



Hörmann Interior Doors

Ideal combination of aesthetics and durability



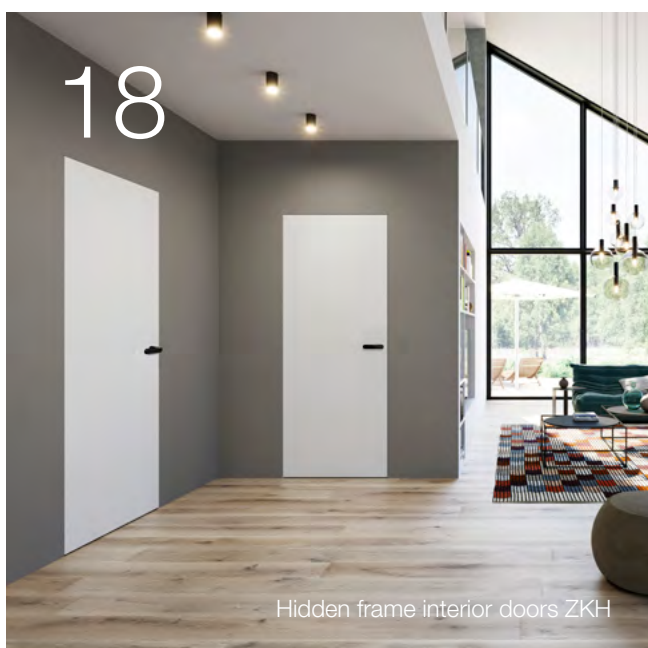
Hochwertige Qualität
Engineered in Germany

HÖRMANN





Steel interior doors ZKS & ZKD



Hidden frame interior doors ZKH



Steel sliding doors HT & HT40

Splendid Life Begins with Hörmann Doors.

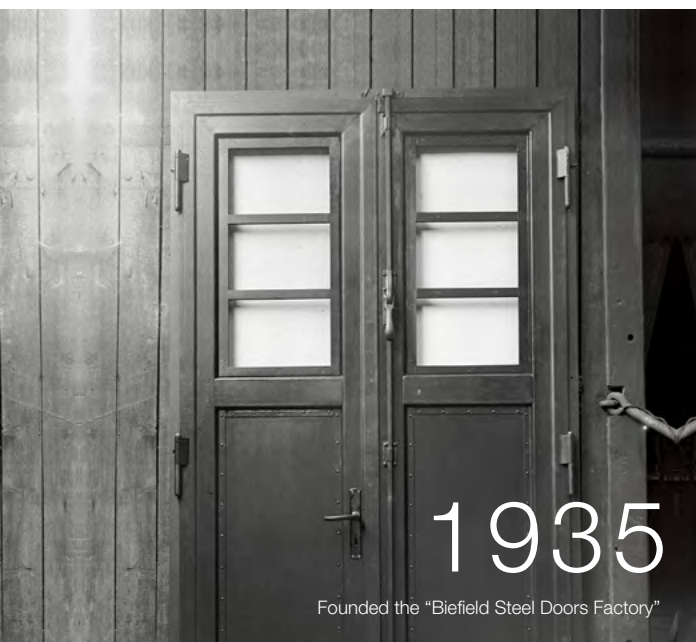
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“Einen guten Namen muss man sich erarbeiten.
Good reputation must be earned.”

— August Hörmann (1886-1944)
Founder of Hörmann Group



The popular Hörmann up-and-over garage doors
throughout European middle-class families in the 1960s



1935

Founded the "Biefeld Steel Doors Factory"

HÖRMANN ONE OF THE LEADING GLOBAL BRANDS OF DOORS

Hörmann, founded in 1935, is a family-owned enterprise headquartered in Steinhagen, Germany. It is one of the leading brands in the international door manufacturing industry, offering a complete range of doors.

Upholding the motto "Good reputation must be earned" founder Mr. August Hörmann laid the foundation for the company. Through the relentless efforts of four generations, Hörmann has evolved into a prestigious brand worldwide, rooted in the family name, and renowned for premium quality.

Hörmann boasts a global presence with more than 40 highly specialized factories across the world and a sales-service network throughout Europe, Asia, and the Americas.

Since Hörmann entered the Chinese market in 1998, factories in Beijing, Tianjin and Changshu were established successively, producing security doors, interior doors, fire-rated doors, industrial doors, and integrated solutions of doors. Hörmann has 15 sales branches and over 100 distributor partners in China. Our service network pervades throughout China and other APAC regions, offering customized opening solutions for our clients.



1998

Entered the Chinese market and established Hörmann Beijing Plant



2018

Hörmann Changshu Plant with automated production line based on Industrial 4.0

Engineered in Germany with Premium Quality



Through nearly a century of innovation and development, Hörmann has prospered with a global footprint and become a true promise of premium quality. Hörmann is committed to offer a comprehensive residential door solution that is suitable for use in both a new residential project and a renovation.

Endurance tests under real conditions for different door types and critical components ensure mature series products with Hörmann quality. This ensures that our customers can rely on our proven range of high-quality products to help them achieve their ambitious plans.



SECURITY AND CARE IN EACH DETAIL COMPETENCE MAKES GOOD QUALITY



In-house product development

Continuous improvements in every detail and constant focus on research and development are the cores of Hörmann's R&D team. This is also the reason why Hörmann has been leading the market with its popular products!



Advanced manufacturing

The ideal matching between key components of Hörmann steel doors is the outcomes of Hörmann's stringent examination and selection. Our specialized factories is equipped with advanced processing equipment for manufacturing. Every link is strictly controlled by ISO 9001 quality management system, thereby ensuring the good product quality.



Excellent services throughout

We pursue perfection with highly professional and experienced service staff and stay closely in touch with customers to provide tailor-made door solutions, including design, installation and aftersales service.



Hörmann Interior Doors For Your Healthy Choice

It always takes a lot of thought to choose a 'green' premium interior door with an impressive look for your beloved family.

With this in mind, Hörmann residential interior doors strictly follow a green path, from raw materials to detailed manufacturing processes. We constantly insist on high-quality galvanized steel, which makes the door not only durable and corrosion-resistant but also environmentally friendly and sustainable. In addition, the elegant surfaces, from Powder-Coating and Silkgrain to Decograin surfaces, contain no volatile organic solvents such as formaldehyde. You can move to your new house right after installation without worrying about indoor air quality and health.



A TRULY COZY HOME DOWN TO EVERY DETAIL



Green & Sustainable

Hörmann offers a full range of interior doors, including steel interior doors, hidden frame interior doors, and steel sliding doors. The rich product categories and optional configuration account for the wide use of Hörmann doors in multiple residential scenarios by satisfying the commonality and unique function of different home spaces.



Rich in Configuration

With user-friendly design, Hörmann's interior doors feature good acoustic insulation and airtightness to ensure that different spaces are not disturbed by each other. Convenient daily use is facilitated by a combination of diverse configurations of door leaf, hardware, glazing and louver.



Diverse Surfaces

Simple but classic exterior design. Hörmann uses simple lines to reflect the true texture of the material, and utilizes a variety of surfaces to enrich your life with brilliant embellishments. Powder coating surfaces feature a smooth and even finish with nearly 200 RAL colours at your choice. Furthermore, the options also include a wide variety of non-fading Decograin surfaces and Silkgrain surfaces.



Easy to install

Customized door solutions can be fulfilled by Hörmann's qualified engineers according to your own taste and actual structural requirements. In addition to a wide range of flexible dimensions, the doors with a larger opening can be further extended by using additional top and side elements. Hörmann provides a rich choice of frame types to cater to various wall constructions.



Steel Interior Door ZK-

Applied in bedroom and study room with quiet enjoyment

Hörmann steel interior doors are designed in German style, with simple lines reflecting the true texture of the material, simplicity is not simple. It adopts German rigorous craftsmanship and blends German technology to refine every detail and create classic and durable interior doors.



Steel Interior Door ZKS
Kings Oak

Multi-chamber hollow sealing

A door between bustle and quiet

How far is the peace and quiet indoors from the hustle and bustle outdoors? Designed with the 40 mm thick door leaf, R-groove design on the frame and multi-chamber hollow sealing, the door features good acoustic insulation up to 33 dB, sweeping away all the fatigue and leaving the mind a quiet space.

Green and health

Hörmann is aware that health is the down-to-earth future of a happy family. That's why eco-friendly products play such an important role for us. Hörmann interior doors provide safe and environmentally friendly powder coating surfaces and Silkgrain surfaces, which are RoHS certified and do not contain volatile organic solvents such as formaldehyde.

Play with styles and individuality

Your interior decorative style sets the tone! Are you looking for a residential interior door that coordinates with your home? In addition to the three series of surfaces, you can also customize your personalized painting on your door. It doesn't get any more individual than that!



Steel Interior Door ZK-

Applied in kitchen & bathroom, stain-resistant and easier to clean

There are differences in requirements for interior doors in different spaces, depending on their functional positioning. The kitchen and bathroom are the most complex places in the home, subject to smoke, stains, moisture and other long-term erosion. Therefore, in the choice of kitchen and bathroom doors, we must pay attention to good light, ventilation, anti-moisture, and ease of cleaning.



