

All Heinen doors are constructed on the basis of the METAL+ concept, lending them superior basic performance standards.

Basic performance features of the Metal+ door:



Burglary resistance
RC2 subject to conditions



Frequency of use
Up to 1,000,000 open/close cycles (max. level)
+ durability of automatic closure: 200.000 cycles (C5)



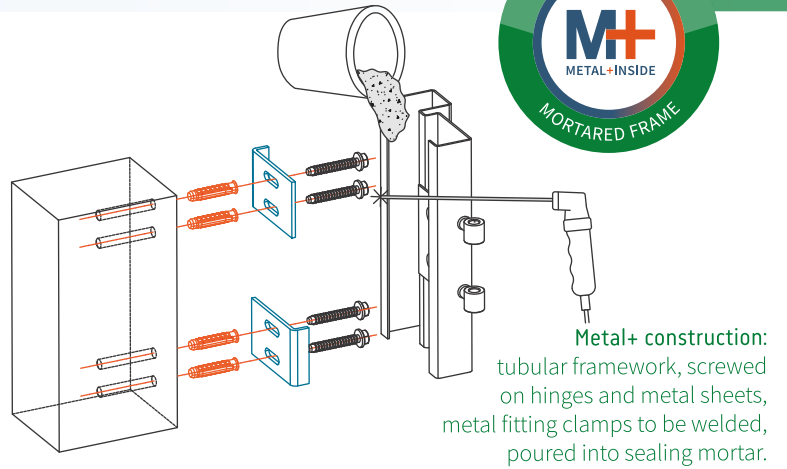
Mechanical resistance
- M4 (maximum normative level)
- Up to M+7 (maximum level beyond the standards)



Service life of the door
15-year warranty on the door set

Possible combinations:

● Fire resistance ● Burglary resistance ● Acoustic performance ● Bullet-proof ● Blast-proof ● Electromagnetic ● Anti-panic
● Smoke tightness ● Thermal insulation ● Airtightness ● Watertightness ● Wind resistance



With automatic Kältefeind threshold



Acoustic performance
Basic soundproofing:
- single door RW = 36dB
- double door RW = 30dB

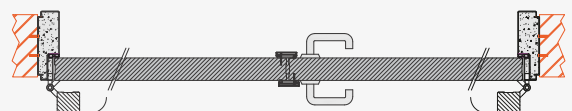
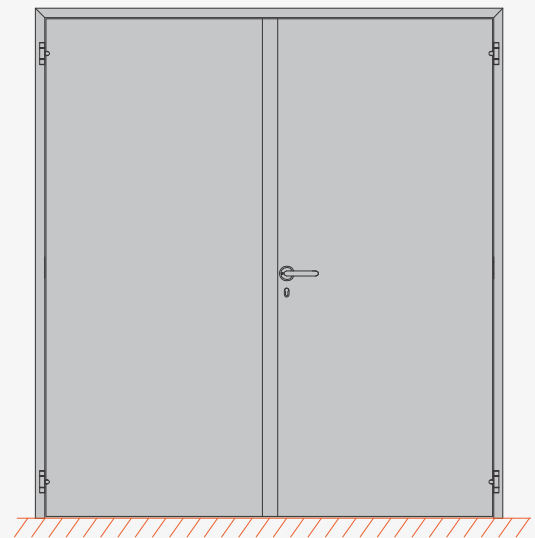
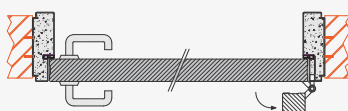
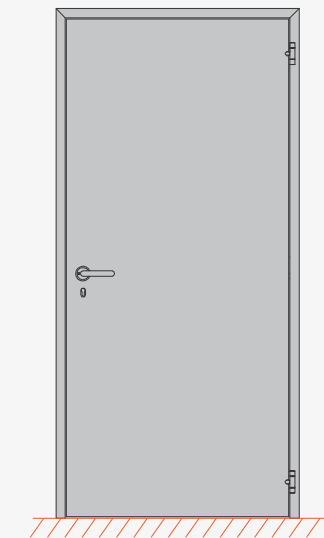


