

Tests carried out by the Université de Liège.



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

Basic performance of the Rw door:



Acoustic performance (ISO 717-1)

Single door: $R_w = 36$ dB
Double door: $R_w = 39$ dB



Burglary Resistance (EN 1627-1630)

RC2 under conditions



Airtightness

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



Thermal insulation

Value between 1.7 and 1.9 W/m^2K (depending on dimensions)



Frequency of use

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



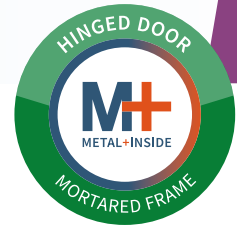
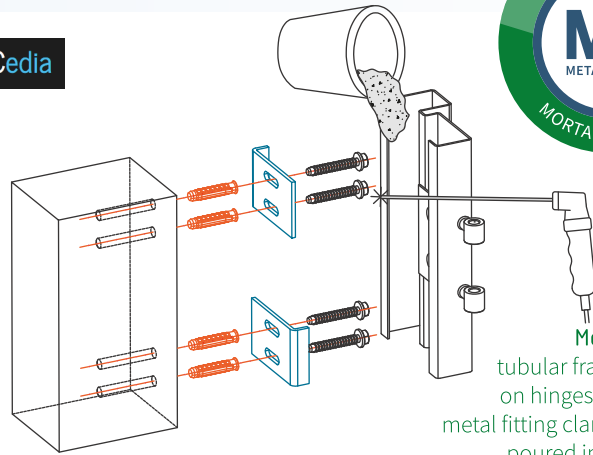
Mechanical resistance

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



Service life of the door

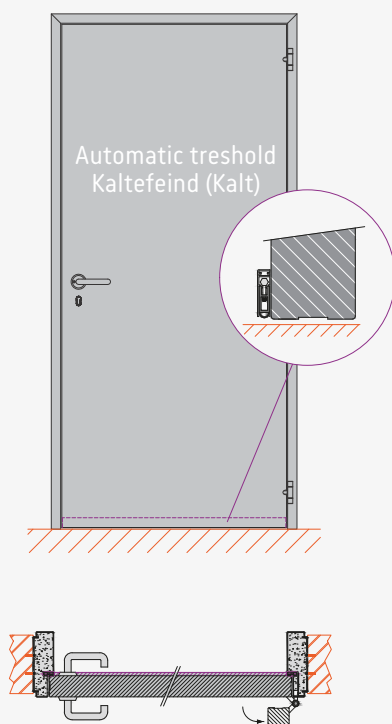
15-year warranty on the door set



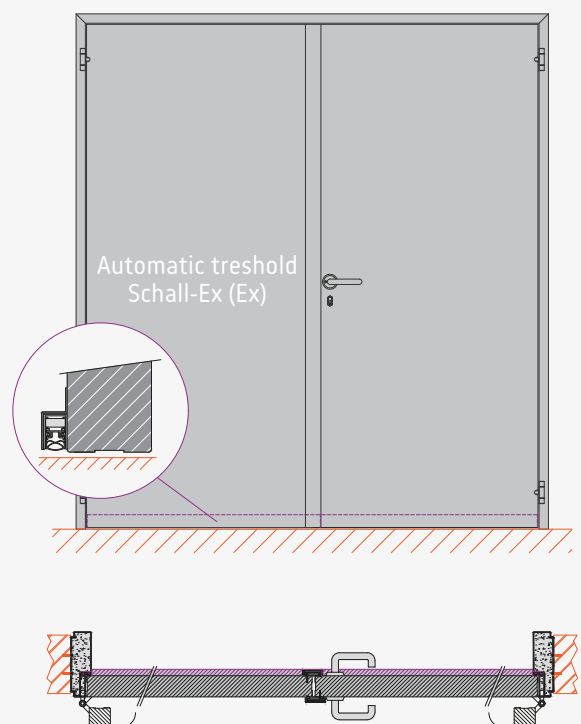
Metal+ construction:
tubular framework, screwed on hinges and metal sheets, metal fitting clamps to be welded, poured into sealing mortar.

