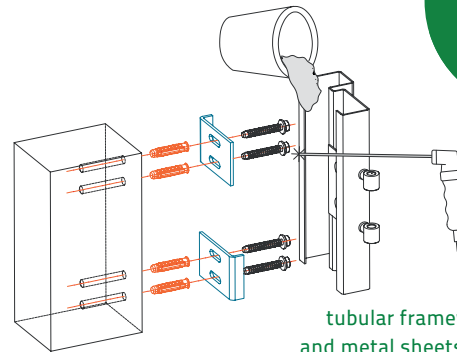


All Heinen doors are constructed on the basis of the METAL+ concept, lending them superior basic performance standards.



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



### U-VALUE (W/m<sup>2</sup>K) OF SINGLE DOORS



#### Solid Single Door

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe |
|----------|-----------------|-------|---------------------------|--------------------------|
| Type 1   | 960 x 2150 mm   | 1,9   | 1,7                       | 1,6                      |
| Type 2.2 | 1200 x 2270 mm  | 1,7   | 1,5                       | 1,5                      |
| Type 2.4 | 1200 x 2400 mm  | 1,9   | 1,7                       | 1,6                      |
| Type 3.1 | 1450 x 2450 mm  | 1,7   | 1,5                       | 1,4                      |
| Type 3.4 | 1450 x 3035 mm  | 1,8   | 1,6                       | 1,5                      |



#### Single Door Oculus Type 1\*

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m <sup>2</sup> K | + glazing HP 0,5 W/m <sup>2</sup> K |
|----------|-----------------|-------|---------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Type 1   | 960 x 2150 mm   | 2,3   | 2,0                       | 1,9                      | 1,9                                 | 1,8                                 |
| Type 2   | 1200 x 2400 mm  | 2,1   | 1,8                       | 1,7                      | 1,7                                 | 1,7                                 |
| Type 3.1 | 1450 x 2450 mm  | 2,0   | 1,7                       | 1,6                      | 1,6                                 | 1,6                                 |
| Type 3.4 | 1450 x 3035 mm  | 1,9   | 1,7                       | 1,6                      | 1,6                                 | 1,6                                 |

\*Glass cutout 185 x 485 mm



#### Single Door Oculus Type 2\*

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m <sup>2</sup> K | + glazing HP 0,5 W/m <sup>2</sup> K |
|----------|-----------------|-------|---------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Type 1   | 960 x 2150 mm   | 2,8   | 2,3                       | 2,2                      | 2,2                                 | 2,1                                 |
| Type 2   | 1200 x 2400 mm  | 2,3   | 2,0                       | 1,9                      | 1,9                                 | 1,7                                 |
| Type 3.1 | 1450 x 2450 mm  | 2,1   | 1,8                       | 1,8                      | 1,7                                 | 1,7                                 |
| Type 3.4 | 1450 x 3035 mm  | 2,0   | 1,7                       | 1,7                      | 1,6                                 | 1,6                                 |

\*Glass cutout 360 x 1160 mm



#### Single Door Max. glazed

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m <sup>2</sup> K | + glazing HP 0,5 W/m <sup>2</sup> K |
|----------|-----------------|-------|---------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Type 1   | 960 x 2150 mm   | 3,0   | 2,7                       | 2,6                      | 2,4                                 | 2,3                                 |
| Type 2   | 1200 x 2400 mm  | 2,7   | 2,4                       | 2,3                      | 2,2                                 | 2,0                                 |
| Type 3.1 | 1450 x 2450 mm  | 2,6   | 2,3                       | 2,2                      | 2,0                                 | 1,9                                 |
| Type 3.4 | 1450 x 3035 mm  | 2,5   | 2,2                       | 2,1                      | 2,0                                 | 1,8                                 |



## U-VALUE (W/m²K) OF DOUBLE DOORS



### Solid Double Door

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe |
|----------|-----------------|-------|---------------------------|--------------------------|
| Type 1   | 960 x 2150 mm   | 1,6   | 1,5                       | 1,4                      |
| Type 2.2 | 1200 x 2270 mm  | 1,5   | 1,3                       | 1,3                      |
| Type 2.4 | 1200 x 2400 mm  | 1,7   | 1,4                       | 1,4                      |
| Type 3.1 | 1450 x 2450 mm  | 1,5   | 1,3                       | 1,3                      |
| Type 3.4 | 1450 x 3035 mm  | 1,6   | 1,4                       | 1,3                      |



### Double Door Oculus Type 1\*

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m²K | + glazing HP 0,5 W/m²K |
|----------|-----------------|-------|---------------------------|--------------------------|------------------------|------------------------|
| Type 1   | 960 x 2150 mm   | 2,0   | 1,7                       | 1,6                      | 1,6                    | 1,6                    |
| Type 2   | 1200 x 2400 mm  | 1,9   | 1,6                       | 1,5                      | 1,5                    | 1,5                    |
| Type 3.1 | 1450 x 2450 mm  | 1,8   | 1,5                       | 1,5                      | 1,5                    | 1,5                    |
| Type 3.4 | 1450 x 3035 mm  | 1,7   | 1,5                       | 1,4                      | 1,4                    | 1,4                    |

\*Glass cutout 185 x 485 mm



### Double Door Oculus Type 2\*

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m²K | + glazing HP 0,5 W/m²K |
|----------|-----------------|-------|---------------------------|--------------------------|------------------------|------------------------|
| Type 1   | 960 x 2150 mm   | 2,5   | 2,1                       | 2,0                      | 2,0                    | 1,9                    |
| Type 2   | 1200 x 2400 mm  | 2,1   | 1,8                       | 1,7                      | 1,7                    | 1,6                    |
| Type 3.1 | 1450 x 2450 mm  | 1,9   | 1,6                       | 1,6                      | 1,6                    | 1,5                    |
| Type 3.4 | 1450 x 3035 mm  | 1,8   | 1,6                       | 1,5                      | 1,5                    | 1,5                    |

\*Glass cutout 360 x 1160 mm



### Double Door Max. glazed

|          | Leaf dimensions | basic | leaf reinforcement option | +thermal break doorframe | + glazing HP 0,8 W/m²K | + glazing HP 0,5 W/m²K |
|----------|-----------------|-------|---------------------------|--------------------------|------------------------|------------------------|
| Type 1   | 960 x 2150 mm   | 2,7   | 2,4                       | 2,3                      | 2,2                    | 2,0                    |
| Type 2   | 1200 x 2400 mm  | 2,4   | 2,2                       | 2,1                      | 1,9                    | 1,8                    |
| Type 3.1 | 1450 x 2450 mm  | 2,3   | 2,0                       | 2,0                      | 1,8                    | 1,6                    |
| Type 3.4 | 1450 x 3035 mm  | 2,2   | 2,0                       | 1,9                      | 1,7                    | 1,6                    |

## CALCULATIONS CARRIED OUT BY THE CSTC-WTCB

| Scientific and Technical Center for Construction

### According to standards :

EN ISO 10077-1 (2006) : Thermal performance of windows, doors and closures - Calculation of the thermal transmittance - Part 1: General

EN ISO 10077-2 (2012) : Thermal performance of windows, doors and closures - Calculation of the thermal transmission coefficient - Part 2: Numerical method

EN ISO 6946 (2007) : Building components and walls - Thermal resistance and coefficient of thermal transmission - Calculation method

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

Heinen product sheet | FTHE 0070 - U-Value (Thermal transmission) | 2024-03-14\_FTHE 0070 - V05EN

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