

// Certified in accordance with British Standard



# Steel Doors for all Applications

Top Quality, Durability, Safety, Security



# Hörmann Advantages

- **Wide range of products**
- **Modern design**
- **High-quality hardware**
- **Decograin and qualified powder coating for door surfaces**
- **Outstanding insulation and sealing**
- **ISO certified production**



## A Whole Range of High Quality Doors to Meet Your Needs



Take advantage of the achievements gained through more than 50 years of experience. By using Hörmann fire-rated doors, you are assured decades of quality, protection and safety. All Hörmann fire-rated doors meet British Standard and are strictly in design production and service according to ISO 9001 requirement. Install Hörmann fire-rated doors with complete confidence on safety.

In addition Hörmann doors offer an exquisite appearance. This is particularly important where it is necessary to fit doors with varying dimensions on the same floor of a building. Offering both appearance and optimum fire protection Hörmann meets the requirements of architects as well as construction companies and authorities. On this account Hörmann fire-rated doors are used in industrial and public buildings, apartment compounds, hospitals and at airports.



Hörmann residential doors are robust, secure, insulated and acoustic-rated.

Hörmann offers a broad variety of internal doors and sliding doors to match apartment doors, which can be equipped with various types of glazing or louvers.

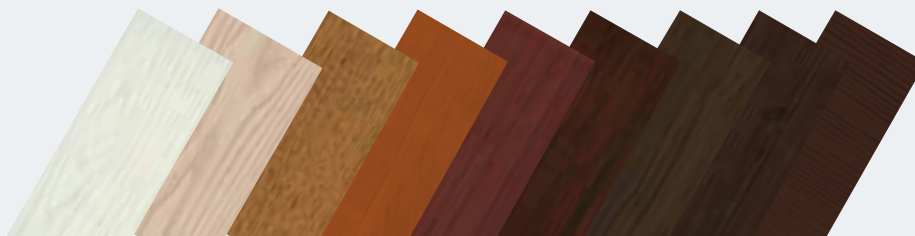
On request Hörmann doors can be supplied in different beautiful RAL colours, panelled or in a range of attractive timber design made of German PVC film.



## Create a Friendly Atmosphere

Choose From a Wide Range of Colours, Decograins and Panelled Door Styles

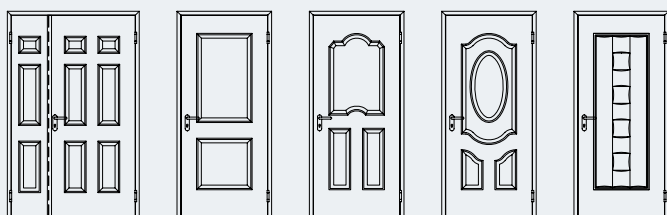
White Ash Grey Ash French Oak Italian Cherry Mahogany Dark Mahogany Dark Sandalwood Linea Tabac Horizontal Oak Dark



- High-grade environmentally friendly powder coating for more appealing aesthetics
- High quality foil coating creates a real wood look
- All surface finishes are exceptionally durable
- Choose the decorative finish that best matches your interior

### A wide choice

Besides a broad spectrum of colours and PVC designs, we also offer a wide range of panelled door styles for HC 60 BS-1/2, HAS/HAD-1/2 to suit your taste.



The colours and surface finishes illustrated are subject to the limitations of the printing process.



# HAS/HAD - 1/2

## Apartment Door

### Standard Fittings

|                           |               |
|---------------------------|---------------|
| Door type                 | HAS/HAD - 1/2 |
| Leaf thickness (mm)       | 50            |
| Leaf steel thickness (mm) | 0.8           |
| Frame depth (mm)          | 114           |
| Infill                    | Mineral wool  |

### Security bolts

|                  |   |
|------------------|---|
| Single-leaf door | 2 |
| Double-leaf door | 4 |

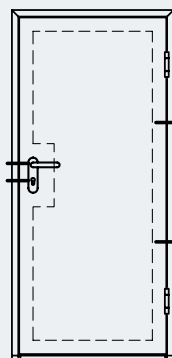
### Door size (HAS)

|                       | Width       | Height      |
|-----------------------|-------------|-------------|
| Single-leaf door (mm) | 600 - 1300  | 1000 - 2500 |
| Double-leaf door (mm) | 1000 - 2500 | 1000 - 2500 |

