# ALL TYPES OF FRAMES

## CERTIFICATES

→ **Certified for internal application**
1. NATIONAL Certificate of Constancy of Performance 170-UWB-510 (CTO)

→ **Certified for external application**
1. Certificate of Constancy of Performance 2434-CPR-0402 (CTO)

**Complemented with relevant Declaration of Performance**

→ **Certified for burglary resistance**
Classification of Parameters
MLTB-RC-5136-2024 - one leaf
MLTB-RC-5648-2025 - double leaf

## DOOR MANUFACTURED TO CUSTOMER ORDER

### STANDARD

- → door leaf constructed of 2 steel skins 0.75 mm and 0.9 mm, edge rebated 18 x 18 mm, total thickness 65 mm; reinforced for door closer application on both side
- → corner type door frame of steel 1.8 mm; fitted with perimeter rubber gasket and intumescent fire gasket
- → door leaf inlet composed of layers of rockwool and internal steel sheet 1.5 mm and reinforced with steel sub-construction against break-down, weight of door 55 kg/m$^2$
- → finish: PPC, palette RAL (258 colours, except signal ones)
- → 3 pcs of hinges, regulated 3D, stainless steel (special version RC4)
- → multipoint lock, PZ 92 mm, backset 65 mm
- → reinforced stainless steel lever handle-handle set U-form on long shield; tested against burglary
- → PZ cylinder class 6C according to EN 1303, 6 keys
- → NO safety pins per leaf (possible on request)
- → flush bolt in astragal of passive leaf (double leaf door)
- → temporary-affixed steel bar threshold – for transportation only
- → 2 pcs of automatic dropping gasket

### ALTERNATIVE EQUIPMENT

- → door frame: block, embracing or other type

### ADDITIONAL EQUIPMENT

- → multipoint locks: panic locks, solenoid and motor
- → ironmongery: knobs, panic bars,
- → electric strike plates, magnet locks, magnet contacts
- → smoke resistant gasket ($S_{a4}$, $S_{200}$)
- → rain drip cap on door frame and/or on lower part of door leaf
- → door closers
- → alternative equipment and other door features on request (e.g FB4 (S))

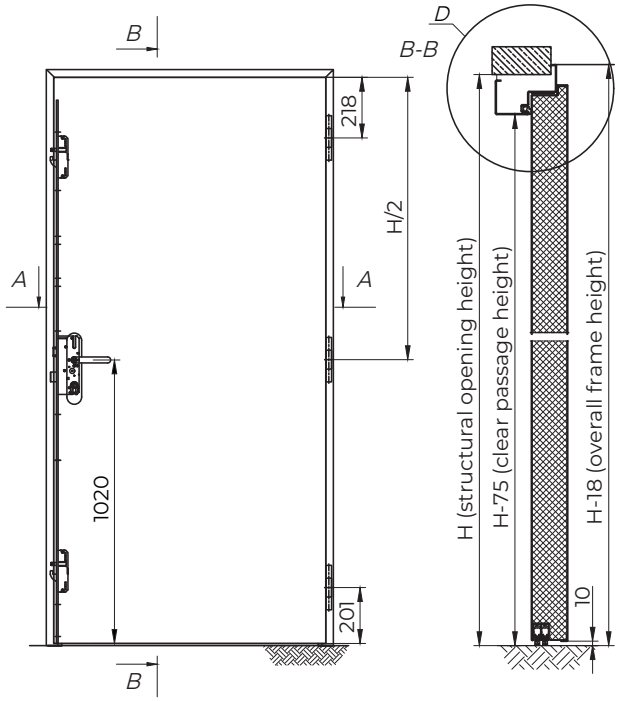
### TECHNICAL PARAMETERS

- → **fire resistance $EI_2$ 90/$EI_1$ 30 – one leaf**
- → **fire resistance $EI_2$ 60/$EI_1$ 30 – double leaf**
- → class RC4 acc. to EN 1627
- → basic features
  - mechanical resistance: class 3 according to standard EN 1192
  - mechanical durability: class 5 according to standard EN 16034 (200 000 cycles)
  - corrosion class: C3 (optional C5) according to standard EN ISO 12944
  - acoustic insulation $R_w$=44 (-1;-3) – one leaf door
  - bullet proof FB4–S (except threshold area)
  - ability to release: confirmed
- → other functional features: according to relevant Declaration of Performance

