazing frame

- Anodised aluminium E6/EV 1
- Timber glazing beads (with timber design)
- Stainless steel (option)



Round glazing (Ø 300 / 400 mm)



Glazing view 5



Glazing view 6



Glazing view 7

More equipment

- Wide-angle spyhole
- Letter drop flap
- Plastic ventilation grille, positioned on the bottom or on the bottom and on top (435 x 85 mm)



Glazing view 8



Spyhole



Ventilation grilles

Optional equipment

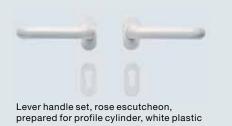
Internal doors AZ 40, ES 50 External door TC 80

Plastic lever handle sets

The doors can be offered optionally with lever handle or the lever / knob handle set in black, red or white as well as all HEWI colours.

Aluminium / stainless steel lever handle sets

Can be delivered in the same versions as the plastic handle sets, in aluminium anodised in natural finish (F1) or stainless steel.





Lever/knob handle set, rose escutcheon, prepared for profile cylinder, white plastic



Lever handle set, rose escutcheon, prepared for profile cylinder, aluminium



Lever / knob handle set, rose escutcheon, prepared for profile cylinder, stainless steel

Glazings

- Ornamental glass (4 mm)
 - Mastercarré
 - Masterpoint
 - Masterligne
 - Royal Flash
 - Royal Trio
 - Silk
- Wired ornamental glass (7 mm)
- Single-pane safety glass (6 mm)
- Laminated safety glass (6 mm)
- Insulated glass (18 mm)
- Aluminium panel infill (10 mm)



Mastercarré



Masterpoint



Masterligne



Royal Flash



Royal Trio



Silk

More equipment

- Anti-panic locks
- Slide rail overhead door closer HDC 35



Slide rail overhead door closer HDC 35

Optional equipment

Fire-rated security door WAT

External multi-purpose door MZ Thermo, external security door KSI Thermo

Fire-rated security door WAT

Aluminium / stainless steel lever handle sets

As standard, the doors are available with a lever handle or lever / knob handle set in aluminium anodised in natural finish (F1) or optionally in stainless steel.



Lever / knob handle set, short escutcheon, prepared for profile cylinder, aluminium

Lever handle set, short escutcheon, prepared for profile cylinder, stainless steel

More equipment

- Spyhole
- Slide rail overhead door closer HDC 35

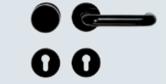


Slide rail overhead door closer HDC 35

External multi-purpose door MZ Thermo External security door KSI Thermo

Lever handle sets MZ Thermo

As standard, the doors are available with a lever handle or lever/knob handle set in black plastic, as well as optionally in aluminium anodised in natural finish (F1) or in stainless steel.



Lever / knob handle set, rose escutcheon, prepared for profile cylinder, black



Lever handle set, rose escutcheon, prepared for profile cylinder, aluminium

Lever handle sets KSI Thermo

The doors are equipped with a lever handle or lever/knob handle set ES 1 in stainless steel.



Lever/knob handle set, ES 1, long escutcheon, prepared for profile cylinder, stainless steel



Lever handle set, ES 1, long escutcheon, prepared for profile cylinder, stainless steel

More equipment MZ Thermo

- Anti-panic locks
- Slide rail overhead door closer HDC 35
- Retractable bottom seal



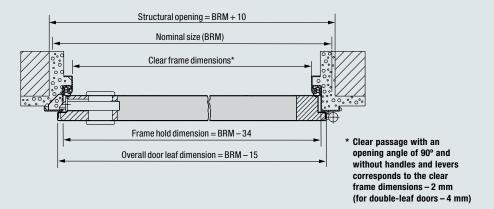
Slide rail overhead door closer HDC 35

Internal doors ZK, OIT

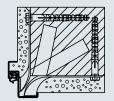
Vertical view

Structural opening = BRM + 5 Nominal size (BRM) Clear frame dimensions Frame hold dimension = BRM-17 Overall door leaf dimension = BRM-15