Steel Interior Door ZKS
Malaga Cherry



Light and ventilation

Sunlight is the natural “bactericide”. Equipping your kitchen and bathroom doors with large glazing is a wise choice to bring light into the room. From the point of view of privacy, water ripple glass, textured glass, and frosted glass are recommended. You can also install a ventilation louver to meet the requirements of indoor ventilation and dryness.

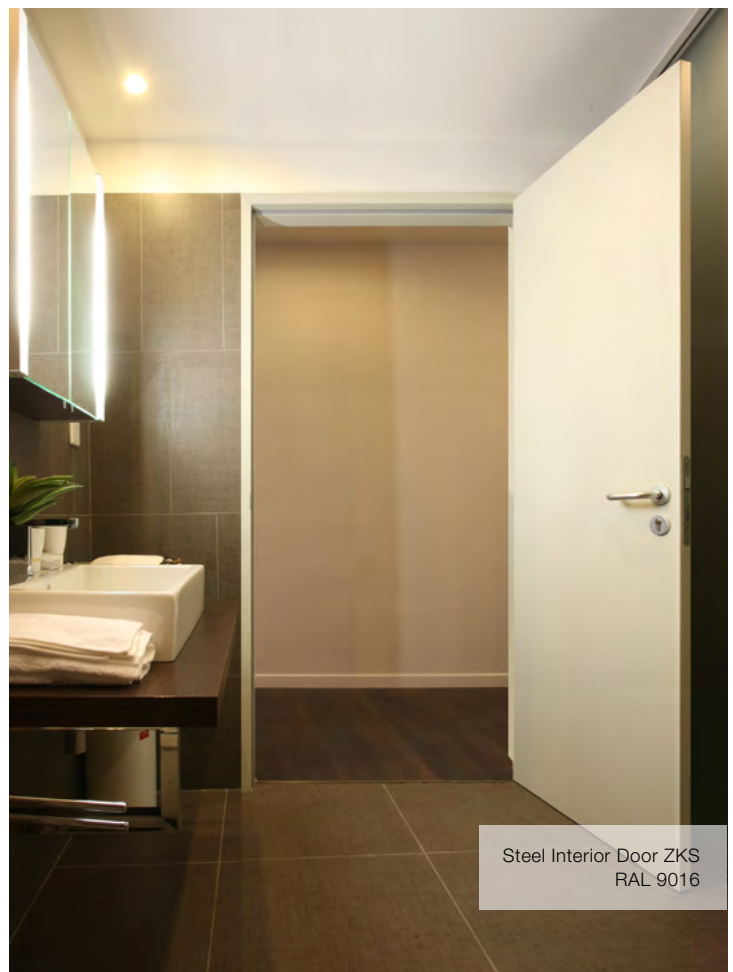
Moisture and Rust Resistance

Hörmann selects double-sided galvanised steel as the main material, providing long-lasting moisture and rust resistance for your kitchen and bathroom.

Durable and easy to clean

You can choose from colourful and vivid powder-coating surfaces or Decograin surfaces, which offer both a subtle texture and ideal cleanability, removing stains with a simple wipe*.

* Highly smooth powder-coating surfaces are recommended for heavily smoked and stained spaces.

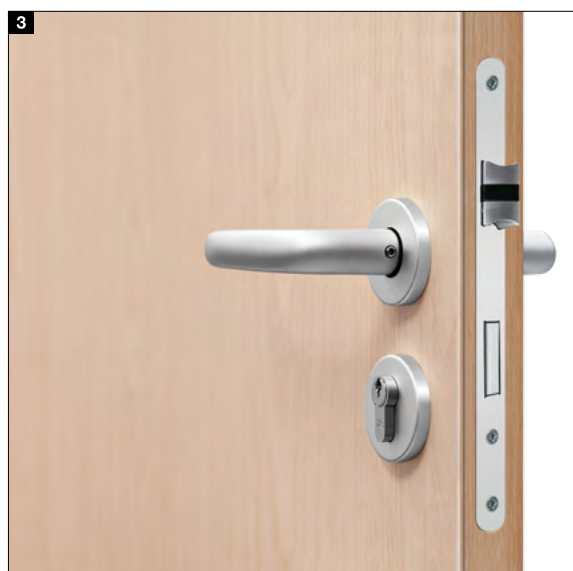
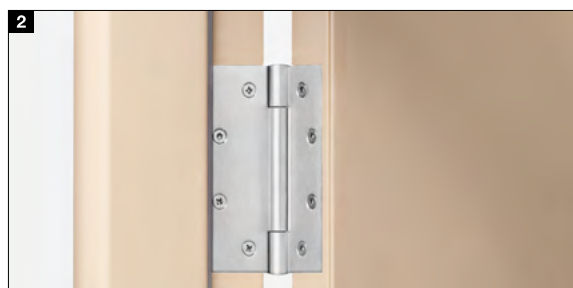
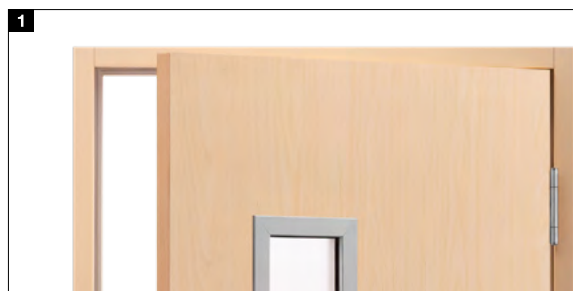


Steel Interior Door ZK-

Comparison of door styles

Steel Interior Doors ZKS

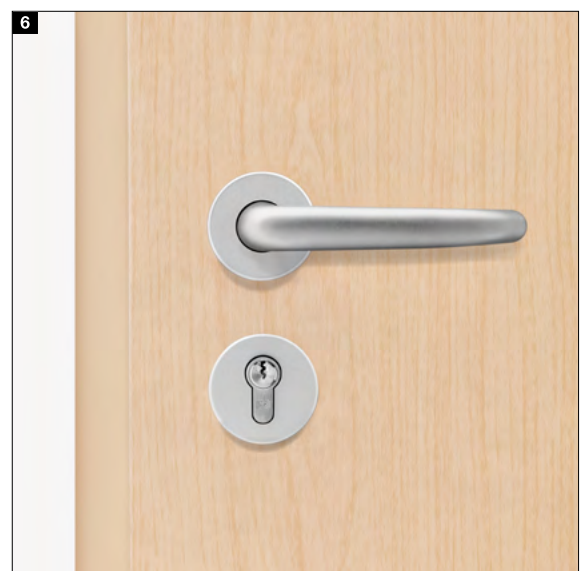
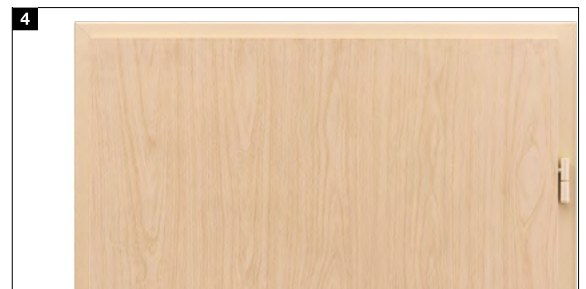
- 1** Flush door leaf with flush transition to door frame fits better with modern decorating styles. The flush design is also very convenient for daily cleaning.
- 2** Fitted with EN 1935 certified oil-free SUS hinges as standard, eliminating the hassle of oil leakage and insufficient lubrication, and guaranteeing a long and stable lifetime.
- 3** European-standard lock with SUS silent latch enables the door to close more quietly; The accurate internal mechanism brings smooth and steady spring back damping.





Steel Interior Doors ZKD

- 4** Rebate door leaf with the German classic 'T' style design brings a stronger sense of hierarchy and a visually slimmer door frame.
- 5** A dedicated screwed-in hinge is standard for a quieter and smoother door-opening experience.
- 6** Various shapes and materials of handles are available, combining ergonomic design with aesthetic style and exquisite simplicity.



Steel Interior Door ZK-

A practical and highly efficient systematic solution

Your doors can be designed to be ceiling-high, stretching the space visually and create harmonious rhythm in your home.



Adjustable Frame VarioFrame & MultiFrame

Flexible adjustment on frame depth

Adjustable frame is a systematic solution to compensate wall thickness deviations. It consists of a main frame and a sub frame. The position of the sub frame can be adjusted flexibly according to the real wall thickness, to achieve the ideal wrap-all effect for most walls with a thickness from 90 to 380 mm.

High efficient installation on site

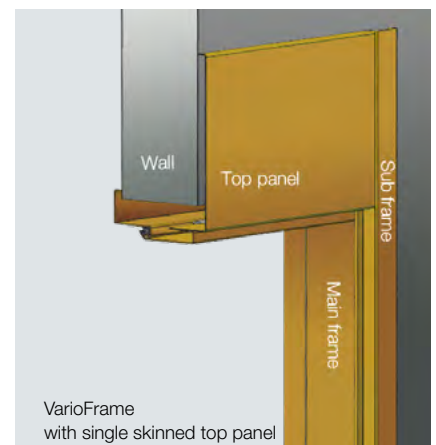
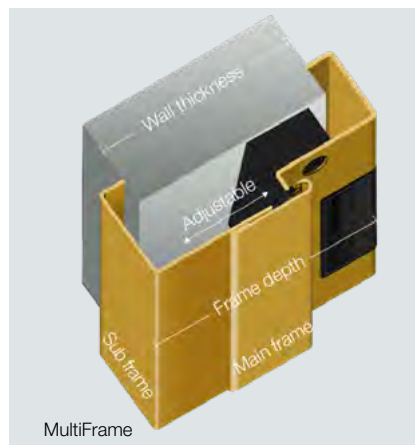
MultiFrame can be fitted on the finished wall easily by fitting method type A with self-tapping screw and PU Styrofoam. There is no welding and no damage to the wall structure.

