

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



### "L"-VALUE OBTAINED DEPENDING ON CONFIGURATIONS

#### Single Door

|                                      | Report                | Overpressure | Depressure |
|--------------------------------------|-----------------------|--------------|------------|
| Without low finish                   | CAR 12125/1 - Page 12 | L1           | L1         |
| Kaltefeind (Kalt)                    | CAR 12125/1 - Page 9  | L2           | L3         |
| Schall-Ex (Ex)                       | CAR 12125/1 - Page 8  | L2           | L4         |
| Dutch surface-mounted doorsill (Sha) | CAR 12125/1 - Page 10 | L2           | L3         |
| 4-sided door frame (4C)              | CAR 12125/1 - Page 5  | L2           | L3         |

#### Double door with 2 door-closers

|                                      | Report               | Overpressure | Depressure |
|--------------------------------------|----------------------|--------------|------------|
| Dutch surface-mounted doorsill (Sha) | CAR 15184/1 - Page 6 | L2           | L4         |
| Kaltefeind (Kalt)                    | CAR 15184/1 - Page 9 | L2           | L3         |

#### Double door with 1 door-closer

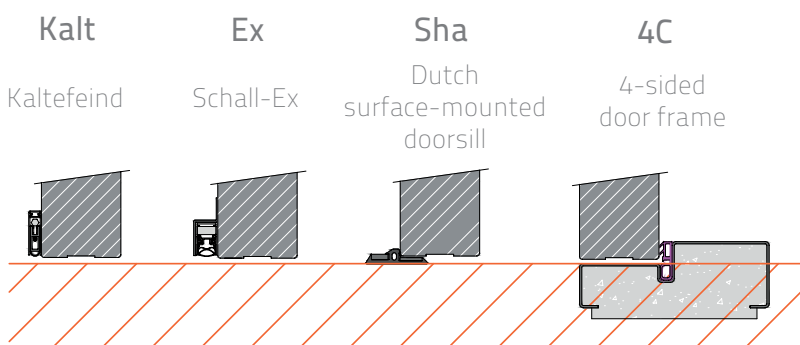
|                         | Report                | Overpressure | Depressure |
|-------------------------|-----------------------|--------------|------------|
| Kaltefeind (Kalt)       | CAR 15184/1 - Page 8  | L2           | L3         |
| Schall-Ex (Ex)          | CAR 15184/1 - Page 11 | L2           | L4         |
| 4-sided door frame (4C) | CAR 15184/1 - Page 13 | L1           | L3         |

#### Double door without door-closer

|                                      | Report                | Overpressure | Depressure |
|--------------------------------------|-----------------------|--------------|------------|
| Dutch surface-mounted doorsill (Sha) | CAR 15184/1 - Page 5  | L1           | L3         |
| Kaltefeind (Kalt)                    | CAR 15184/1 - Page 7  | L1           | L3         |
| Schall-Ex (Ex)                       | CAR 15184/1 - Page 10 | L1           | L3         |
| 4-sided door frame (4C)              | CAR 15184/1 - Page 12 | L1           | L3         |

Legend : *Depression* = Pressure hinge side | *Overpressure* = Pressure opposite site of the hinges /  
 1 DC = door-closer GEZE TS 4000 on the mobile leaf | 2 DC = door-closer GEZE TS 4000 (tandem version) on the mobile leaf

### TYPES OF SEALS



AIRTIGHTNESS REFERENCE (to 100 Pa)

| Classe | Total surface<br>(m³/h.m²) | Seals lenght<br>(m³/h.m) |
|--------|----------------------------|--------------------------|
| 0      | no test                    | no test                  |
| 1      | 50                         | 12,50                    |
| 2      | 27                         | 6,75                     |
| 3      | 9                          | 2,25                     |
| 4      | 3                          | 0,75                     |

Note: These tests are performed from 50 Pa to 600 Pa.  
Contact us for more information.

DIMENSIONS TESTED

| Single door | Width | Height | Surface |
|-------------|-------|--------|---------|
| Door frame  | 1190  | 2358   | 2,81 m² |
| Opening     | 1210  | 3040   | -       |
| Double door | Width | Height | Surface |
| Door frame  | 3080  | 3010   | 9,27 m² |
| Opening     | 3100  | 3040   | -       |

DIMENSIONAL EXTENSIONS

- If a seal is provided on 4 sides (for example with a Kaltefeind or a Schall-Ex) :  
– 100 % à + 50 % of the total surface of the test body.
- Any increase / and / or decrease in size (width and / or height) is therefore possible, provided that the total surface of the test body (W x H Doorframe) is not larger than :

| Dimension limit | Door frame surface         |
|-----------------|----------------------------|
| Single door     | 4,21 m² (= 2,81 m² x 1,5)  |
| Double door     | 13,90 m² (= 9,27 m² x 1,5) |

TESTS PERFORMED BY THE CSTC-WTCB | Scientific and Technical Center for Construction

The CSTC-WTCB is notified as a test laboratory within the framework of the directive 89/106/EEG of the European Commission under number 1136

According to standards :

- NBN EN 14351-1 (2006) : «Windows and doors - Product standard, performance characteristics - Part 1: Windows and exterior door units for pedestrians»  
NBN EN 1026 (2000) : «Windows and doors - Air permeability - Test method»  
NBN EN 12207 (2000) : «Windows and doors - Air permeability - Classification»



www.heinen-doors.com