Airtightness
- single door minimum L2
- double door minimum L2 (with door closer)



Thermal insulation
Value between 1.7 and 1.9 W/m²K (depending on dimensions)

CROSS-SECTION METAL+ DOOR (DRHE 0000)



DOOR DIMENSIONS *(always customised)*

Single door

Maximum dimensions	Width	Height
Leaf	2450	5900
Opening	2560	5978

From a leaf width of 1450 (opening of 1560) the maximum height of the leaf is limited to 4900 (opening of 4978)

Minimum dimensions	Width	Height
Leaf	400	600
Opening	510	678

Calculation of clear passage (excluding combinations):

FP 180° = Width of opening - 140

FP 90° = Width of opening - 210

FP = Height of opening - 90

Construction support with a minimum thickness of 100 mm.

Double door

Maximum dimensions	Width	Height
Leaf	2450	5900
Opening	5020	5978

From a leaf width of 1450 (opening of 1560) the maximum height of the leaf is limited to 4900 (opening of 4978)

Minimum dimensions	Width	Height
Leaf	400	900
Opening	920	978

Calculation of clear passage (excluding combinations):

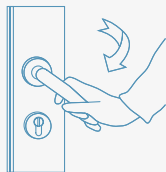
FP 180° = Width of opening - 140

FP 90° = Width of opening - 280

FP = Height of opening - 90

SECURITY LOCKS

Mechanical systems



Standard (one point)*

Anti-panic (1 and 3 points)*

Top and/or bottom lock

Security (1 and 3 points)*

*Compatible with Fail safe or Fail secure electric strike.

ABLOY EL160, **EL360**

Self-Security (1 and 3 points)

Dorma PHA 2000 + PHB 3000

Manual locking

Automatic locking



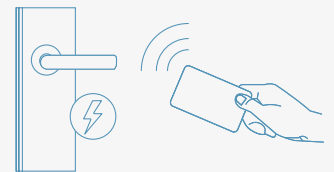
ABLOY®



Fail secure: operation by power supply.

Fail safe: operation by power cut.

Electrical systems with automatic locking



ABLOY EL560, **EL561**

Controlled entry: Fail safe ou Fail secure.
Free anti-panic exit or controlled exit (Fail idem entry side).

Overlock (in combination with Self-Security 1 or 3 points).

Controlled entry: Fail secure.
Free anti-panic exit or controlled exit (Fail secure).

ABLOY EL518, **EL520**

Controlled entry: Fail secure.
Free anti-panic exit or controlled exit (Fail secure).

ABLOY EL532

Controlled entry: Fail secure.
Controlled exit: Fail safe.

BB-LOCKS serie A1 SA/SX/SE

Lock in the frame: Controlled entry: Fail safe (SA) or Fail secure (SX and SE). Controlled exit: Fail safe (SA) or Fail secure (SX and SE).
With an Adjustable Striker Plate.

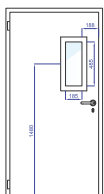
Solenoid locks

Motorised locks

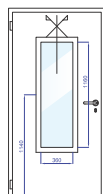
WINDOW CONFIGURATIONS

Solid or glazed + lateral and upper fanlights. Standard sizes or customised windows.

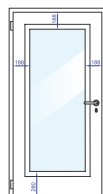
TYPE 1



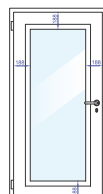
TYPE 2



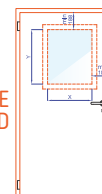
TYPE 3



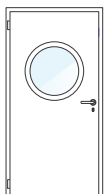
TYPE 4



TYPE CUSTOMISED



ROUND PEEP-HOLE



DETAILS OF MAIN COMBINATIONS



Fire resistance

Tests carried out by the fire resistance testing laboratory at the University of Liège.
EI1-30 - EI1-60 - EI1-120
EI2-30 - EI2-60 - EI2-120 - EI2-180



Bullet-proof

Tests carried out by the Banc National d'Épreuve, Saint Étienne.
FB4 - FB5 - FB6 - AK47



Burglary resistance

Tests carried out by the CNPP.
RC2, RC3, RC4 and RC5.