DFM DOORS

# CORNER FRAME

→ front view and cross section

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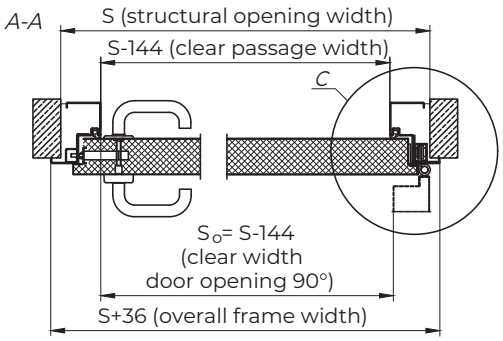
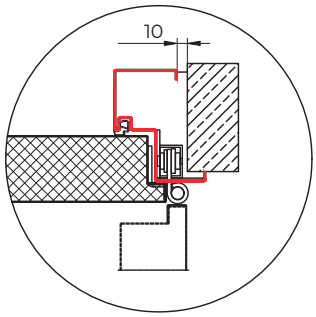



→ detail C

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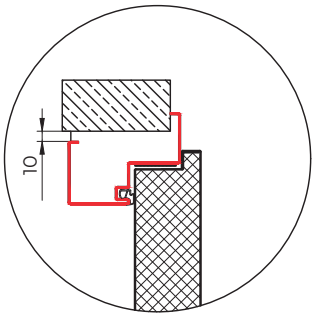
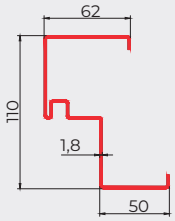



→ **calculation of wall opening versus clear opening for the corner door frames:**




→ corner steel frame

**NOTE! door frame and installation gap to be duly filled, in accordance with certificate**

→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| **corner** frame | **without** thermal break | 1,3 |

- automatic dropping gasket obligatory

→ **acoustic insulation coefficient**

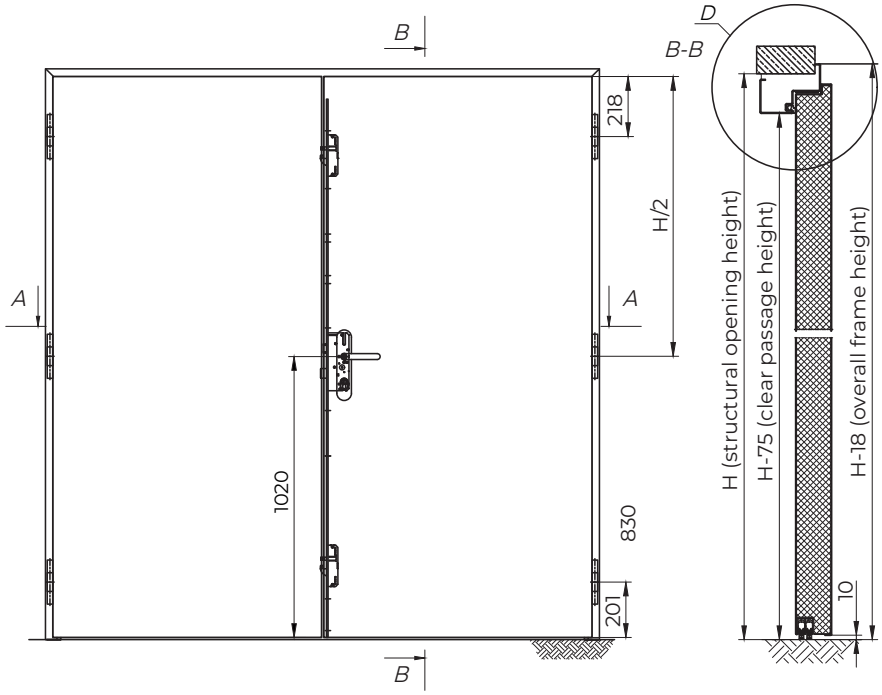
| acoustic insulation Rw (C; Ctr) | |
|---|---|
| door without glass vision panel | 44 (-1; -3) |

- automatic dropping gasket obligatory for acoustic doors

DFM DOORS

# CORNER FRAME

→ front view and cross section

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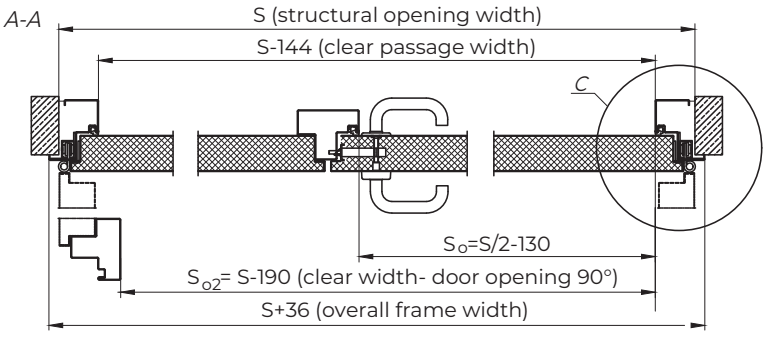