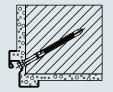
Horizontal view



Fitting versions







Special corner frame Plug-and-screw fitting through the groove bottom

Ordering size Nominal size	Structural opening	Clear frame dimensions*	Frame hold dimension	Overall door leaf dimension	Clear views** Width × height				
Width × height	Width × height	Width × height	Width × height	Width × height	View 5	View 6	View 7	View 8	
Standard sizes	Standard sizes ZK / OIT, single-leaf								
625 × 2000	635 × 2005	561 × 1968	591 × 1983	610 × 1985	200 × 375	200 × 950	200 × 1305	245 × 1620	
625 × 2125	635 × 2130	561 × 2093	591 × 2108	610 × 2110	200 × 375	200 × 950	200 × 1305	245 × 1745	
750 × 1875	760 × 1880	686 × 1843	716 × 1858	735 × 1860	325 × 375	325 × 950	325 × 1305	370 × 1495	
750 × 2000	760 × 2005	686 × 1968	716 × 1983	735 × 1985	325 × 375	325 × 950	325 × 1305	370 × 1620	
750 × 2125	760 × 2130	686 × 2093	716 × 2108	735 × 2110	325 × 375	325 × 950	325 × 1305	370 × 1745	
875 × 1875	885 × 1880	811 × 1843	841 × 1858	860 × 1860	450 × 375	450 × 950	450 × 1305	495 × 1495	
875 × 2000	885 × 2005	811 × 1968	841 × 1983	860 × 1985	450 × 375	450 × 950	450 × 1305	495 × 1620	
875 × 2125	885 × 2130	811 × 2093	841 × 2108	860 × 2110	450 × 375	450 × 950	450 × 1305	495 × 1745	
1000 × 1875	1010 × 1880	936 × 1843	966 × 1858	985 × 1860	575 × 375	575 × 950	575 × 1305	620 × 1495	
1000 × 2000	1010 × 2005	936 × 1968	966 × 1983	985 × 1985	575 × 375	575 × 950	575 × 1305	620 × 1620	
1000 × 2125	1010 × 2130	936 × 2093	966 × 2108	985 × 2110	575 × 375	575 × 950	575 × 1305	620 × 1745	
Standard sizes	Standard sizes ZK / OIT, double-leaf								
1500 × 2000	1510 × 2005	1436 × 1968	1466 × 1983	1485 × 1985	325 × 375	325 × 950	325 × 1305	370 × 1620	
1750 × 2000	1760 × 2005	1686 × 1968	1716 × 1983	1735 × 1985	450 × 375	450 × 950	450 × 1305	495 × 1620	
2000 × 2000	2010 × 2005	1936 × 1968	1966 × 1983	1985 × 1985	575 × 375	575 × 950	575 × 1305	620 × 1620	
2000 × 2125	2010 × 2130	1936 × 2093	1966 × 2108	1985 × 2110	575 × 375	575 × 950	575 × 1305	620 × 1745	

** Glazing cut-out in special sizes on request

Special sizes, single-leaf

Width: 500-1250 Height: 1500-2250 Special sizes, double-leaf

Width: 1500 – 2500 Height: 1500 – 2250

Please state handing on order!









Left-hand hinged Right-hand hinged Traffic leaf left-hand hinged

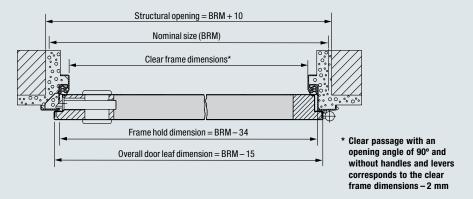
Traffic leaf right-hand hinged

Fire-rated security door WAT

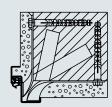
Vertical view

Nominal size (BRM) Clear frame dimensions Clear frame dimension = BRM-17 Frame hold dimension = BRM-15 Overall door leaf dimension = BRM-15