Possible combinations: ● Fire resistance ● Burglary resistance ● Bullet-proof ● Anti-panic ● Smoke tightness
● Thermal insulation

CROSS-SECTION RW36 SINGLE DOOR



CROSS-SECTION RW 39 DOUBLE DOOR



DOOR DIMENSIONS *(always customised)*

Single door

Maximum opening area: 5 m²

Minimum opening area: no restriction

Calculation of clear passage (excluding combinations):

FP 180° = Width of opening - 140

FP 90° = Width of opening - 215

FP = Height of opening - 90

Larger door units are also available without certificate.

Double door

Maximum opening area: 10 m²

Minimum opening area: no restriction

Calculation of clear passage (excluding combinations):

FP 180° = Width of opening - 140

FP 90° = Width of opening - 280

FP = Height of opening - 90

ACOUSTIC PERFORMANCE FEATURE OF THE DOORS

Single door

	Threshold		Lock	Glazing possible
	CO	CP		
Rw 36	Kalt	/	Standard	Yes
Rw 41	Ex	/	ABLOY	Yes
	Ex	/	Standard	
Rw 45	ExR	/	Standard	/
Rw 47	Sha	/	Standard	/
	Ex	Ex	Standard	/
	Ex	Ex	ABLOY	/
Rw 49	Sha	Ex	Standard	/
	Sha	Ex	ABLOY	/
Rw 52	Sha	Ex	Standard	/
Rw 54*	ExR	Ex	Standard	/
Rw 55**	Sha	Ex	Standard	/

Double door

	Threshold		Lock	Glazing possible
	CO	CP		
Rw 39	Sha	/	Standard	Yes
	Sha	/	ABLOY	
Rw 40	Ex	/	Standard	Yes
	Ex	/	ABLOY	
	/	Ex	Pha2000	
Rw 45	Sha	/	Standard	/
	Sha	/	Pha2000	/
Rw 47	Ex	Ex	ABLOY	/
	Ex	Ex	Standard	/
Rw 49*	Sha	Ex	Standard	/
Rw 53**	ExR	Ex	Standard	/

See details of acoustic solutions at the bottom of page 3

*Rw 54 : EI1 120 / EI2 180 not available

**Rw 55 : fireproof not available

*Rw 49 : only for < 5m² opening

**Rw 53 : EI1 120 / EI2 180 not available

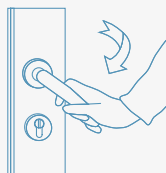
CO = non-hinge side - CP = hinge side - Standard = Mechanical Locks: Standard, Anti-panic or Self Security

ABLOY = Electromechanical locks: ABLOY EL560, EL561, EL518, EL520, EL532 - Dorma = Dorma PHA 2000, PHB 3000

Threshold : Sha may be replaced by Sh or 4C

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

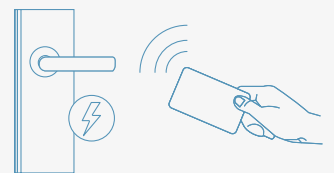
ABLOY EL160  , **EL360** 

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 or 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).

Motorised
locks

ABLOY EL532

Controlled entry: Fail secure.

Controlled exit: Fail safe.

 **ABLOY**

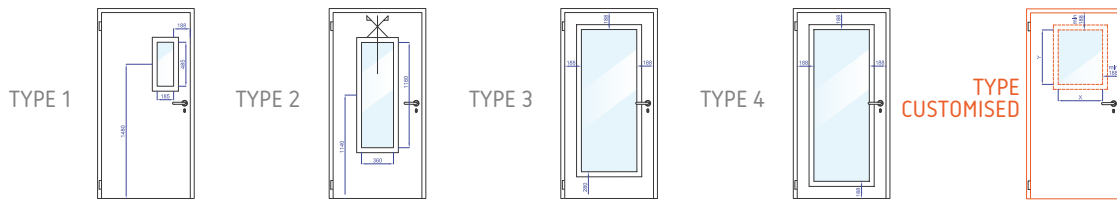
 **DORMA**

Fail secure: operation by power supply.

