

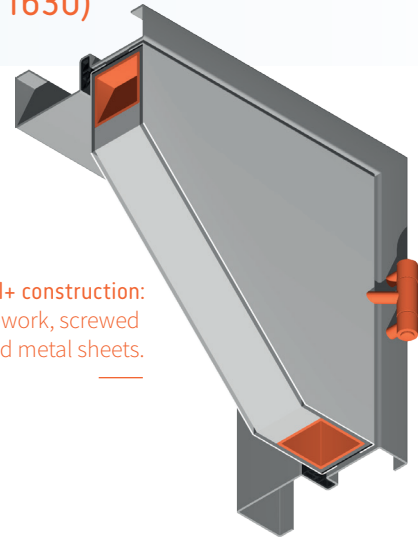


RC4 | SINGLE & DOUBLE SWING DOOR

SHEET 002 - Burglary resistance standard RC4
(in accordance with EN 1627 to 1630)

Tests carried out by the CNPP

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.

Basic performance features of the RC4 door:



Anti-effraction (EN 1627-1630)
RC4



Acoustic performance
Basic soundproofing: $R_w = 30$ dB



Airtightness
Level L1



Thermal insulation
T4: Av. U 1,9 1.9 W/m²K
(with automatic door bottom seal)



Frequency of use
200,000 open/close cycles (max. level)



Mechanical resistance
M4 (max. level)

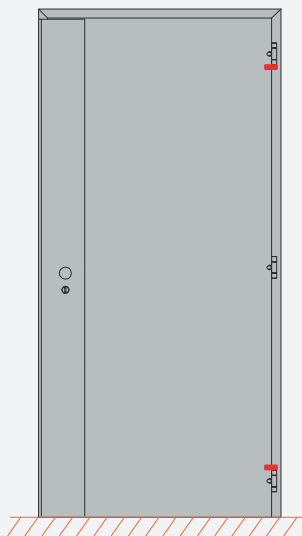


Service life of the door
15-year warranty on the door set

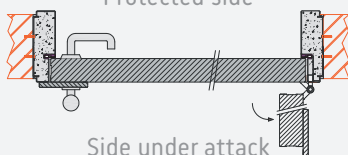
Possible combinations: ● Fire resistance ● Acoustic performance ● Bullet-proof protection ● Anti-panic

CROSS-SECTION DOOR RC4 BURGLARY RESISTANCE HINGE SIDE (A13a)

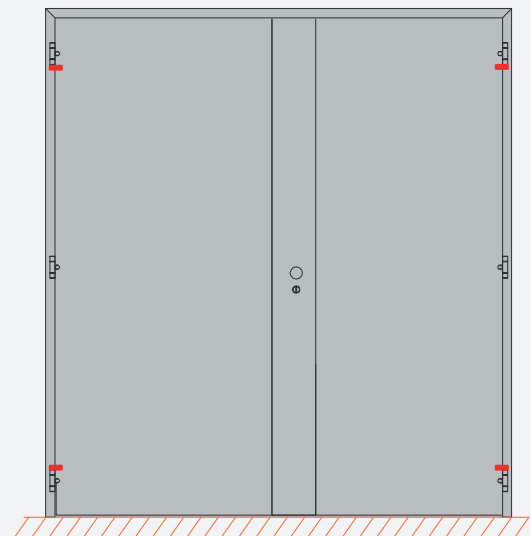
(also available with burglary resistance non-hinge side: A13b).



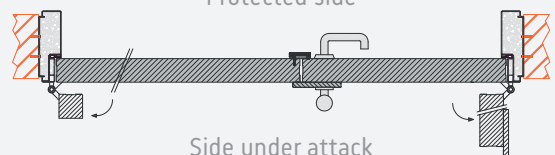
Protected side



Side under attack



Protected side



Side under attack

DOOR DIMENSIONS *(always customised)*

Single door

Maximum dimensions	Width	Height
Leaf	1450	3035
Opening	1560	3113

Minimum dimensions	Width	Height
Leaf	730	600
Opening	840	678

Calculation of free passage (excluding combinations) burglary resistance hinge side and non-hinge side:

FP 180° = Width of opening - 140

FP 90° = Width of opening - 210

FP = Height of opening - 90

Larger door sets are also available without a certificate.