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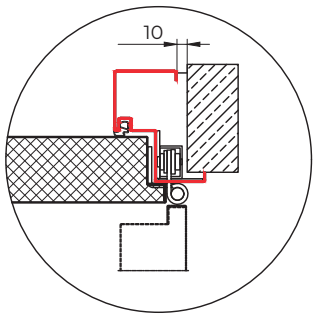


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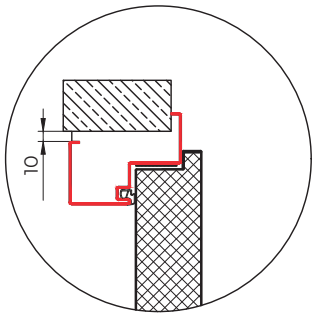


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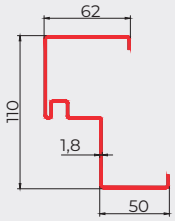



→ corner steel frame

**NOTE! door frame and installation gap to be duly filled, in accordance with certificate**

→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| corner frame | **without** thermal break | n.p.d. |

- automatic dropping gasket obligatory

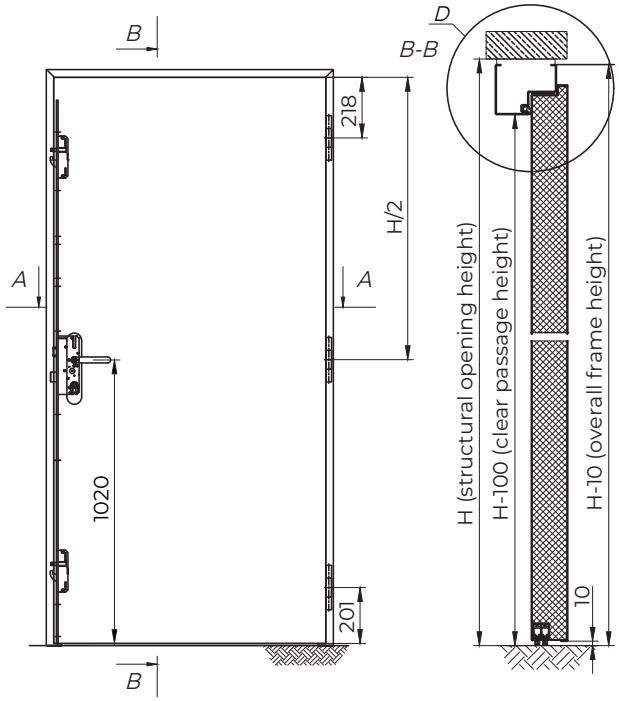
→ **acoustic insulation coefficient**

| acoustic insulation Rw (C; Ctr) | |
|---|---|
| door without glass vision panel | 42 (-1; -3) |
| door without glass vision panel and with aluminium threshold | 45 (-1; -5) |

- automatic dropping gasket obligatory for acoustic doors

# BLOCK FRAME

→ front view and cross section

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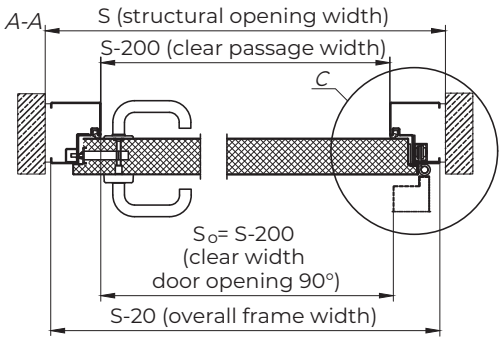


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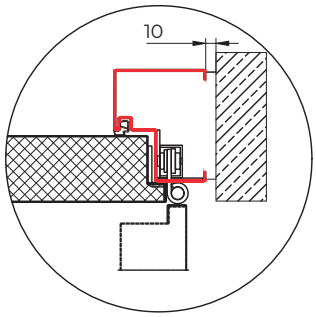