### Door size (HAD)

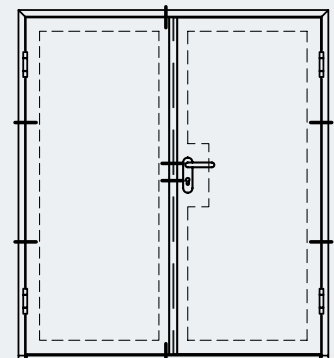
|                       | Width       | Height      |
|-----------------------|-------------|-------------|
| Single-leaf door (mm) | 400 - 1300  | 1000 - 2500 |
| Double-leaf door (mm) | 1000 - 2500 | 1000 - 2500 |

Single-leaf door



HAS/HAD-1

Double-leaf door



HAS/HAD-2

### Door leaf with continuous reinforcement

Steel frame construction gives the door a very high degree of stability.

### Security bolts

Security bolts protect the door against forced opening.

### Acoustic and thermal insulation as an option

Apartment Doors can easily be acoustic-rated and thermally insulated by using a retractable bottom seal or threshold with seal.

Sound insulation value: 33-34 dB

Thermal insulation value: 1.7-1.8 W/m<sup>2</sup>/K

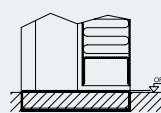
(all values are laboratory values with sealed threshold)



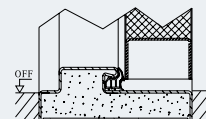
HAS



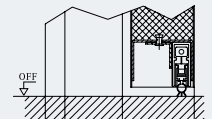
HAD



Threshold flat



Threshold with seal



Retractable bottom seal



# HM - 1/2

## Multi-purpose Door

### Standard Fittings

|                           |                                  |  |
|---------------------------|----------------------------------|--|
| Door type                 | HM - 1/2                         |  |
| Leaf thickness (mm)       | 50                               |  |
| Leaf steel thickness (mm) | 0.8                              |  |
| Frame depth (mm)          | 114                              |  |
| Infill                    | Mineral wool/<br>paper honeycomb |  |

### Security bolts

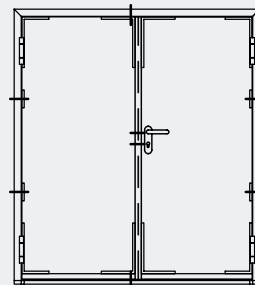
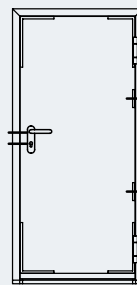
|                  |   |  |
|------------------|---|--|
| Single-leaf door | 2 |  |
| Double-leaf door | 4 |  |

### Door size

|                       | Width       | Height      |
|-----------------------|-------------|-------------|
| Single-leaf door (mm) | 600 - 1500  | 1600 - 3000 |
| Double-leaf door (mm) | 1000 - 3000 | 1600 - 3000 |

Single-leaf door

Double-leaf door



HM-1

HM-2

### Sound insulation:

Single-leaf door: 33 dB

Double-leaf door: 33 dB

### Thermal insulation:

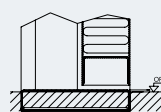
Single-leaf door: 1.7 W/m<sup>2</sup>/K

Double-leaf door: 2.1 W/m<sup>2</sup>/K

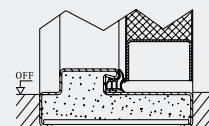
### Threshold:

Three versions of thresholds can be delivered on request.

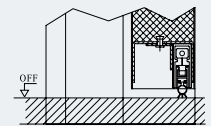
Furthermore, threshold improves sound insulation.



Threshold flat



Threshold with seal



Retractable bottom seal

## Glazing for HM, HAS/HAD, ZKS/ZKD and HT

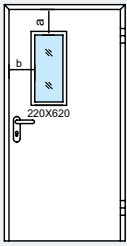


Fig. 1

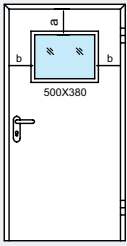


Fig. 4

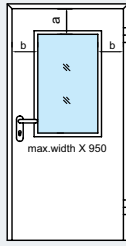


Fig. 5

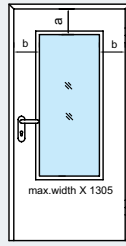
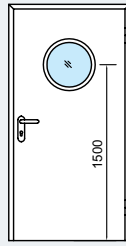
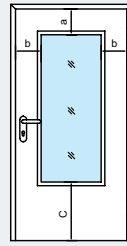