Fail safe: operation by power cut.

WINDOW CONFIGURATIONS

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



DETAILS OF MAIN COMBINATIONS



Burglary Resistance (EN 1627-1630)

Tests carried out by the CNPP.
RC2, RC3.



Bullet-proof

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



Thermal insulation

Up to 1.5 W/m²K possible, with thermal break



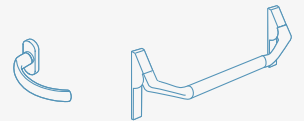
Fire resistance

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



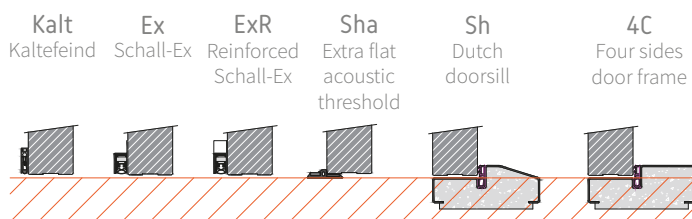
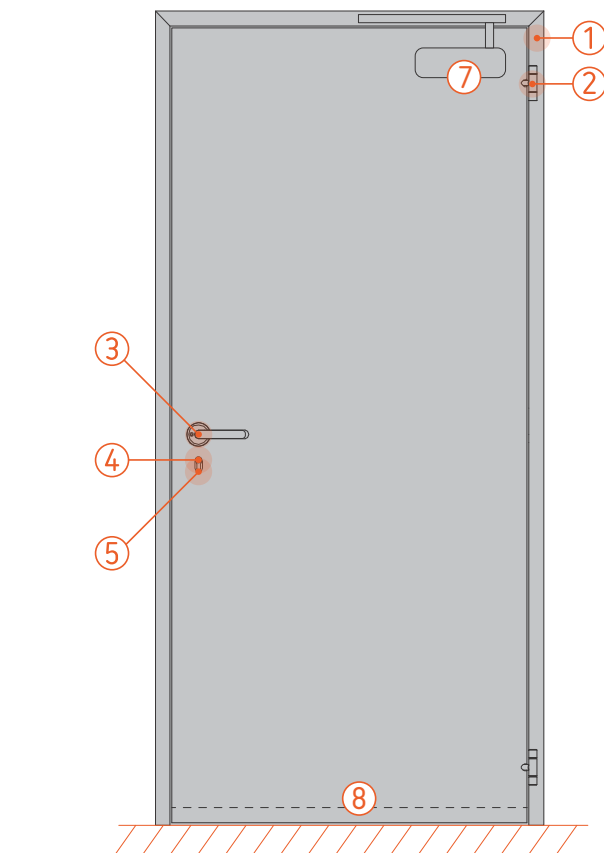
Anti-panic

Pushbar or handle.



Smoke Tightness

Sa, Sm (5200). Threshold at the bottom of the door leaf.



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 / Striker**
Standard 1 point. Adjustable strike.
- 8 | **Acoustic thresholds**
Single doors: Kaltefeind. Double doors: Schall-Ex.

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.
- 3 | **Handles**
Handles, doorknobs, pull handles etc. in aluminium or stainless steel.
- 7 | **Door closer**
With scissor arm or sliding arm, fitting on the hinge or non-hinge side, invisibly integrated door closer, open position maintained etc.
- 8 | **Acoustic thresholds**
Kalt (Kaltefeind), EX (Schall-Ex), ExR (reinforced Schall-Ex), Sha (surface-mounted Dutch doorsill), Sh (Dutch doorsill), 4C (4-sided frame).
- 9 | **Security locks**
Security locks.
- 10 | **Security stud system**
Stud advised for external doors.
- 11 | **Remote surveillance**
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 | Rw | SINGLE & DOUBLE HINGED DOOR | 2024-02-27_FTHe 0050 - V11EN

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