Bigger clear passage width

Wrap-wall design of adjustable frame can offer wider clear passage width (W-90 mm), which is very important for door openings with limited space.

Single skinned top panel for decoration

For a ceiling height up to 3000 mm, single skinned top panel with same surface to door leaf and frame is available, to a unified and harmonious appearance for your interior decoration.



Hidden Frame Interior Door ZKH

Style hidden in the invisibles

Invisible designs are increasingly appearing in people's lives to find the inner calm and peace. By means of design optimisation and clever colour matching, Hörmann steel hidden frame interior door hides its door frame within the wall, where the door leaf directly transits to the wall and is cleverly integrated with the wall or furniture style.





Hidden Frame Interior Door ZKH

Outward beauty comes from inner tenacity

The surfaces of hidden-frame interior doors incorporate more elements and textures. In addition to nearly 200 powder-coating colours and dozens of Decograin surfaces, customized digital printing is also available. Light and shadow, fabric, leather, stone pattern - do what you want!



Imported intelligent handles

Integrated locking system

The locking mechanism is integrated in the handle, no key rosette is required. All door handles can be locked and unlocked with just one button.

Silent design

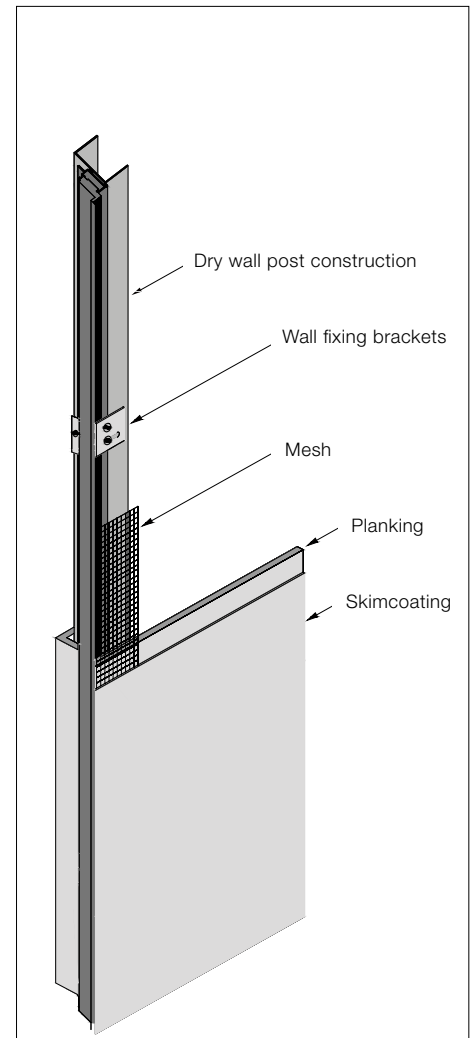
Magnetic silent latch makes the door close quietly.

Puristic aesthetics design

Keep in line with modern decoration style.

Integrated red dot and emergency release

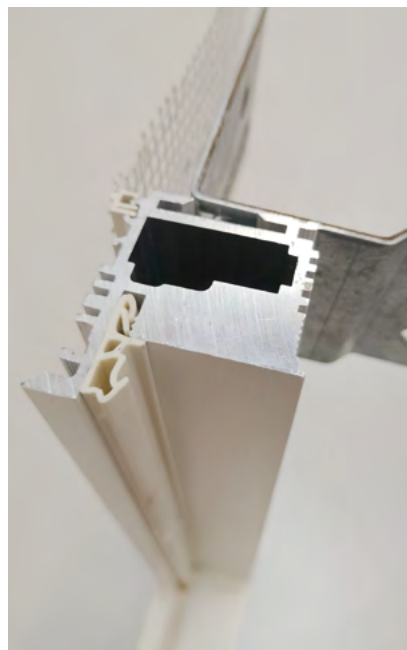
Display locking status and fulfill emergency release function to prevent children from misoperation.



One button double-lock

See if the door is locked or not by the red dot on outdoor side

Unlock the door by pointed objects (e.g. ballpoint pen) in case of emergency



Profile and accessories of hidden frame



Imported concealed hinge

Steel Sliding Door HT / HT40

Suitable for wider openings and space-saving

To choose the appropriate door type, you need to take into account the actual situation of door opening. In addition to common hinged interior doors, Hörmann also provides more space-saving sliding doors. No space for pivoting radius of the door leaf is needed. It is especially suitable for extra wide openings, bringing more flexible options for your room layout.

Various installation methods are available for diverse decorative styles, such as wall-mounted, concealed in the wall, etc. Hörmann also provide decorative side panels with the same surface as door leaf, which not only can hide the sliding door in, but also create a harmonious and unified appearance.



Double-leaf Steel Sliding Door HT
Structural type HT-B



Steel Sliding Door HT / HT40

Operating gently with heartfelt care

No floor track

Equipped with bottom guiding roller that is made of solid wear-resistant material, ensuring a service life of 200,000 cycles. No floor track design solves the inconvenience of passage floor cleaning.

Lightweight experience

Imported suspension system brings excellent load-bearing performance and a lightweight and effortless operation experience.

Closing buffer devices

Four functions in one:

force assisting, stopping, buffering, anti-pinch.

- Open the door manually, and door closes automatically when released (HT only);
- Keep opening at the max. position;
- Gently pull the door, the door closes automatically.

Minimalist design without door frames

HT40 comes standard with a top locking bolt to achieve the indoor locking. No door frame is required. More simple appearance and wider passage width.



Steel Sliding Door HT40
Structural type HT-D



Steel Sliding Door HT40
Structural type HT-E



Seamless glazing
Frameless design, easy to clean.



Optional recessed SUS handle grips;
Optional top lock and red / green indicator.

Diverse Surfaces

Full range of colours for your choice

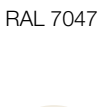
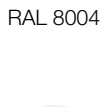
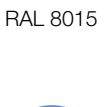
Powder Coating Surfaces

Fresh and bright colours are ideal means to create a warm living space, giving you a cheerful and relaxing life.

Advanced powder coating technology ensures smooth and dense surfaces with rich colours. The resin-based powder is free of organic solvents, effectively avoiding solvent volatilization and pollution like liquid paint does. It is environmentally friendly and healthy, allowing for faster moving into a new house.

Nearly 200 RAL colours are optionally available to well match a variety of decorative styles.



								
RAL 1001	RAL 1002	RAL 1013	RAL 1014	RAL 1015	RAL 1019	RAL 1032	RAL 3018	RAL 5002
								
RAL 5003	RAL 5005	RAL 5009	RAL 5010	RAL 5012	RAL 5013	RAL 5015	RAL 5019	RAL 5021
								
RAL 5022	RAL 5024	RAL 6019	RAL 6021	RAL 6027	RAL 6034	RAL 7000	RAL 7001	RAL 7004
								
RAL 7005	RAL 7012	RAL 7015	RAL 7016	RAL 7022	RAL 7024	RAL 7032	RAL 7033	RAL 7035
								
RAL 7036	RAL 7037	RAL 7038	RAL 7039	RAL 7040	RAL 7042	RAL 7043	RAL 7044	RAL 7045
								
RAL 7047	RAL 8004	RAL 8012	RAL 8015	RAL 8025	RAL 8028	RAL 9001	RAL 9002	RAL 9003
								
RAL 9010	RAL 9016	RAL 9017	TD114-5MJ					

Silkgrain Surfaces - Range 1

Silkgrain is a new steel sheet surface achieved by advanced 3D print pre-coating technology (PPM), overprinting layer by layer, presenting natural and realistic textures and 3D sense of touch. The surfaces comply with the SVHC testing requirements of REACH regulation, and obtain the environmental certification of RoHS, which is a strong assurance of your health.



Acacia



Pinaster



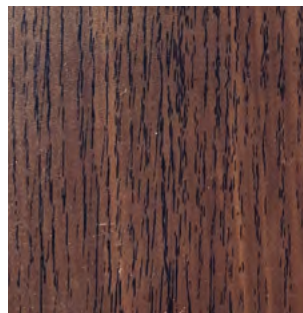
Nulsen



Wing White



Moon Grey



Rose Wood



Pearly Brown

RoHS Certification



Powder Coating Surfaces



Silkgrain Surfaces - Range 1

Diverse Surfaces

Vivid wood-like textures

Decograin Surfaces - Range 1 & Range 2

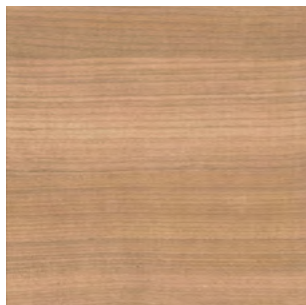
Our fine Decograin film is tightly attached to the galvanized steel sheet of door leaf through an advanced heat-pressing procedure. The timber designs not only offer a natural-looking, eye-pleasing appearance for residential and public use but also are easy to maintain. Meanwhile, the tested surface achieves excellent general durability and UV resistance.