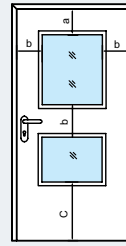
Fig. 6



Round glazing

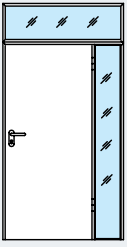


Glazing to choose

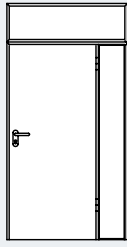


|   | Opening height $\leq 2100$ mm | Opening height $> 2100$ mm |
|---|-------------------------------|----------------------------|
| a | 200 mm                        | Height - 1900 mm           |
| b | $\geq 200$ mm                 | $\geq 200$ mm              |
| c | $\geq 400$ mm                 | $\geq 400$ mm              |

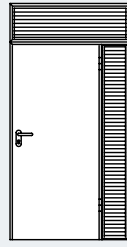
## Top/side elements for HM, HAS/HAD and ZKS/ZKD



Top/side light

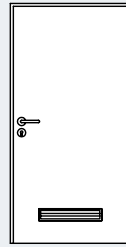


Top/side panel

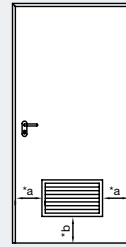


Top/side steel louver only for HM

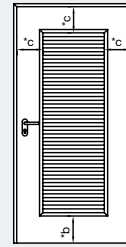
## Louver for HM and ZKS/ZKD



Plastic for ZKS/ZKD



Steel only for HM



\*a  $\geq 150$  mm  
\*b  $\geq 200$  mm  
\*c  $\geq 200$  mm

## Optional Extras



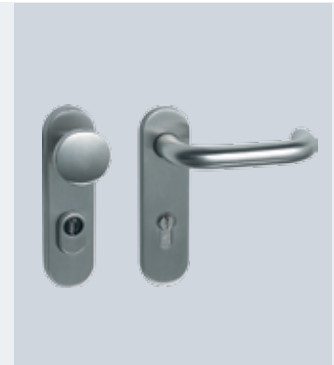
**Spy hole**  
 $\varnothing 15$  mm



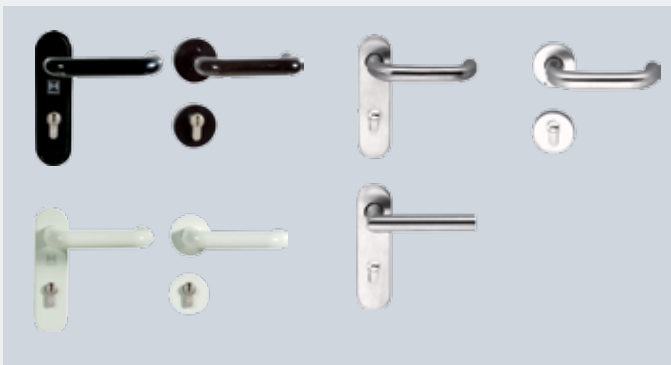
**Electric strike**  
A simple and practical device, guaranteeing safety while being easy to operate.



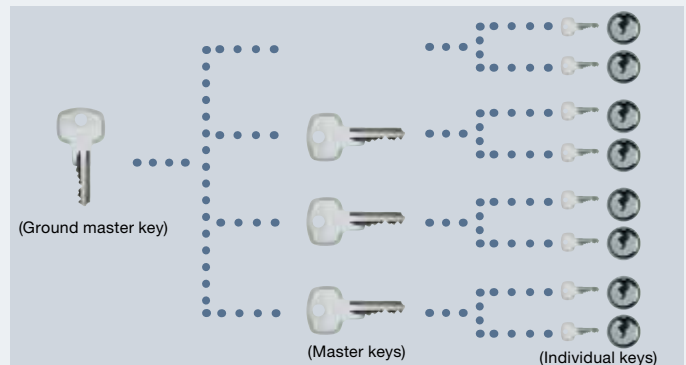
**Special locking system**  
Magnet card lock can also be supplied on request.