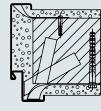
Horizontal view



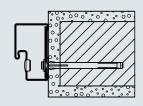
Fitting versions



Corner frameFitting to brickwork
Grouting lugs



Profile frameFitting to brickwork
Grouting lugs



Block frameFitting to brickwork
Plug-and-screw fitting

Ordering size	Structural	Clear frame	Frame hold	Overall door leaf
Nominal size	opening	dimensions*	dimension	dimension
Width × height	Width × height	Width × height	Width × height	Width × height
Standard sizes V	VAT (with corner f	rame), single-lea	f	
750 × 2000	760 × 2005	686 × 1968	716 × 1983	735 × 1985
750 × 2125	760 × 2130	686 × 2093	716 × 2108	735 × 2110
875 × 2000	885 × 2005	811 × 1968	841 × 1983	860 × 1985
875 × 2125	885 × 2130	811 × 2093	841 × 2108	860 × 2110
1000 × 2000	1010 × 2005	936 × 1968	966 × 1983	985 × 1985
1000 × 2125	1010 × 2130	936 × 2093	966 × 2108	985 × 2110

Special sizes, single-leaf

Width: 625 – 1164 Height: 1964 – 2132

Please state handing on order!



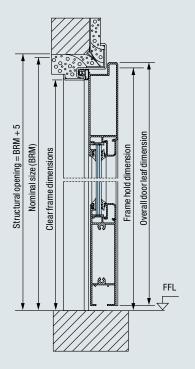


Left-hand hinged

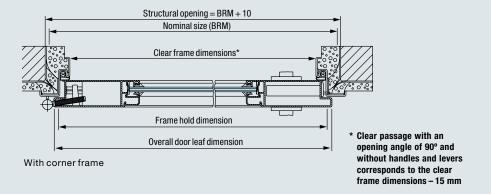
Right-hand hinged

Internal door AZ 40

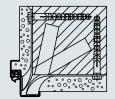
Vertical view



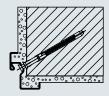
Horizontal view



Fitting versions







Special corner frame Plug-and-screw fitting through the groove bottom

Ordering size Nominal size Width × height	Structural opening Width × height	Clear frame dimensions* Width × height	Frame hold dimension Width × height	Overall door leaf dimension Width × height	Glass dimensions Width × height
Standard sizes A	Z 40**, single-lea	ıf			
750 × 2000	760 × 2005	686 × 1968	716 × 1983	735 × 1985	508 × 1746
750 × 2125	760 × 2130	686 × 2093	716 × 2108	735 × 2110	508 × 1871
875 × 2000	885 × 2005	811 × 1968	841 × 1983	860 × 1985	633 × 1746
875 × 2125	885 × 2130	811 × 2093	841 × 2108	860 × 2110	633 × 1871
1000 × 2000	1010 × 2005	936 × 1968	966 × 1983	985 × 1985	758 × 1746
1000 × 2125	1010 × 2130	936 × 2093	966 × 2108	985 × 2110	758 × 1871

^{**} Refers to door sets with steel frames according to DIN 18111

Special sizes, single-leaf

Width: 750 – 1250 Height: 1875 – 2250

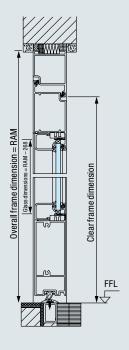
Please state handing on order!

Left-hand hinged Right-hand hinged

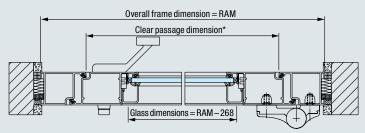
Dimensional references / sizes

Internal door ES 50

Vertical view

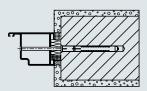


Horizontal view



* Clear passage with an opening angle of 90° and without handles and levers corresponds to the clear passage dimension – 44 mm (–88 mm for double-leaf doors)

Fitting versions



Frames
Fitting to brickwork
Plug-and-screw fitting

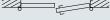
	Ordering size Overall frame dimension	Clear passage dimension*	Traffic leaf	Fixed leaf
Sizes ES 50, sin	gle-leaf (style 100) / 101)		
Width	605 – 1300	465 – 1160		
Height	1740 – 3000	1670 – 2930		
Sizes ES 50, do	uble-leaf (style 10	2/103)		
Width	1335 – 2600	1195 – 2460	500 – 1500	500 – 1500
Height	1740 – 3000	1670 – 2930		

Please state handing on order!