Granada Maple



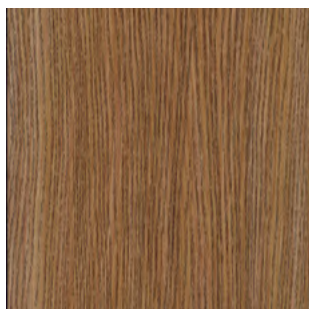
Kings Oak



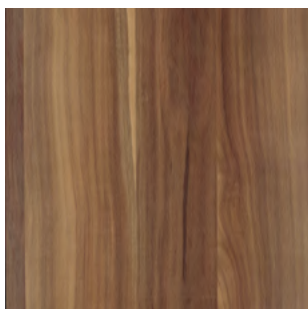
Malaga Cherry



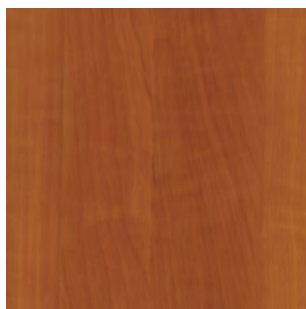
Golden Oak



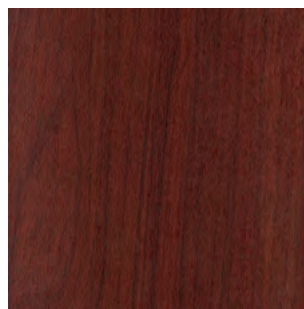
Hungary Ash Cognac



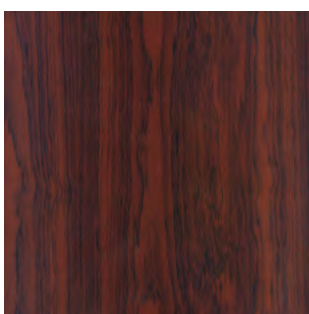
Wallis Plum Natural



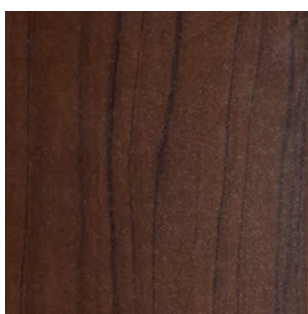
Meran Apple



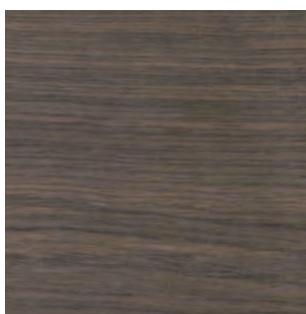
Mahogany



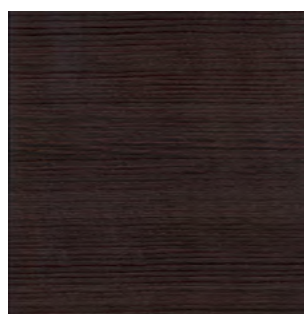
Dark Mahogany



Dark Sandalwood



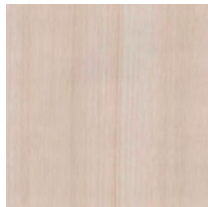
Horizontal Gray Oak



Horizontal Dark Oak

Decograin Surfaces - Range 3

Various Decograin surfaces with flexible textures and colours present natural 3D wood patterns and create a cozy atmosphere. Certified by German SKZ, it guarantees excellent outdoor weather resistance, colour fastness, and ease of cleaning and maintenance.



White Ash
DEC1001



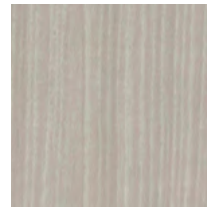
Burger Oak
DEC1002



Light Ash
DEC1003



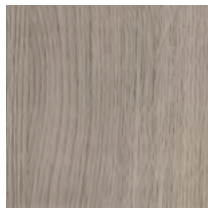
Light Teak
DEC1004



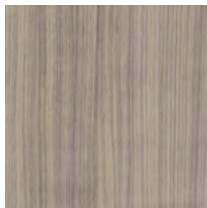
Cathaya
DEC1005



Algeciras Oak
DEC1006



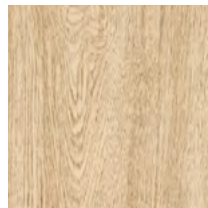
Granada Oak
DEC1007



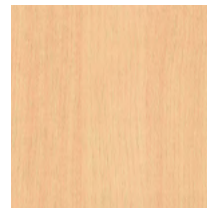
Metasequoia
DEC1008



Light Norman Oak
DEC1009



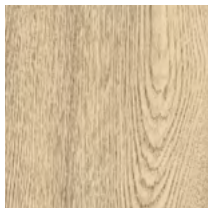
Norman Oak
DEC1010



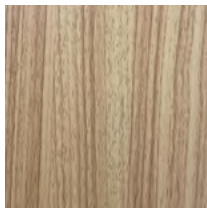
Yellow Maple
DEC1012



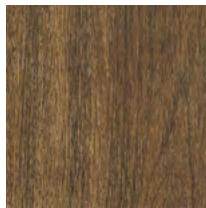
Tawny Oak
DEC1013



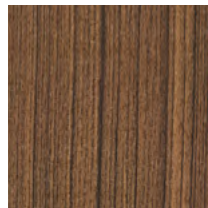
Grey Norman Oak
DEC1014



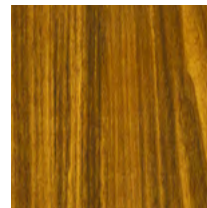
Light Beech
DEC1015



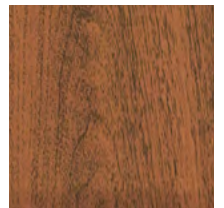
Dark Sapele
DEC2001



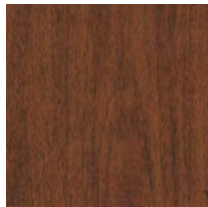
Teak
DEC2002



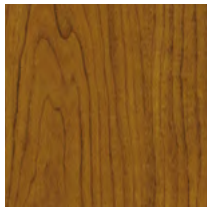
Light Mahogany
DEC2003



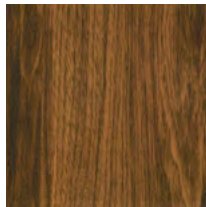
Golden Birch
DEC2004



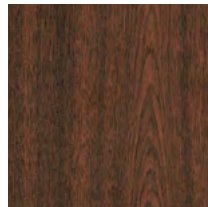
Beech
DEC2005



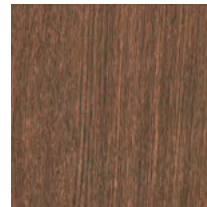
North American Red Oak
DEC2006



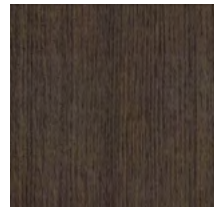
Arteixo Oak
DEC2007



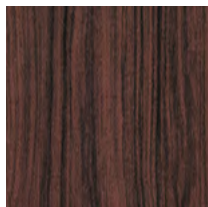
Thin Grained Mahogany
DEC2008



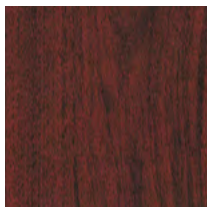
Brown Cigarwood
DEC2009



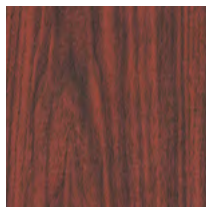
Cassia Siamea
DEC2010



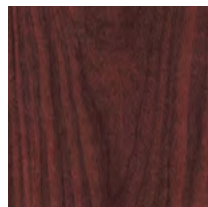
Red Sandalwood
DEC2011



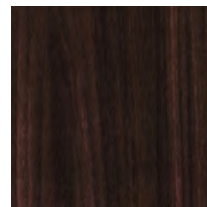
Korean Pine
DEC2012



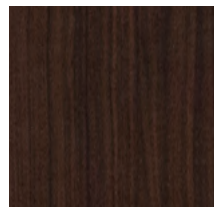
Burgundy Cherry
DEC2013



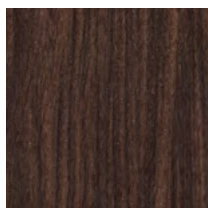
American Garnet Oak
DEC2014



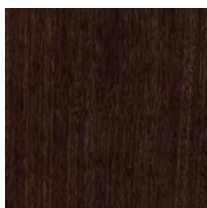
Sapele
DEC2015



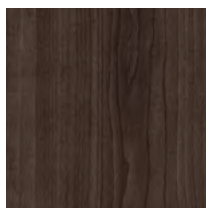
Wide Grained Mahogany
DEC2016



Black Cherry
DEC2017



Dark Oak
DEC3001



Ebony
DEC3002



Cigarwood
DEC3003

Hardware and Accessories

Tested through hundreds of thousands of opening and closing cycles

Lever handle

Nylon lever handle



H-110 / D-110
in rose



H-110 / D-110
in rose



H-110 / D-110
in short plate



H-110 / D-110
in short plate

Aluminium or stainless steel lever handle



D-110
in short plate



D-110
in rose



D-310
in short plate



D-310
in rose



D-410
in rose only

Stainless steel lever handle



D-2110 / H-2110
in rose



D-2110 / H-2110
in short plate

Vintage-style lever handle



F4, aluminium



F45-R, brass



F73, brass

Aluminum-magnesium alloy lever handle



H3110-1



H3110-2



H3110-3



H3110-4



H3110-5



H3110-6



Black / Grey / Golden

Minimalist-style lever handle

Integrated locking mechanism with one-button locking design from the indoor side.