**Drill-proof handle sets**  
Drill-proof handle sets according to DIN 18257.



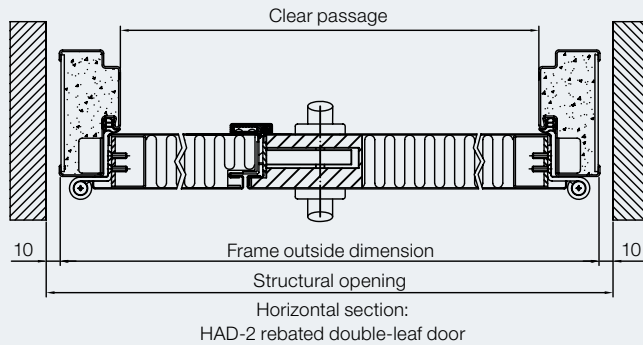
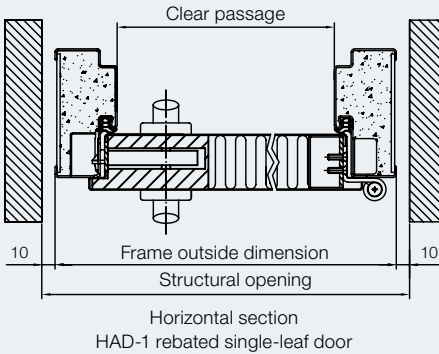
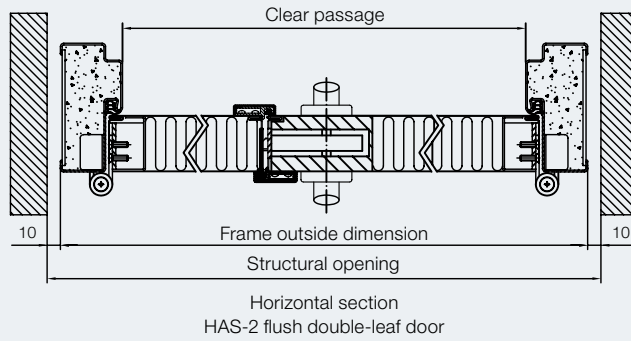
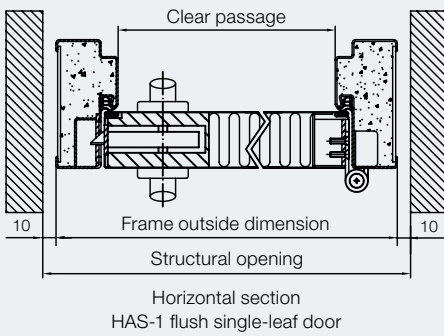
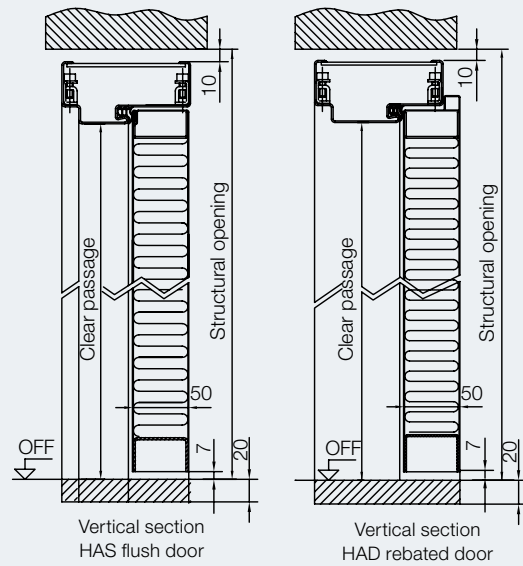
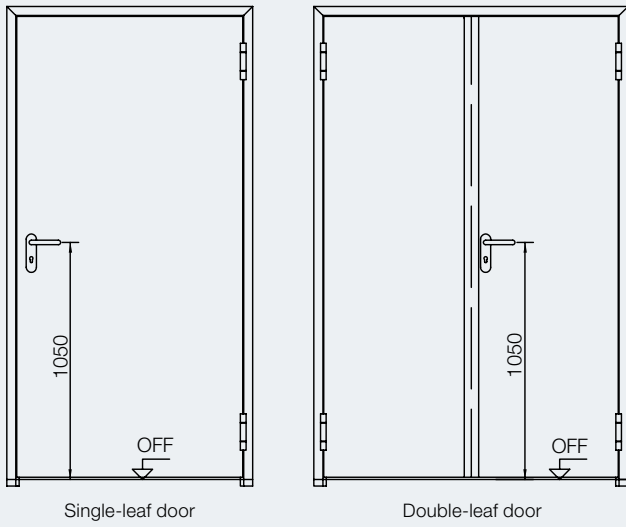
**Handel set**  
Stainless steel and aluminium handle sets with D-110, D-310 and D-410 can be offered on request.



