

# Attic stairs AluDrei datasheet

Use configurator: [www.massbox.de](http://www.massbox.de)

So far German only. Sorry for the inconvenience. Please use internet browser for translation.

## Dimensions in centimetres

| Standard sizes  |           |          |          |          | Custom-made    |
|---|-----------|----------|----------|----------|----------------|
| Ceiling opening dimensions<br>(Length x Width)  | 110 x 60  | 120 x 60 | 130 x 60 | 140 x 60 | min. 100 x 50  |
|   | 110 x 70  | 120 x 70 | 130 x 70 | 140 x 70 | max. 160 x 100 |
| Ceiling thickness = casing height   | 25        |          |          |          | 17 - 90*       |
| <b>Floor-to-ceiling heights</b> and additional features determine the minimum length of the ceiling opening. <b>Use configurator!</b> |           |          |          |          |                |
| Floor-to-ceiling height (min. - max.)   | 197 - 360 |          |          |          |                |

Dimensions are construction site dimensions for **attic stairs AluDrei with thermal protection WS3D**. Divergent dimensions may apply in combination with additional features. Ceiling opening dimensions = order dimensions. For installation space, factory-made casing dimensions are 1.5 cm (length/width) smaller.

\* High casings for thick ceilings are provided with EN compliant additional step/s, e.g. AD WS3D from casing height  $\geq 36$  cm: 1 add. step, from  $\geq 69$  cm: 2 add. steps. For ceiling thicknesses  $< 25$  cm the casing is lowered only at the exit, otherwise keeps the circumferential 25 cm height for safe fixing of the guardrail.

### Frame

19 mm P5 multifunction board, foil-coated, white, suited for load-bearing purposes in moist areas indoors (EN 13986-P5)

### Attic hatch door (divergent with ceiling-flush version)

19 mm chipboard, melanine resin-coated, white, circumferential ABS furniture edge

### hoka twin-wall-sealing

TPV-profile with two degrees of hardening, lift range of sealing 4 mm, resistant against temperature / environmental influences and ageing, circumferential with groove in the attic hatch fold

### Cover profiles (divergent with ceiling-flush version)

Plastic, white, rounded special profile 40 x 6 mm, on mitre, pre-mounted adhesive tape, plugin-system with corner joints; for custom-made attic stairs 55 mm wide as an option

### Lifting mechanism

Well-engineered lever / spring system balances weight of stairs; even contact pressure for proper closing; ZD latch with ring eye

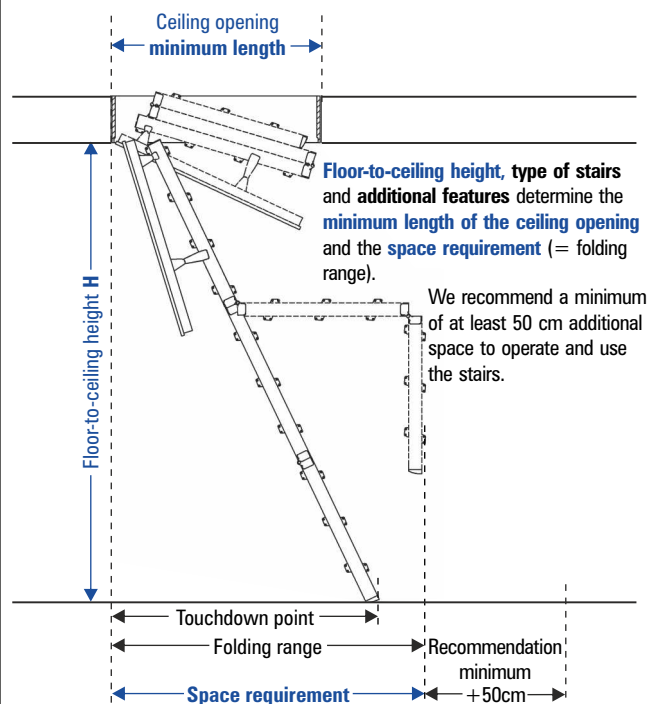
### Swivel fitting

For controlling the attic hatch door; not visible when closed, allows cladding up to a thickness of 20 mm and a distributed load of 10 kg/m<sup>2</sup> (hatch door  $\leq 1$  m<sup>2</sup>); request stronger springs for hatch doors  $> 1$  m<sup>2</sup>

### Stairs AluDrei, 3-section folding aluminium stairs

Stringers: Aluminium profile with rounded edges, cover caps and floor protectors, thickness 20 x 71 mm

Steps: Corrugated aluminium steps, depth 11 cm, thickness 38 mm, stair width standard 40 cm  
Ceiling opening width  $< 60$  cm: stairs 35 cm wide  
Ceiling opening width  $< 55$  cm: stairs 30 cm wide