H50, White



H50, Dark Grey



H50, Silver



H50, Black



GF-R ●



GF-L ● ● ●



GF-A ● ● ●

Knob and handle bar

Nylon / Aluminum / Stainless Steel Handle for sliding door



K-130
in short plate / rose



HOE 150
SUS handle bar



Recessed SUS handle grips

Hardware and Accessories

Quality is revealed in every detail

Door leaf type



Flush door leaf



Rebated door leaf

Hinge



SUS maintenance-free hinge



Black hinge



Concealed hinge



Screwed-in hinge

Sealing



Multi-chamber hollow seal



Retractable bottom seal



Door stopper



Magnetic door stopper



Door stopper

Lock and cylinder



HML01 SUS silent lock set



Key / key cylinder



Key / knob cylinder



HML11 silent lock set
Key / knob cylinder with 3 keys



HML12 silent lock set
Key / key cylinder with 3 keys
Key / knob cylinder with 3 keys

Glazing, Top Elements and Louver

Meet the demands for visibility, brightness, and ventilation

Glazing for steel interior doors

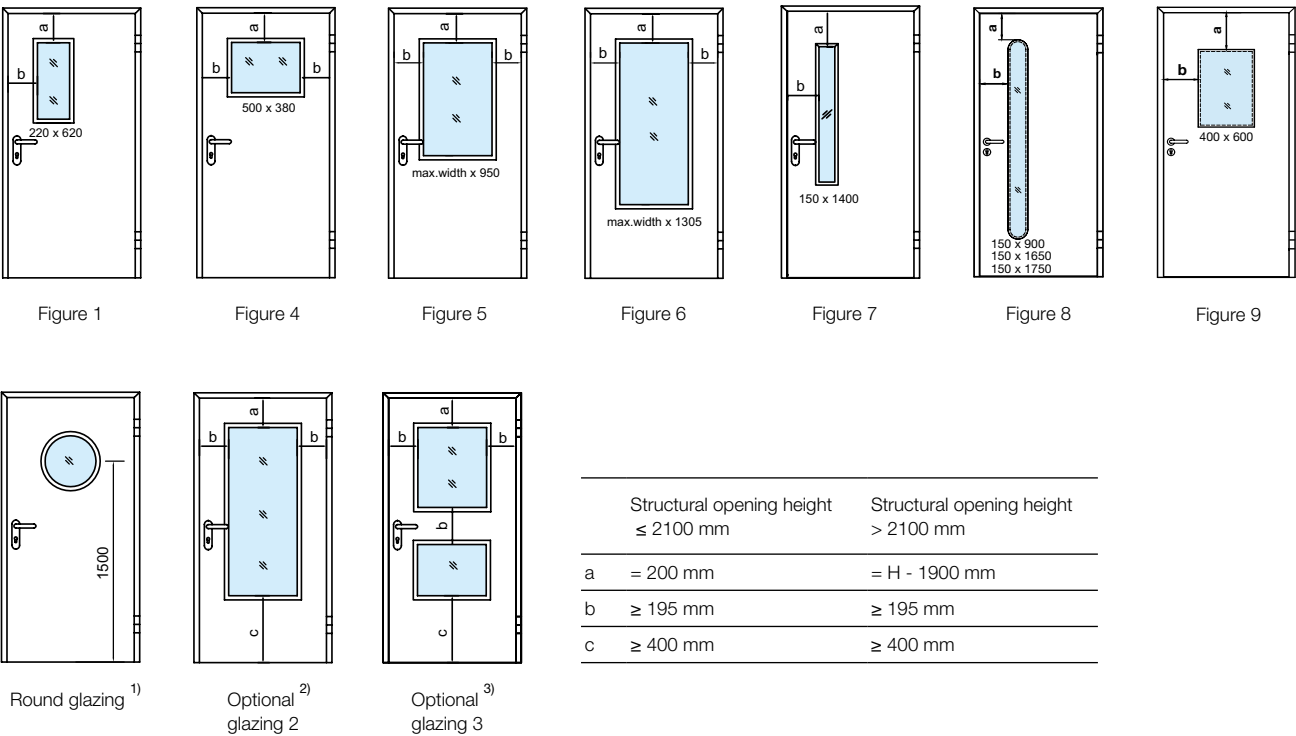
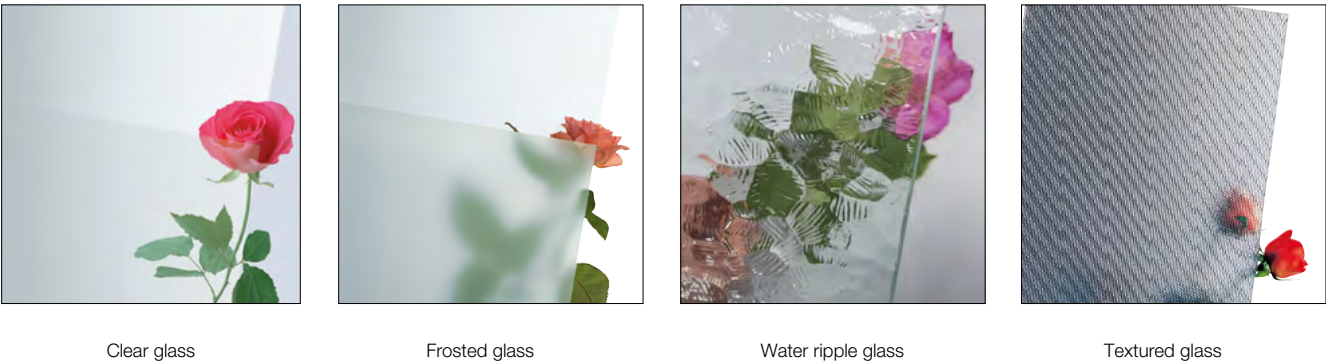


Figure 1, Figure 4, Figure 5, Figure 6, Figure 7, Figure 8, Figure 9, Round glazing, Optional glazing 2, and Optional glazing 3 are applicable to ZK-.
Figure 1, Figure 4, Figure 5, Figure 6, Optional glazing 2, and Optional glazing 3 are applicable to HT.
Figure 1, Figure 4, Figure 7, Figure 8, Figure 9, and Round glazing are applicable to HT40.

¹⁾ Diameter of stainless steel or galvanized steel round glazing $\varnothing = 300$ mm; Diameter of seamless round glazing $\varnothing = 400$ mm.
²⁾ Max. height up to ≤ 1800 mm.
³⁾ If required, please consult the technical department.

Glass for steel interior doors



Glazing frame for steel interior doors



Aluminium frame



Slimline aluminium frame

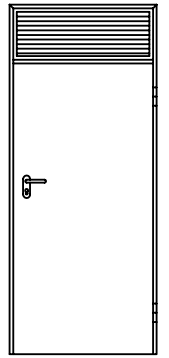
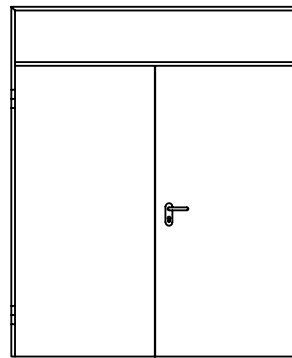
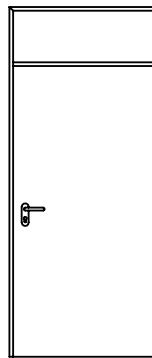
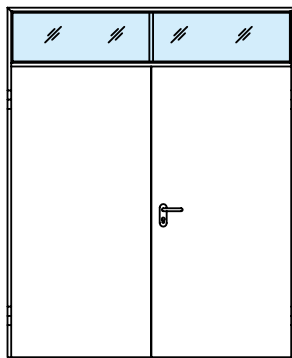
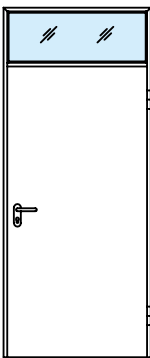


Seamless glazing



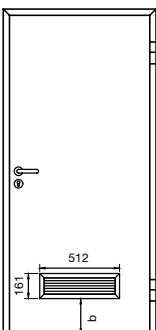
Round galvanized steel /
stainless steel frame

Top light / top panel / top louver

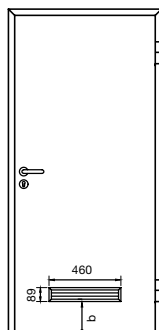


* If the structural opening width is ≥ 2500 mm or the area of top light / top louver is ≥ 2 m², a mullion will be applied.