Smoke tightness

Sa, Sm (S200).
Doorbottom seal.



Acoustic performance

Tests carried out by the testing laboratory at the University of Liège.
Soundproofing (Rw) up to 54 dB.
Standard lock, double Shall-Ex, brushes.



Anti-panic

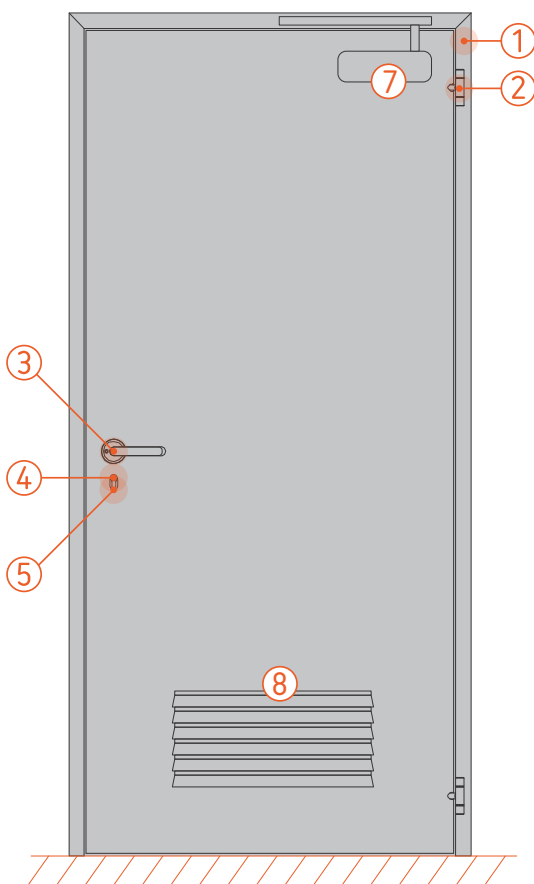
Pushbar or handle.



Thermal insulation

Up to 1.5 W/m²K possible, with thermal break

FITTINGS



BASIC FITTINGS

- 1 | **Door frame and leaf finish**
Magnelis® Hot-dip galvanised ZM 250 steel (250g/m², 20µm thick).
- 2 | **Hinges**
Minimum two screwed steel hinges, adjustable and replaceable.
- 3 | **Handles**
A set of two U-shaped aluminium handles
- 4 | **Europrofil cylinder**
Standard.
- 5 | **Backplate**
PVC backplate.
- 6 | **Lock**
Standard 1 point.

OPTIONAL FITTINGS

- 1 | **Door frame and leaf finish**
Stainless steel 304, 316 or RAL paint.
- 2 | **Hinges**
One or more hinges can be added; these are always adjustable and replaceable.
Stainless steel hinges.
- 3 | **Handles**
Handles, doorknobs, pull handles etc. in aluminium or stainless steel.
- 7 | **Door closers**
With scissor arm or sliding arm, fitting on the hinge or non-hinge side, closure selectors, open position maintained etc.
- 8 | **Ventilation**
Ventilation grills.
- 9 | **Security locks**
See locks.
- 10 | **Security stud system**
Security stud advised for external doors.
- 11 | **Remote surveillance**
Indication of leaf position, locking latch position, indication of leaf status.
- 12 | **Various options**
Soundproof doorsills, door stops, storm chains, impact plates and many other fittings.

Heinen doors can combine performance features on a bespoke basis. Depending on your needs, one or more performance features are added to the basic, robust Metal+ door. Some performances are only available with the welded and mortar filled installation method.



Fire resistance



Burglary
resistance



Acoustic
performance



Bullet-proof



Blast-proof



Electromagnetic



Anti-panic



Smoke
tightness



Thermal
insulation



Airtightness



Watertightness



Wind
resistance



www.heinen-doors.com

For BIM files, please consult us. Our products are certified **CE**

Heinen product sheet | METAL+ | SINGLE & DOUBLE HINGED DOOR | 2024-02-27_FT HE 0000 - V10EN

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