# Attic stairs AluDrei additional features

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## Energy conservation

### Thermal protection WS3D (as standard)

Material: 48 mm thermodeck insulation  
Ceiling connection system:  
double-sided adhesive sealing tape and insulation braid

Tests: Attic stairs and connection system component tested:  
**WS3D: Insulation value  $U=0.80$  W/(m<sup>2</sup>K)**  
tested, DIN EN ISO 12567-1:2010-12, IBP Fraunhofer Stuttgart  
**Airtightness Class 4 / sealing value  $a=0.01$  m<sup>3</sup>/hm(daPa<sup>2/3</sup>)**  
tested, i. acc. DIN EN 12207 / DIN EN 1026:2016-09, PfB  
**Climate stability Class 3** climate category c/d  
tested, i. acc. DIN EN 12219:2000-06, PfB

incl. WS installation kit (contains all the required materials) and the certified connection system for **airtight installation**

Insulated!  
Air-tight!  
Climate stable!

### Thermal protection WS4D

Material: 96 mm thermodeck double insulation  
Ceiling connection system:  
double-sided adhesive sealing tape and insulation braid

Tests: Attic stairs and connection system component tested:  
**WS4D: Insulation value  $U=0.58$  W/(m<sup>2</sup>K)**  
tested, DIN EN ISO 12567-1:2010-12, IBP Fraunhofer Stuttgart  
**Airtightness Class 4 / sealing value  $a=0.01$  m<sup>3</sup>/hm(daPa<sup>2/3</sup>)**  
tested, i. acc. DIN EN 12207 / DIN EN 1026:2016-09, PfB  
**Climate stability Class 3** climate category c/d  
tested, i. acc. DIN EN 12219:2000-06, PfB

incl. WS installation kit (contains all the required materials) and the certified connection system for **airtight installation**

From casing height  $\geq 37$  cm: 1 add. step; from  $\geq 75$  cm: 2 add. steps.

Double insulated!  
Air-tight!  
Climate stable!

### Thermal protection WSPH Passive House

96 mm thermodeck double insulation;  
hoka TPV-profile twin-wall double sealing;  
PH-connection system for certified execution of the installation gap with double faced adhesive airtight sealing tape for connection to the airtight level, insulation braids above and below and thermal pearls

Certificate: Attic stairs incl. PH-connection system  
**Passive house component for cold climate**  
Thermal bridge coefficients:  
 $\Psi=0.05$  W/(mK) in wooden-beam ceiling  
 $\Psi=0.07$  W/(mK) in concrete ceiling  
WSPH: Insulation value  $U_D=0.48$  W/(m<sup>2</sup>K)  
certified, Passivhaus-Institut Darmstadt

Passive House  
Certificate!

incl. PH installation kit (contains all the required materials) and the certified PH-connection system

| Dimensions in centimetres                   | AluDrei WSPH                   |
|---|--------------------------------|
| Ceiling opening dimensions (Length x Width) | min. 106 x 55<br>max. 160 x 80 |
| Ceiling thickness = casing height           | 25 - 90                        |
| <b>Floor-to-ceiling heights</b>             |                                |
| Floor-to-ceiling height (min. - max.)       | 197 - 360                      |

Dimensions are construction site dimensions. Divergent dimensions may apply in combination with further additional features.  
Ceiling opening dimensions = order dimensions. For installation space, factory-made WSPH casing dimensions are 4 cm (length/width) smaller. Wide cover profiles as standard.  
High casings for thick ceilings are provided with EN compliant additional step/s: casing height  $\geq 36$  cm: 1 add. step, from  $\geq 75$  cm: 2 add. steps.  
Floor-to-ceiling height, type of stairs and additional features determine the minimum length of the ceiling opening. Use configurator!

## Safety

### Guardrail

Solid wood; 4 posts: 32 x 32 mm; 2 triangular supports: 85 x 20 mm; 6 profiled strips: 47 x 20 mm;  
railing height 90 cm; tested stability 500N (DIN 1055)  
incl. all required installation materials

Building regulations!

### AluDrei-handrail

Solid wood, 18 x 38 mm, length 74 cm; with very high floor-to-ceiling heights EN compliant 104 cm long version.  
Right, left and double sided possible

User safety!

### Lock

- Deadlock with round cylinder
- Prepared for profile cylinder

## Optics

### Ceiling-flush version

Additional lower cover with a smooth visible side;  
ring eye and sealing disk in white, coated pull hook,  
plastering profiles for on-site plastering  
Easy-installation system: detachable hatch door  
Solid installation must be ensured on-site.

## Fire protection

See fire protection datasheet

## Flat roof exit

See flat roof exit datasheet

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