**Master key system**  
In a master key system, the main key opens all the locks in the system although each lock has its own unique key. The size of the master key system can be supplied on request.

# Apartment Doors HAS/HAD

## Technical Data and Size Range

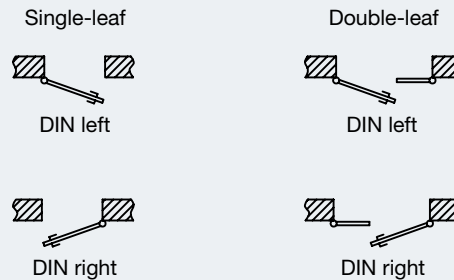


### Standard size range

|                  | Structural opening ordering size width x height | Frame outside dimension* width x height | Clear passage width x height |
|------------------|---|---|------------------------------|
| Single-leaf door | 900 x 2100                                      | 880 x 2090                              | 770 x 2035                   |
|                  | 900 x 2200                                      | 880 x 2190                              | 770 x 2135                   |
|                  | 900 x 2400                                      | 880 x 2390                              | 770 x 2335                   |
|                  | 1000 x 2100                                     | 980 x 2090                              | 870 x 2035                   |
|                  | 1000 x 2200                                     | 980 x 2190                              | 870 x 2135                   |
|                  | 1000 x 2400                                     | 980 x 2390                              | 870 x 2335                   |
|                  | 1100 x 2200                                     | 1080 x 2190                             | 970 x 2135                   |
|                  | 1100 x 2400                                     | 1080 x 2390                             | 970 x 2335                   |
| Double-leaf door | 1200 x 2100                                     | 1180 x 2090                             | 1070 x 2035                  |
|                  | 1200 x 2200                                     | 1180 x 2190                             | 1070 x 2135                  |
|                  | 1200 x 2400                                     | 1180 x 2390                             | 1070 x 2335                  |
|                  | 1500 x 2100                                     | 1480 x 2090                             | 1370 x 2035                  |
|                  | 1500 x 2200                                     | 1480 x 2190                             | 1370 x 2135                  |
|                  | 1500 x 2400                                     | 1480 x 2390                             | 1370 x 2335                  |
|                  | 2000 x 2100                                     | 1980 x 2090                             | 1870 x 2035                  |
|                  | 2000 x 2200                                     | 1980 x 2190                             | 1870 x 2135                  |
|                  | 2000 x 2400                                     | 1980 x 2390                             | 1870 x 2335                  |
|                  | 2200 x 2200                                     | 2180 x 2190                             | 2070 x 2135                  |
| 2200 x 2400      | 2180 x 2390                                     | 2070 x 2335                             |                              |