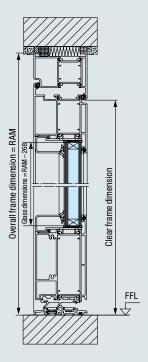


Traffic leaf left-hand hinged Traffic leaf right-hand hinged

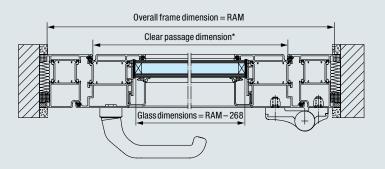
Dimensional references / sizes

External door TC 80

Vertical view

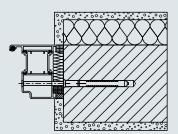


Horizontal view



Fitting versions

* Clear passage with an opening angle of 90° and without handles and levers corresponds to the clear passage dimension – 74 mm (–148 mm for double-leaf doors)



Frames
Fitting to brickwork
Plug-and-screw fitting

	Ordering size Overall frame dimension	Clear passage dimension*	Traffic leaf	Fixed leaf
Sizes TC 80, sin	gle-leaf (style 100)/101)		
Width	605 – 1300	465 – 1160		
Height	1740 – 2500	1670 – 2430		
Sizes TC 80, do	uble-leaf (style 10	2/103)		
Width	1335 – 2600	1195 – 2460	500 – 1500	500 – 1500
Height	1740 – 2500	1670-2430		

Please state handing on order!







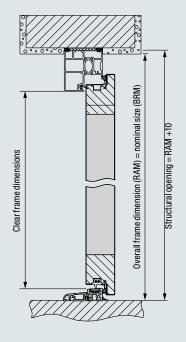


Left-hand hinged Right-hand hinged Traffic leaf left-hand hinged

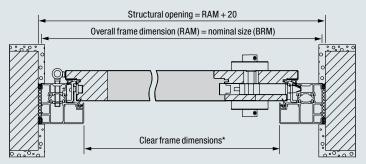
Traffic leaf right-hand hinged

External multi-purpose door MZ Thermo, external security door KSI Thermo

Vertical view



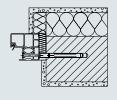
Horizontal view

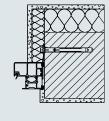


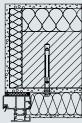
Clear passage with an opening angle of 90° and without handles and levers corresponds to the clear frame dimensions – 2 mm

33

Fitting versions







Block frameFitting to brickwork
Countersunk fitting

Block frame Anchor fitting

Block frame Fitting behind the opening (only MZ Thermo)

Ordering size Nominal size Width × height	Structural opening Width × height	Clear frame dimensions* Width × height	Frame hold dimension Width × height	Overall door leaf dimension Width × height	Glass dimensions TPS 021 Width × height	Glass dimensions TPS 051 Width × height
Standard sizes I	MZ Thermo, single	e-leaf				
875 × 2000	895 × 2010	747 × 1916	785 × 1935	803 × 1955	172 × 1562	531 × 887
875 × 2125	895 × 2135	747 × 2041	785 × 2060	803 × 2080	172 × 1562	531 × 887
1000 × 2000	1020 × 2010	872 × 1916	910 × 1935	928 × 1955	172 × 1562	531 × 887
1000 × 2125	1020 × 2135	872 × 2041	910 × 2060	928 × 2080	172 × 1562	531 × 887
1000 × 2100	1020 × 2110	872 × 2016	910 × 2035	928 × 2055	172 × 1562	531 × 887
1100 × 2100	1120 × 2110	972 × 2016	1010 × 2035	1028 × 2055	172 × 1562	531 × 887
Standard sizes h	(SI Thermo, single	e-leaf				
875 × 2000	895 × 2010	747 × 1916	785 × 1935	805 × 1957		
875 × 2125	895 × 2135	747 × 2041	785 × 2060	805 × 2082		
1000 × 2000	1020 × 2010	872 × 1916	910 × 1935	930 × 1957		
1000 × 2125	1020 × 2135	872 × 2041	910 × 2060	930 × 2082		
1000 × 2100	1020 × 2110	872 × 2016	910 × 2035	928 × 2055		
1100 × 2100	1120 × 2110	972 × 2016	1010 × 2035	1028 × 2055		

Special sizes MZ Thermo TPS 11, single-leaf

Width: 875 – 1250 Height: 1875 – 2250

Please state handing on order!