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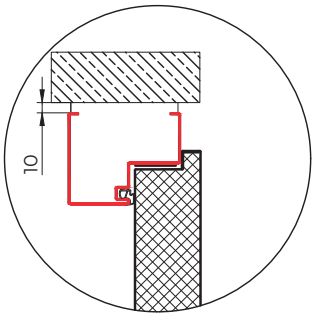
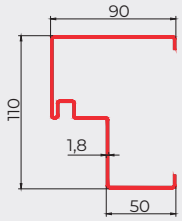



→ **calculation of wall opening versus clear opening is the same for the block frames:**




→ block steel frame

**NOTE! door frame and installation gap to be duly filled, in accordance with certificate**

→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| **block** frame | **without** thermal break | n.p.d. |

- automatic dropping gasket and frame filled with plaster board or mortar obligatory

→ **acoustic insulation coefficient**

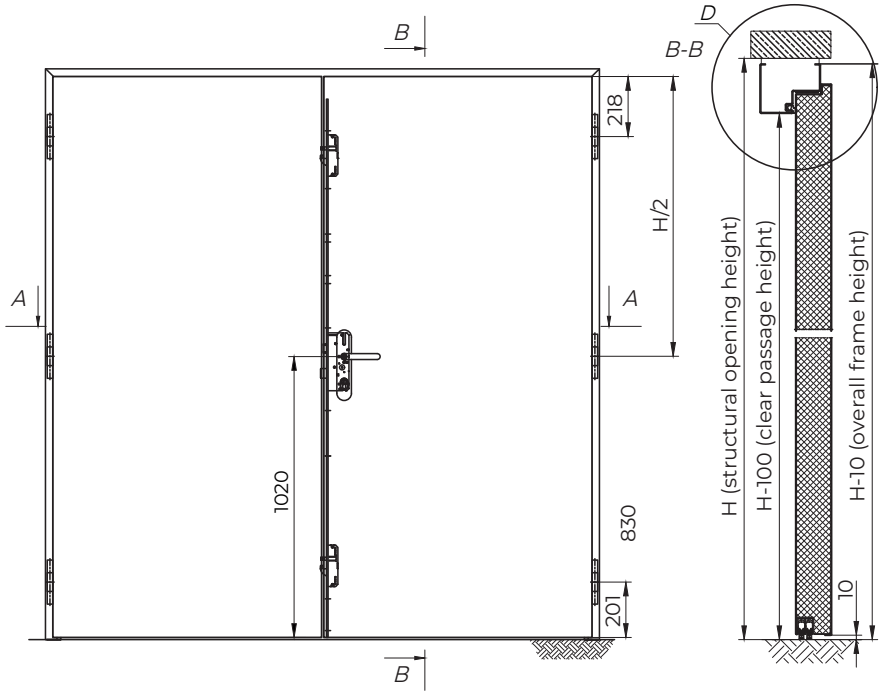
| | |
|---|---|
| acoustic insulation Rw (C; Ctr) | |
| door without glass vision panel | 44 (-1; -3) |

- automatic dropping gasket obligatory for acoustic doors

DFM DOORS

# BLOCK FRAME

→ front view and cross section

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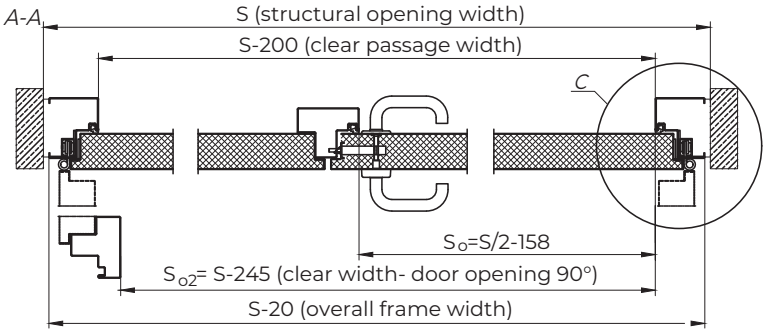


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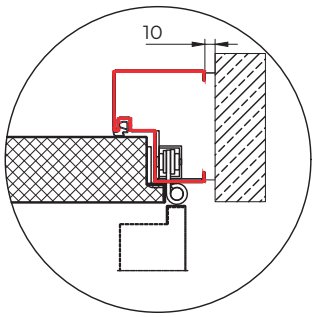


