



EI2-60 | SINGLE & DOUBLE HINGED DOOR

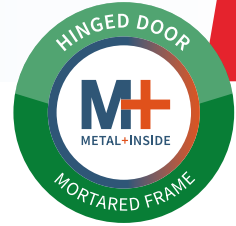
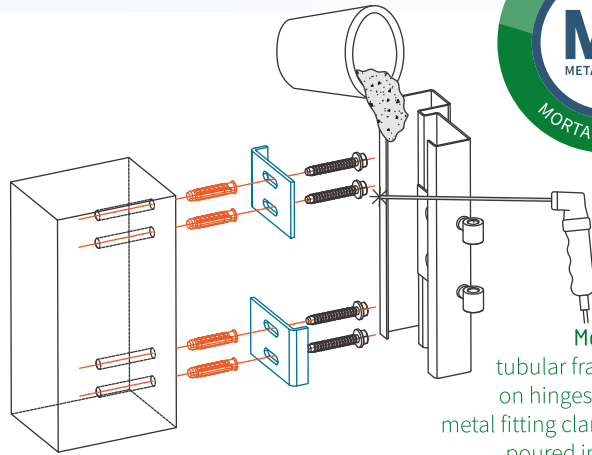
FTHE 0004 - Fire resistance EI2-60 (in accordance with EN 1634-1)

Fire resistance

Tests carried out by the University of Liège.
Classification Report C0085A



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



Metal+ construction:
tubular framework, screwed on hinges and metal sheets, metal fitting clamps to be welded, poured into sealing mortar.

Basic performance features of the door EI2-60



Fire resistance (EN 1634-1)
EI2-60



Burglary resistance (EN 1627-1630)
RC2 subject to conditions



Radiation
EW 180



Frequency of use
Up to 1,000,000 open/close cycles (max. level)
+ durability of automatic closure: 200,000 open/close 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

With automatic Kältefeind threshold



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



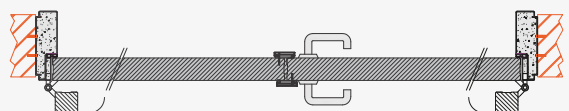
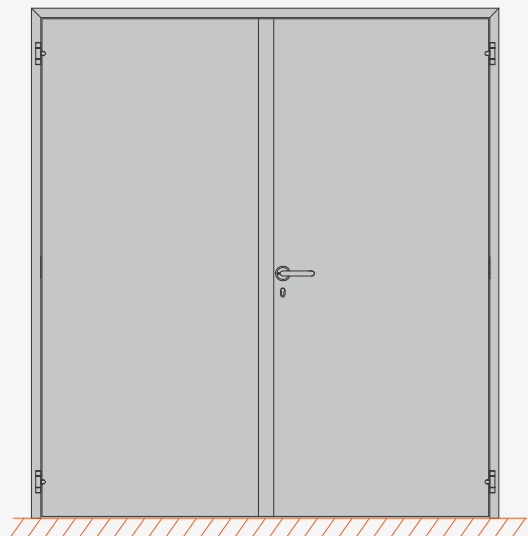
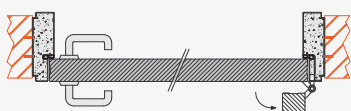
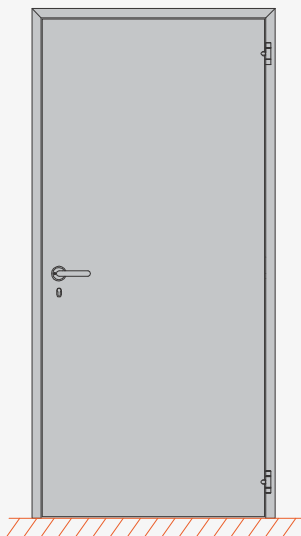
Airtightness
- single door minimum L2
- double door minimum L2 (with door closer)



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

Possible combinations: ● Burglary resistance ● Bullet-proof ● Acoustic performance ● Anti-panic ● Smoke tightness

CROSS-SECTION EI2-60 DOOR (DRHE 0004)



DOOR DIMENSIONS *(always customised)*

Single door

	Min. dimensions		Max. dimensions		Max. surf.
	W	H	W	H	
Leaf	400	600	2175	4350	9.46m ²
Opening	510	678	2285	4428	

Calculation of clear passage (excluding combinations):

FP 180° = Width of opening - 140

FP 90° = Width of opening - 210

FP = Height of opening - 90

Please note that the surface area stated for double doors is the sum of the surface areas of the two door leaves. Construction support with a minimum thickness of 100 mm and a minimum density of 480 Kg/m³. On request, larger / smaller doorsets are also available without a certificate, this is also valid for the wall thicknesses.