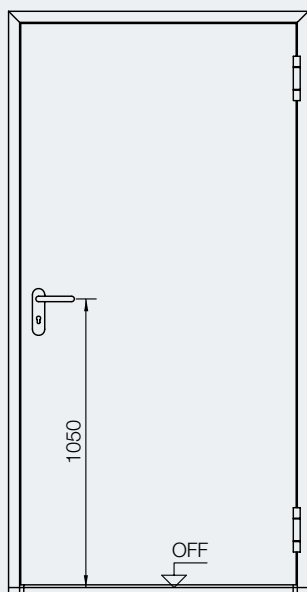
\* Not including recessment

### Opening direction

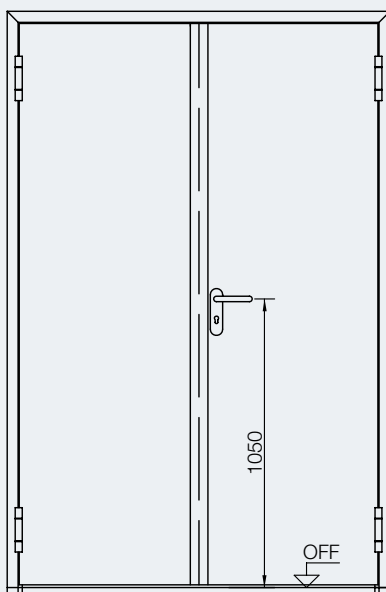


# Multi-purpose Doors HM

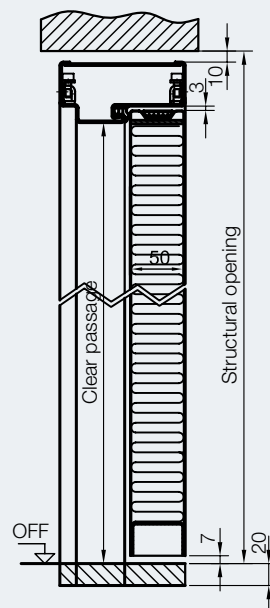
## Technical Data and Size Range



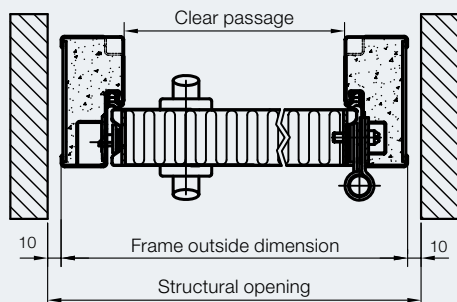
Single-leaf door



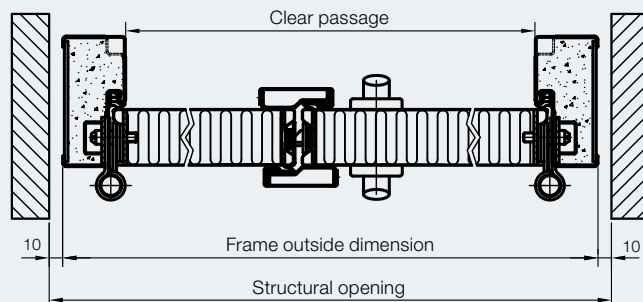
Double-leaf door



Vertical section



Horizontal section  
HM-1 single-leaf door



Horizontal section  
HM-2 double-leaf door

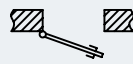
### Standard size range

|                  | Structural opening<br>ordering size<br>width x height | Frame outside<br>dimension*<br>width x height | Clear passage<br>width x height |
|------------------|---|---|---------------------------------|
| Single-leaf door | 900 x 2100  | 880 x 2090                                    | 770 x 2035                      |
|                  | 900 x 2200  | 880 x 2190                                    | 770 x 2135                      |
|                  | 900 x 2400  | 880 x 2390                                    | 770 x 2335                      |
|                  | 1000 x 2100   | 980 x 2090                                    | 870 x 2035                      |
|                  | 1000 x 2200   | 980 x 2190                                    | 870 x 2135                      |
|                  | 1000 x 2400   | 980 x 2390                                    | 870 x 2335                      |
|                  | 1100 x 2200   | 1080 x 2190                                   | 970 x 2135                      |
|                  | 1100 x 2400   | 1080 x 2390                                   | 970 x 2335                      |
| Double-leaf door | 1200 x 2100   | 1180 x 2090                                   | 1070 x 2035                     |
|                  | 1200 x 2100   | 1180 x 2190                                   | 1070 x 2135                     |
|                  | 1200 x 2400   | 1180 x 2390                                   | 1070 x 2335                     |
|                  | 1500 x 2100   | 1480 x 2090                                   | 1370 x 2035                     |
|                  | 1500 x 2200   | 1480 x 2190                                   | 1370 x 2135                     |
|                  | 1500 x 2400   | 1480 x 2390                                   | 1370 x 2335                     |
|                  | 2000 x 2100   | 1980 x 2090                                   | 1870 x 2035                     |
|                  | 2000 x 2200   | 1980 x 2190                                   | 1870 x 2135                     |
|                  | 2000 x 2400   | 1980 x 2390                                   | 1870 x 2335                     |
|                  | 2200 x 2200   | 2180 x 2190                                   | 2070 x 2135                     |
| 2200 x 2400      | 2180 x 2390   | 2070 x 2335                                   |                                 |

\* Not including recessment

### Opening direction

#### Single-leaf

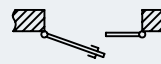


DIN left

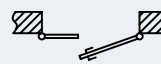


DIN right

#### Double-leaf



DIN left



DIN right