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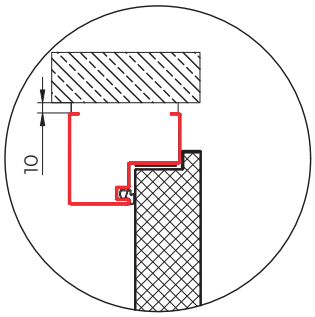


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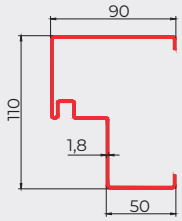


→ block steel frame

**NOTE! door frame and installation gap to be duly filled, in accordance with certificate**

→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| **block** frame | **without** thermal break | n.p.d. |

- automatic dropping gasket and frame filled with plaster board or mortar obligatory

→ **acoustic insulation coefficient**

| acoustic insulation Rw (C; Ctr) | |
|---|---|
| door without glass vision panel | 42 (-1; -3) |
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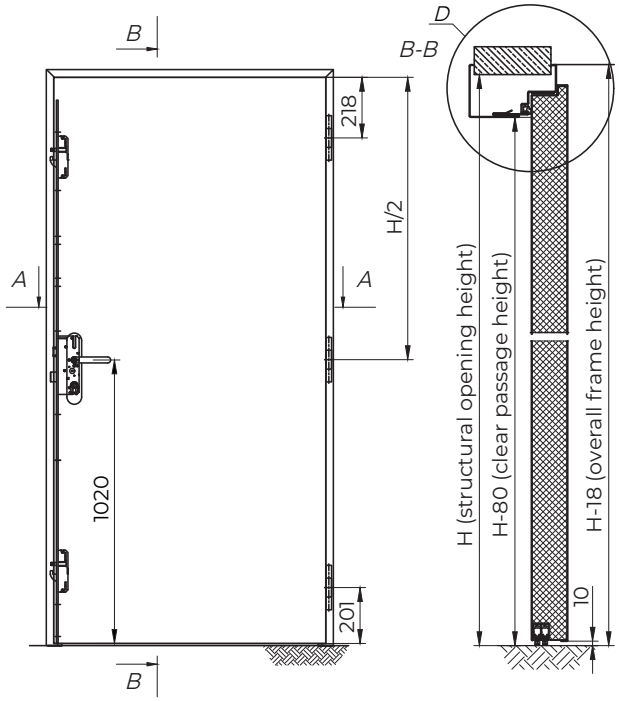
- automatic dropping gasket obligatory for acoustic doors

DFM DOORS

# EMBRACING FRAME

→ front view and cross section

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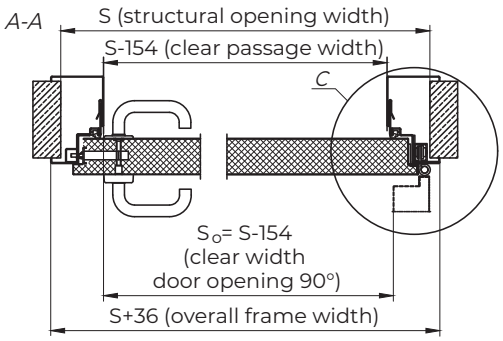


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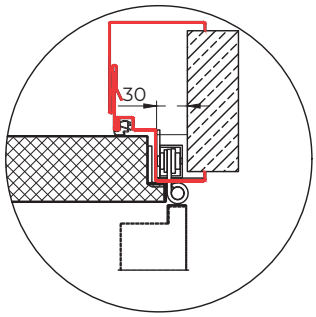


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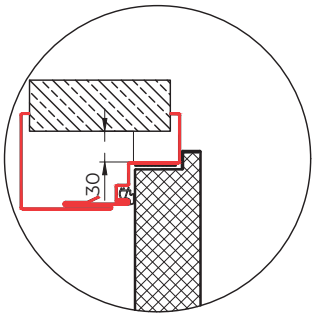


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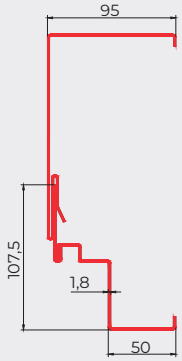



→ embracing steel frame

**NOTE! door frame and installation gap to be duly filled, in accordance with certificate**

→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| **wall embracing** frame | **without** thermal break | n.p.d. |