All external fire doors are CE marked. The dimensions of the leaves indicated in the "CE Certificate" or the Efectis classification certificates may vary from the University of Liège classification reports. For more details, see DOHE 012: Minimum and maximum dimensions of fire doors to EN 1634-1.

Double door

	Min. dimensions		Max. dimensions		Max. surf.
	W	H	W	H	
Leaf	400	600	2175	4350	18.92m ²
Opening	920	678	4470	4428	

Calculation of clear passage (excluding combinations):

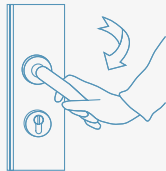
FP 180° = Width of opening - 140

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)

Manual
locking

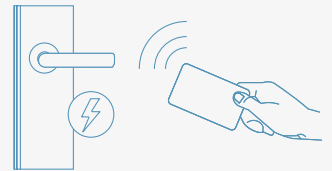
ABLOY EL160, **EL360**

Self-Security (1 and 3 points)

Dorma PHA 2000 + PHB 3000

Automatic
locking

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).

Solenoid
locks

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.

Motorised
locks

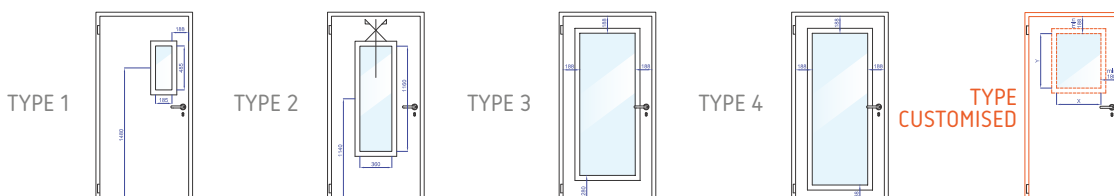


Fail secure : fonctionnement par alimentation de courant.

Fail safe : fonctionnement par rupture de courant.

WINDOW CONFIGURATIONS

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



DETAILS OF MAIN COMBINATIONS



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.



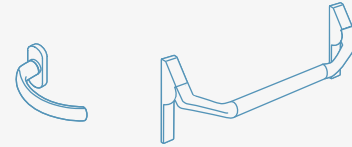
Anti-panic

Pushbar or handle.

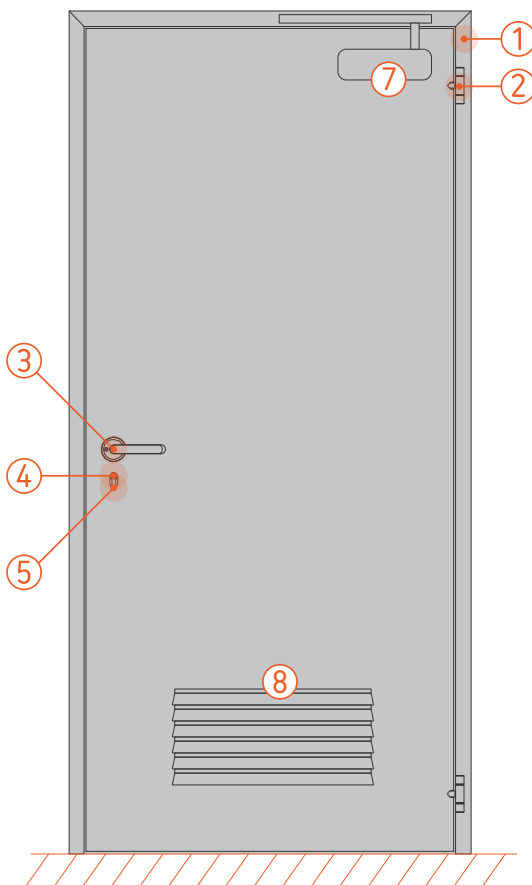


Bullet-proof

Please feel free to contact us.



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**
Compliant ventilation grills for internal and external doors.
3 standard dimensions: 580 x 380 mm; 680 x 480 mm; 880 x 680 mm.
- 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 | E12-60 | SINGLE & DOUBLE HINGED DOOR | 2024-08-11_FT HE 0004 - V15EN

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