Louver on door leaf



Steel louver
(Applicable to ZK-)



Nylon louver
(Applicable to ZK-, HT, HT40)

Please note the critical dimension below when ordering.
 $b \geq 150$ mm

Technical Data

Professional selection service for your requirement

	Steel interior door ZKS	Steel interior door ZKD	Hidden frame interior door ZKH
Technical Parameters			
Door leaf thickness	40 mm	40 mm	40 mm
Door leaf type	Flush	Rebated	Flush
Infill	Honeycomb paper	Honeycomb paper	Honeycomb paper
Steel sheet thickness of door leaf	0.6 / 0.8 mm	0.6 / 0.8 mm	0.6 / 0.8 mm
Door frame	Integrally molded frames with R groove		Imported aluminum hidden frame
Standard frame depth	114 mm	114 mm	Visible frame depth 40 mm
Steel sheet thickness of door frame	1.5 mm	1.5 mm	-
Hinge	SUS butterfly hinge	Screwed-in hinge	Concealed hinge
Sealing	Multi-chamber hollow seal	Multi-chamber hollow seal	Multi-chamber hollow seal
Limit size (WxH)	ZKS-1:1350 × 2500 / 1300 × 3000 mm ZKS-2:2500 × 2500 / 2300 × 3000 mm	ZKS-1:1350 × 2500 mm ZKS-2:2500 × 2500 mm	ZKH-1:1300 × 3000 mm
Performance Parameters			
Thermal insulation *	2.4 W / (m ² ·K)	3.0 W / (m ² ·K)	-
Acoustic insulation *	32 - 33 dB	31 dB	-
Airtight*	Class 8	-	-
Configuration			
Leaf surfaces	Powder Coating, Decograin, Silkgrain	Powder Coating, Decograin Range 1 & 2	Powder Coating, Decograin
Frame surfaces	Powder Coating Decograin is available for VarioFrame	Powder Coating	Visible frame RAL9010
Standard handle	Black nylon lever handle in short plate	Black nylon lever handle in short plate	H2110 SUS lever handle in rose Black nylon lever handle in rose / short plate
Optional handle	Other interior door handles and minimalist-style handles		
Lock	HML01 SUS lock with silent latch	HML01 SUS lock with silent latch	HML01 SUS lock with silent latch
Cylinder	Standard: key-key cylinder Optional: key-knob cylinder	Standard: key-key cylinder Optional: key-knob cylinder	Standard: key-key cylinder Optional: key-knob and half cylinder
Glazing	Glazings with aluminium frame, Seamless glazings	Glazings with aluminium frame, Seamless glazings	-
Louver on door leaf	○	○	-
Concealed hinge	○	-	●
VarioFrame / MultiFrame	○	-	-
Top / side elements	○	-	-

* The values were tested when the door is fitted with threshold with seal

	Manual sliding door HT	Manual sliding door HT40
Technical Parameters		
Door leaf thickness	30 mm	40 mm
Infill	Honeycomb paper	Honeycomb paper
Steel sheet thickness of door leaf *	0.6 / 0.8 mm	0.6 / 0.8 mm
Door frame	Flat frame as standard	No frame, flat frame as an option
Steel sheet thickness of door frame	1.5 mm	1.5 mm (optional)
Limit size (WxH)	HT-1: 1500 × 2500 mm HT-2: 3000 × 2500 mm	HT40-1: 1300 × 2900 mm
Configuration		
Leaf surfaces	Powder Coating, Decograin Range 1 & 2	Powder Coating, Decograin Range 1 & 2
Handle	HOE150 as standard	Recessed SUS handle grips as an option
Lock	Lock for sliding doors	Top Locking
Cylinder	Standard: key-key cylinder Optional: key-knob cylinder	Red / green indicator
Glazing	Glazings with aluminium frame	Seamless glazings
Louver on door leaf	○	○
Structural type	Six types, such as wall-mounted, concealed in the wall	Three types, such as wall-mounted, concealed in the wall

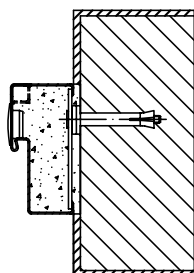
● as standard ○ optional

* For HT sliding door, when structural opening width of single-leaf door > 1200 mm, or structural opening width of double-leaf door > 2350 mm, 0.8 mm is applicable.
For HT40 sliding door, when structural opening width of single-leaf door > 1040 mm, or structural opening height > 2440 mm, 0.8 mm is applicable.

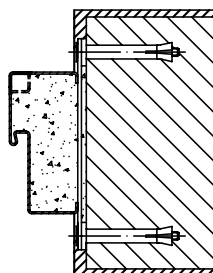
Technical Data

Frame fitting methods

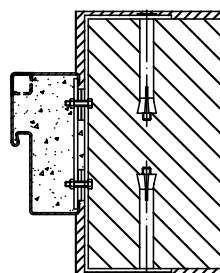
Concrete block / brick walls



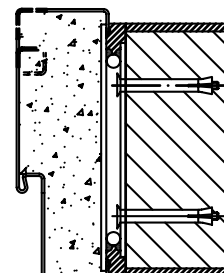
Type A
Central hole in frame



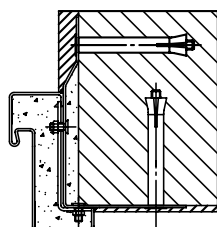
Type B
Tie plate external to frame



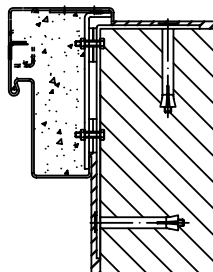
Type C
Double hole internal tie plate



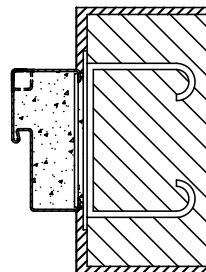
Enclosed wall
frame connection



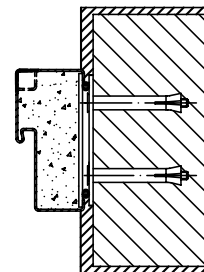
Corner frame connection



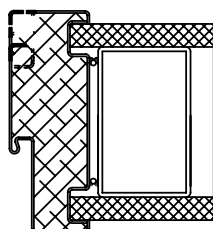
Opposite side
corner frame connecting



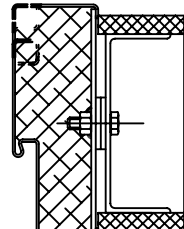
Type D1
Weld on anchor plate



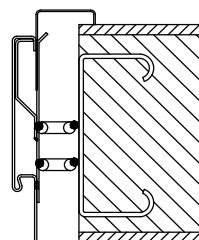
Type D2
Weld with plug/screw fitting



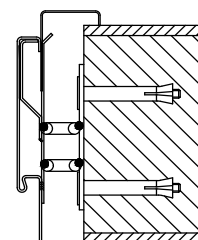
Type E
Installation onto the gypsum
board of steel grid



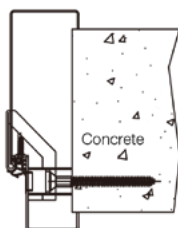
Type F
Installation onto the gypsum
board of steel grid



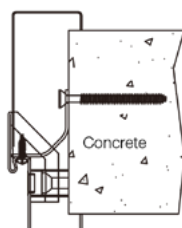
Type D1
Weld on anchor plate
Applicable for VarioFrame



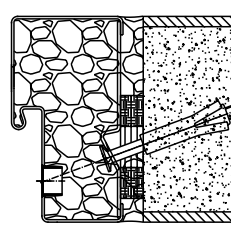
Type D2
Weld with plug/screw fitting
Applicable for VarioFrame