- automatic dropping gasket obligatory

→ **acoustic insulation coefficient**

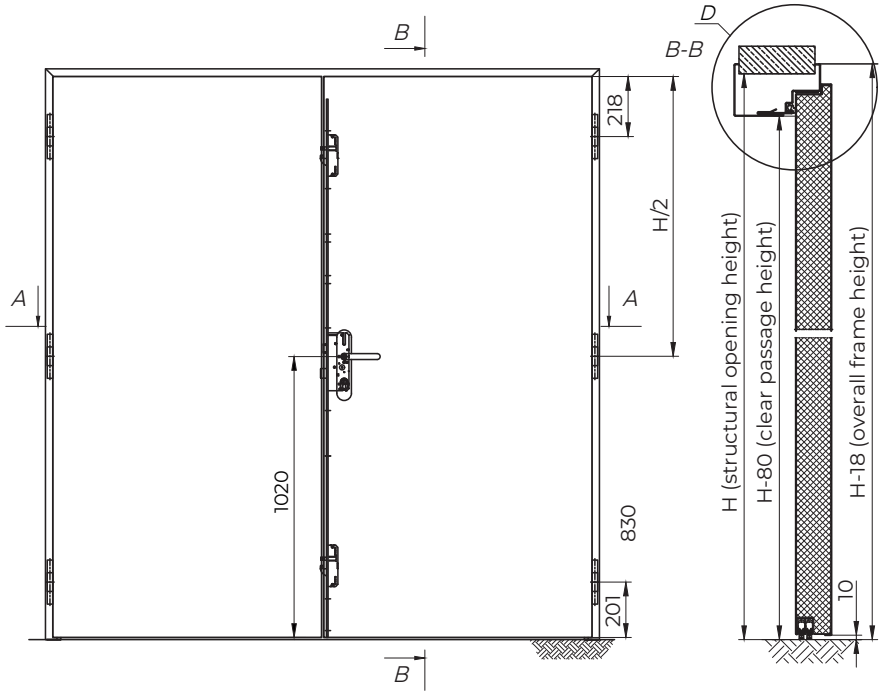
| | |
|---|---|
| acoustic insulation Rw (C; Ctr) | |
| door without glass vision panel | 44 (-1; -3) |

- automatic dropping gasket obligatory for acoustic doors

DFM DOORS

# EMBRACING FRAME

→ front view and cross section

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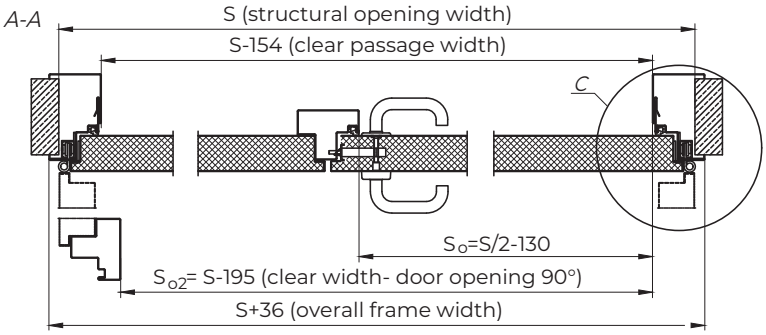


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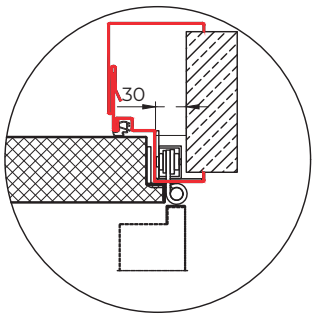


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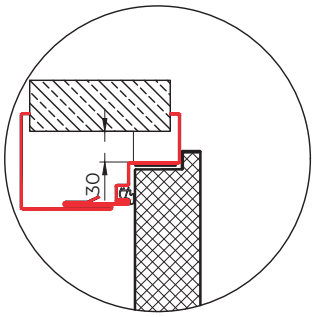


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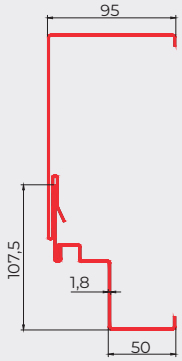


→ embracing steel frame

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→ **heat transfer coefficient Ud [W/m²K]**

| | | |
|---|---|---|
| **wall embracing** frame | **without** thermal break | n.p.d. |

- automatic dropping gasket obligatory

→ **acoustic insulation coefficient**

| acoustic insulation Rw (C; Ctr) | |
|---|---|
| door without glass vision panel | 42 (-1; -3) |
| door without glass vision panel and with aluminium threshold | 45 (-1; -5) |

- automatic dropping gasket obligatory for acoustic doors