Double door

Maximum dimensions	Width	Height
Leaf	1450	3035
Opening	3020	3113

Minimum dimensions	Width	Height
Leaf	400	600
Opening	920	678

Calculation of free passage (excluding combinations) burglary resistance hinge side:

FP 180° = Width of opening - 140

FP 90° = Width of opening - 280

FP = Height of opening - 90

Calculation of free passage (excluding combinations) burglary resistance non-hinge side:

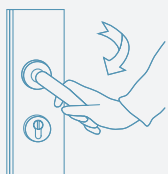
FP 180° = Width of opening - 140

FP 90° = Width of opening - 300

FP = Height of opening - 90

SECURITY LOCKS

Mechanical systems



Security (1 and 3 points)

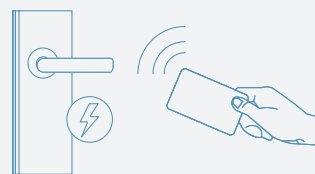
Anti-panic  (3 points)


Self-Security (1 and 3 points)


Manual locking

Automatic locking

Systems with automatic locking



Overlock  (in combination with Self-Security 1 or 3 points).
Controlled entry: Fail secure.
Free anti-panic exit or controlled exit (Fail secure).

EL518, EL520 
Controlled entry: Fail secure.
Free anti-panic exit or controlled exit (Fail secure).

EL532
Controlled entry: Fail secure.
Controlled exit: Fail safe.

Solenoid locks

Motorised locks

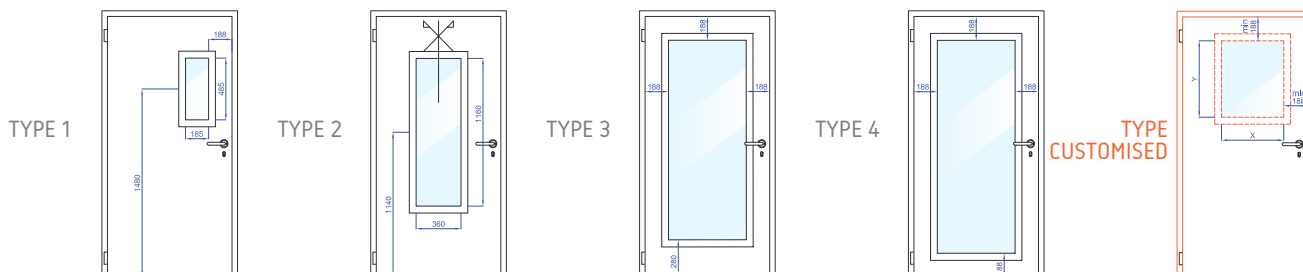
 **ABLOY**

Fail secure : fonctionnement par alimentation de courant.

Fail safe : fonctionnement par rupture de courant.

WINDOW CONFIGURATIONS

Solid or glazed. Combining anti-panic with glazing upon request. VStandard sizes or customised windows.



DETAILS OF MAIN COMBINATIONS



Fire resistance

Tests carried out by the fire resistance testing laboratory at the University of Liège.
E11-30 - E11-60
E12-30 - E12-60
Cannot be combined with the bullet-proof protection performance feature.



Bullet-proof

Tests carried out by the Banc National d'Épreuve, Saint Étienne.
FB4 - FB5 - FB6
AK47
Cannot be combined with the fire-resistance performance feature.



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.
Can be combined with fire resistance and bullet-proof protection performance features.