Special sizes MZ Thermo TPS 021, 051, single-leaf

Width: 875 – 1250 Height: 1990 – 2250

Left-hand hinged

Special sizes KSI Thermo, single-leaf

Width: 875 – 1250 Height: 1875 – 2250



Right-hand hinged

Hörmann product range

Everything from a single source for your construction project

1 Sectional doors

These space-saving door systems can be adapted to different industrial facilities using various track applications. Hörmann offers you tailored solutions for every application.

2 Rolling shutters and rolling grilles

Thanks to a simple construction with just a few components, rolling shutters are both economical and sturdy. Hörmann supplies rolling shutters in widths and heights of up to 11.75 m and 9 m respectively, or as special doors which are even larger.

3 High-speed doors

Hörmann high-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve room conditions and save energy. The Hörmann programme includes vertically and horizontally opening transparent doors with flexible curtains.

4 Loading technology

Hörmann offers you complete loading systems for the logistics sector. The advantages: reliable planning, dependable execution of construction work and high functionality thanks to precisely matched components.

Fire and multi-purpose sliding doors

Hörmann can provide you with single or double-leaf sliding door solutions suitable for all areas and required fire protection classes, or without fire protection.

6 Multi-function doors and reinforced internal doors

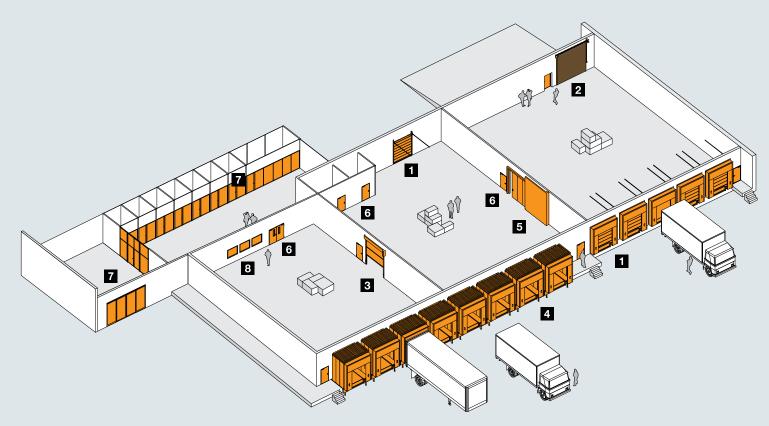
Hörmann multi-function doors and reinforced internal doors are suitable for indoor and outdoor use. Our single and double-leaf doors can be used wherever robust door elements are required. With numerous additional functions, such as fire and smoke protection, acoustic insulation or burglar protection.

7 Box frame parts

For areas in which appearance is important, such as administrative buildings, Hörmann offers you fire and smoke protection doors as well as steel and aluminium fixed glazing and automatic sliding doors, also suited for special fire protection requirements.

8 Visibility windows

Hörmann visibility glazings are used as windows or room-high elements to provide more light and better visibility.





Quick service with testing, maintenance and repairs

Our extensive service network means that we are always nearby and at your service around the clock.

















Hörmann: Quality without Compromise



Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialised factories using the latest production technologies. The close-meshed network of sales and service companies throughout Europe, and activities in the USA and China, make Hörmann your strong partner for first-class building products, offering "Quality without Compromise".

GARAGE DOORS
OPERATORS
INDUSTRIAL DOORS
LOADING EQUIPMENT
HINGED DOORS
DOOR FRAMES