Type A
Central hole in frame
Applicable for MultiFrame

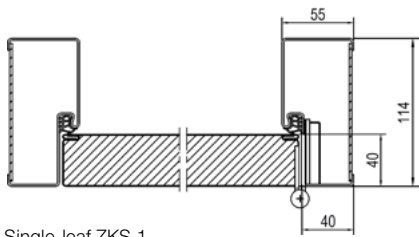


Type G
plate in the frame
Applicable for MultiFrame

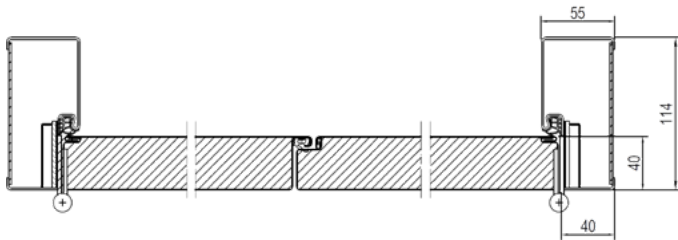


Type A1
Bevel hole in frame

Steel interior door ZKS



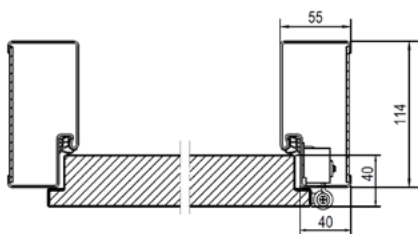
Single-leaf ZKS-1



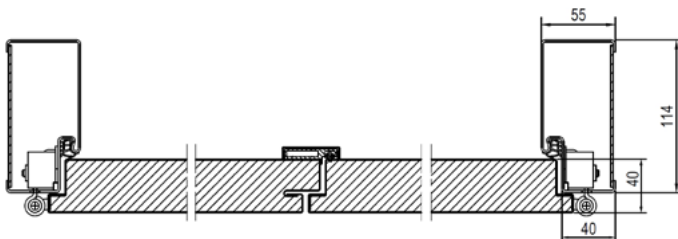
Double-leaf ZKS-2



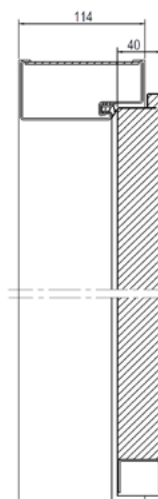
Steel interior door ZKD



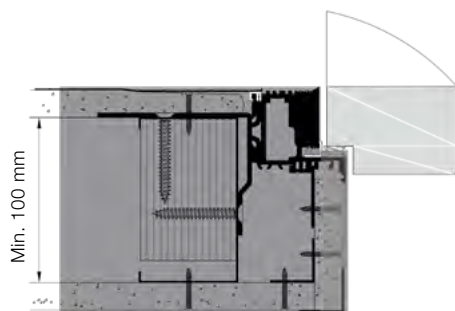
Single-leaf ZKD-1



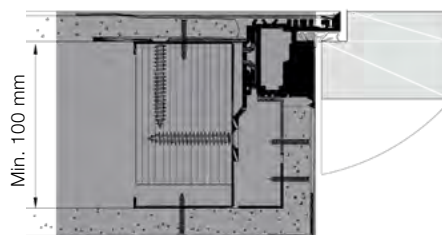
Double-leaf ZKD-2



Hidden frame interior door ZKH



Outward door

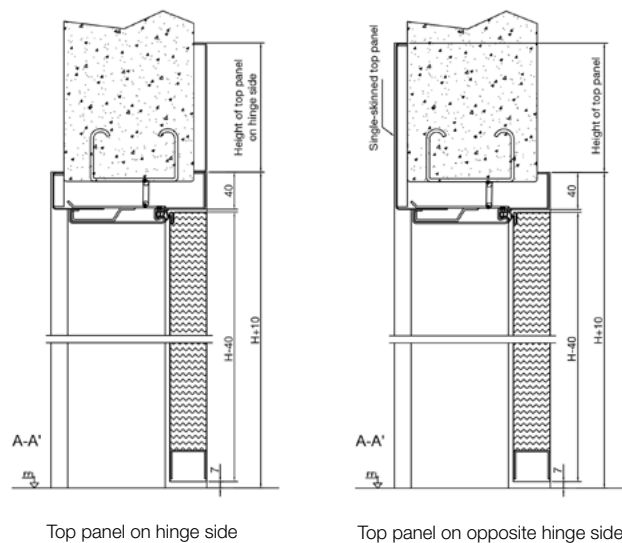


Inward door

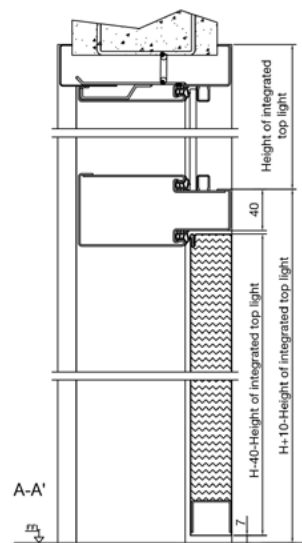
Technical Data

VarioFrame

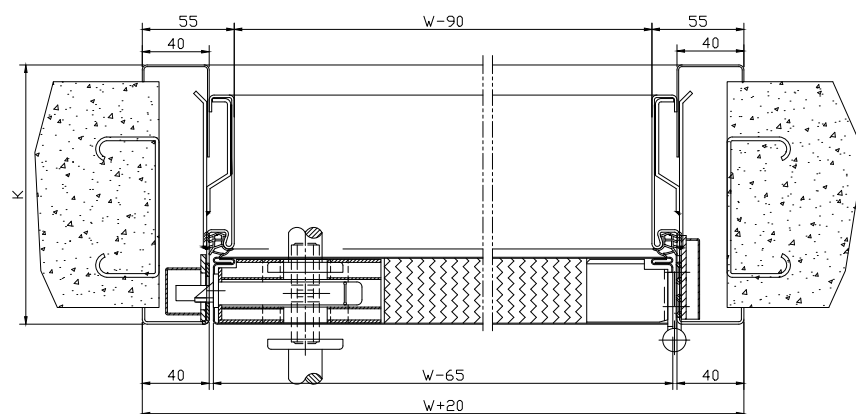
Side view of VarioFrame with single-skinned top panel



Side view of VarioFrame with integrated top light



Top view of door with VarioFrame



W: opening width
K: frame depth

Leaf width = $W - 65 \text{ mm}$
Overall frame width = $W + 20 \text{ mm}$
Clear passage width = $W - 90 \text{ mm}$

Designed wall thickness	Back bend = 10 mm		Back bend = 14 mm		Back bend = 20 mm	
	Ordering frame depth	Adaptable range of wall thickness	Ordering frame depth	Adaptable range of wall thickness	Ordering frame depth	Adaptable range of wall thickness
110	--	--	--	--	150	100 - 135
120	--	--	150	112 - 147	160	110 - 145
130	150	120 - 155	160	122 - 157	170	120 - 155
150	170	140 - 175	180	142 - 177	190	140 - 175
200	220	190 - 225	230	192 - 227	240	190 - 225
250	270	240 - 275	280	242 - 277	290	240 - 275
300	320	290 - 325	330	292 - 327	340	290 - 325
360	380	350 - 385	390	352 - 387	400	350 - 385
370	390	360 - 395	400	362 - 397	--	--
380	400	370 - 405	--	--	--	--

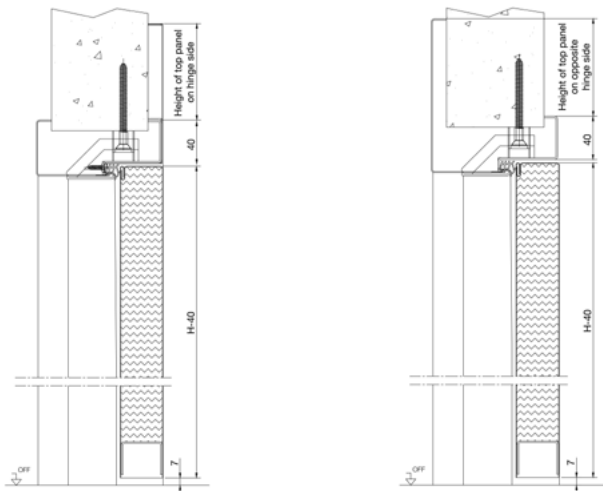
Size limitation of doors with VarioFrame		Single-leaf	Double-leaf
Opening width	Min.	700	1000
	Max.	1300	2500
Opening Height *	Min.	1600	1600
	Max.	3000	3000

* Referring to the total height for the door and top panel.

▲ When Decograin surface is selected, the direction of Decograin texture on top beam and single-skinned top panel will be 90° rotated from the direction of Decograin texture on door leaf and vertical frame.

Please order frame depth in 5 mm increment.

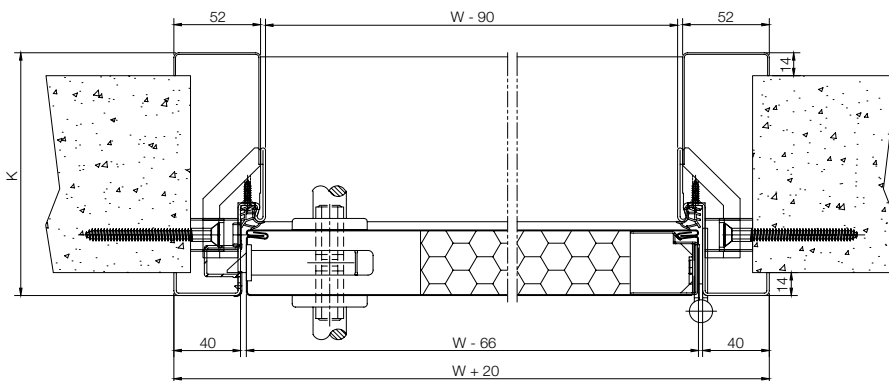
Side view of MultiFrame with single-skinned top panel



Top panel on hinge side

Top panel on opposite hinge side

Top view of door with MultiFrame



W: opening width
K: frame depth

Leaf width = $W - 66$ mm
Overall frame width = $W + 20$ mm
Clear passage width = $W - 90$ mm