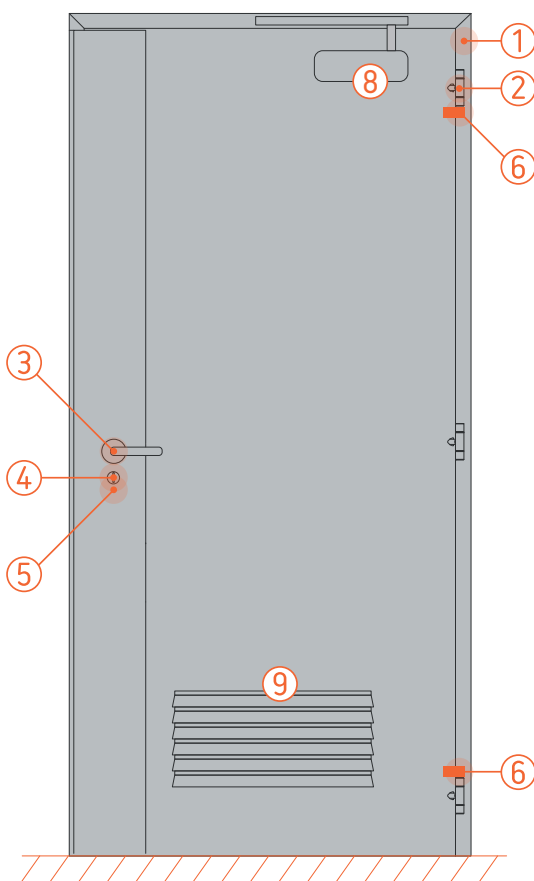


Anti-panic

Anti-panic bar or handle.
Cannot be combined with glazing.



FITTINGS



BASIC FITTINGS

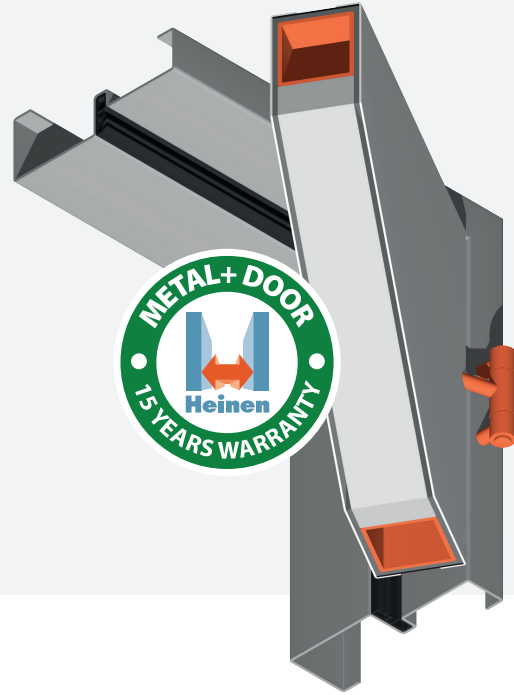
- 1 | **Door frame and leaf finish**
Hot-dip galvanised steel (275 g/m², 20µm thick) or RAL paint.
- 2 | **Hinges**
Minimum three steel hinges, adjustable and replaceable.
- 3 | **Handles**
A set of two U-shaped aluminium handles.
- 4 | **Europrofil cylinder**
EN 1627 compliant (class 6.2 in accordance with EN 1303).
- 5 | **Backplate**
Protection rotor.
- 6 | **Security stud system**
Burglary resistance hinge side: two security studs.
Burglary resistance non-hinge side: not necessary.
- 7 | **Lock**
Security 1 point.

OPTIONAL FITTINGS

- 1 | **Door frame and leaf finish**
Stainless steel 304, 316.
- 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.
- 8 | **Door closer**
With scissor arm or sliding arm, fitted on the hinge or non-hinge side, invisibly integrated, with or without closure selectors, open position maintained etc.
- 9 | **Ventilation**
RC4 compliant ventilation grilles without combination of performance features.
Maximum width = leaf - 2 x 105, maximum height = 235 mm.
- 10 | **Security locks**
See locks.
- 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.

BASIC PERFORMANCES OF THE METAL+ DOOR

- **Frequency of use:**
1,000,000 open/close cycles (maximum level)
- **Mechanical resistance:**
M+7 (maximum level)
- **Service life of the door:**
15-year warranty on the door set!
- **Burglary resistance:**
RC2 (subject to conditions)
- **Acoustic performance:**
Basic soundproofing (Rw) = 30 dB
- **Air tightness:**
Level L1
- **Thermal insulation:**
T4: Av. U ≈ 1.9 W/m²K (with automatic door bottom seal)



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.



Fire resistance



Burglary resistance



Acoustic performance



Bullet-proof



Blast-proof



Electromagnetic



Anti-panic



Smoke tightness



Thermal insulation



Airtightness



Watertightness



Wind resistance



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

Heinen technical data sheet | RC4 - single and double swing door | Sheet 002 - V01EN October 2018

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