Designed range of wall thickness	Back bend = 14 mm	
	Ordering frame depth	Adaptable range of wall thickness
95 - 110	148	90 - 120
111 - 125	163	106 - 135
126 - 140	178	121 - 150
141 - 155	193	136 - 165
156 - 170	208	151 - 180
171 - 185	223	166 - 195
186 - 200	238	181 - 210
201 - 215	253	196 - 225
216 - 230	268	211 - 240
231 - 245	283	226 - 255

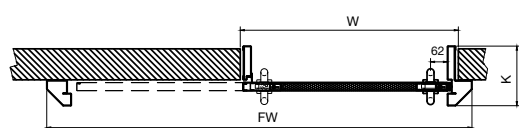
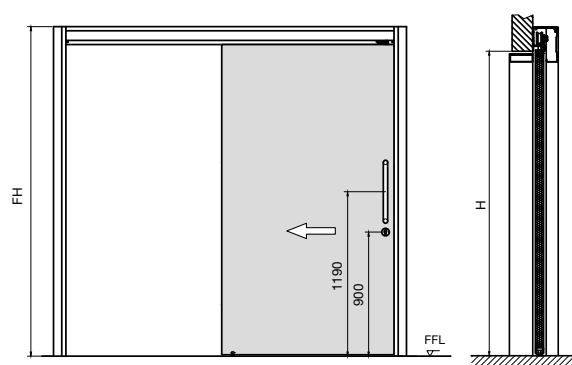
Designed range of wall thickness	Back bend = 14 mm	
	Ordering frame depth	Adaptable range of wall thickness
246 - 260	298	241 - 270
261 - 275	313	256 - 285
276 - 290	328	271 - 300
291 - 305	343	286 - 315
306 - 320	358	301 - 330
321 - 335	373	316 - 345
336 - 350	388	331 - 360
351 - 365	403	346 - 375
366 - 380	418	361 - 390

Size limitation of doors with MultiFrame		Single-leaf
Opening width	Min.	700
	Max.	1300
Opening Height *	Min.	1900
	Max.	2500

Technical Data

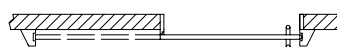
Manual sliding door HT

Single-leaf sliding door HT-1

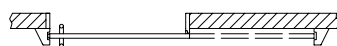


Single-leaf

Opening direction of sliding door HT



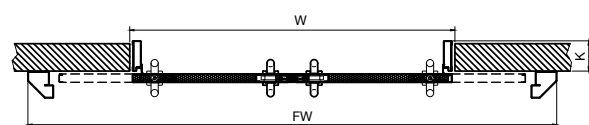
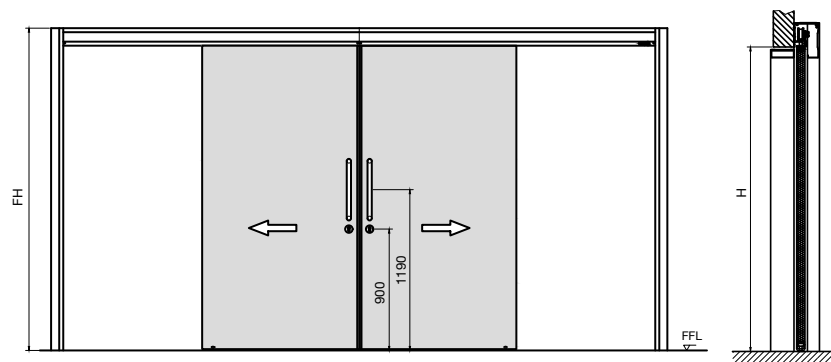
Opening to left



Opening to right

W = Structural opening width
H = Structural opening height
FW = Overall frame width
FH = Overall frame height
K = Frame depth

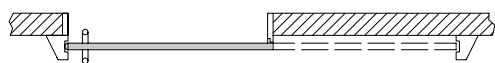
Double-leaf sliding door HT-2



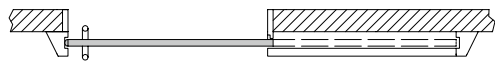
Double-leaf

Structural types of sliding door HT

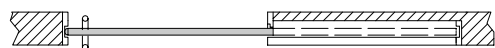
HT -A



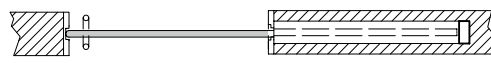
HT -B



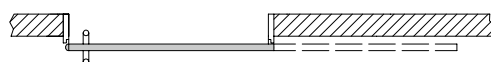
HT -C



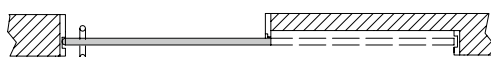
HT -D



HT -E

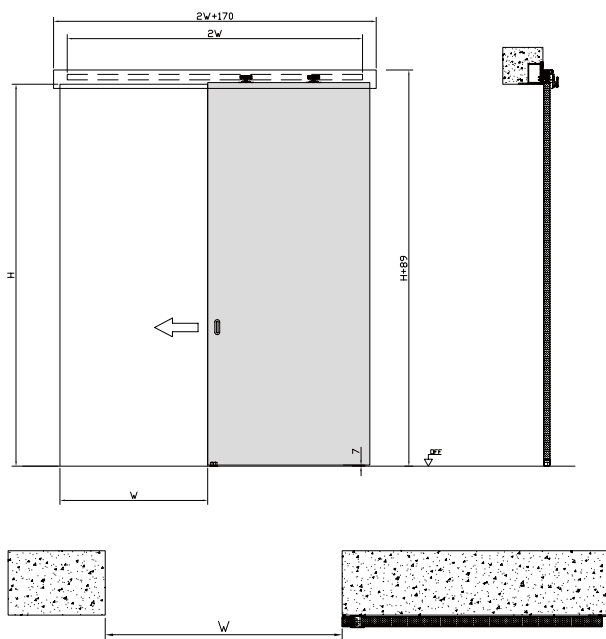


HT -F

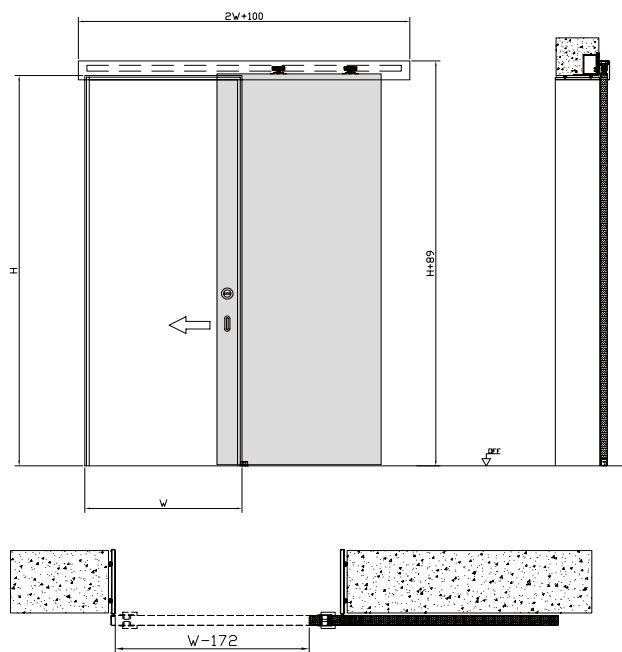


Single-leaf sliding door HT40-1

No lock, no flat frame



Equipped with lock and flat frame



Clear passage width of sliding door HT40-1

	No flat frame	With flat frame
No lock	W	W-52
With lock	W-120	W-172

Structural types of sliding door HT40-1

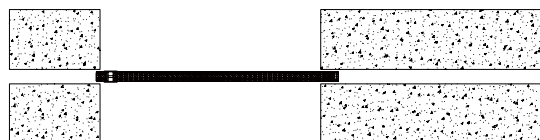
HT-E, equipped with flat frame



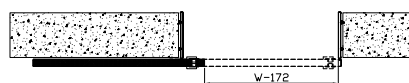
HT-E, no flat frame



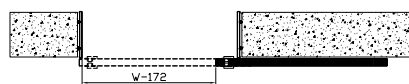
HT-D



Opening direction of sliding door HT40-1



Opening to left



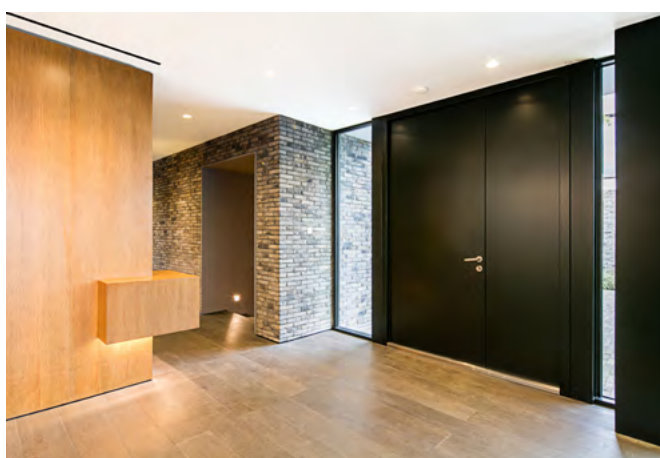
Opening to right

* Only illustrates the door with lock and flat frame for reference.

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