

Attic stairs AluDrei datasheet

Use configurator: 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 (Length x Width)	110 x 60 110 x 70	120 x 60 120 x 70	130 x 60 130 x 70	140 x 60 140 x 70	min. 100 x 50 max. 160 x 100
Ceiling thickness = casing height	25				17 - 90*
Floor-to-ceiling heights and additional features determine the minimum length of the ceiling opening. Use configurator!					
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 ≥ 36 cm: 1 add. step, from ≥ 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

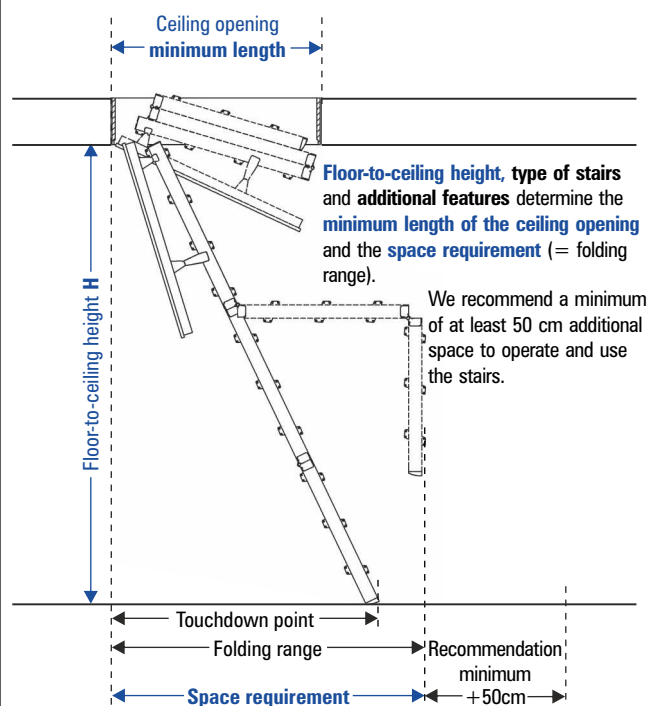
Swivel fitting

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/m² (hatch door ≤ 1 m²); request stronger springs for hatch doors > 1 m²

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



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Maintenance

Oil all joints / rotation points and control firm fit of screws annually. Pay attention to humidity at time of installation and when using. A User and Safety Guide is attached to all attic stairs.

DIN EN
14975
DIN
3193

All Wellhöfer attic stairs are manufactured in accordance with DIN-EN. Attic stairs **AluDrei** are overload method tested for a load of **200 kg**.

Endurance tested: 3.000 opening / closing cycles

This Wellhöfer test equals 30 years of average usage.

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/(m²K)
tested, DIN EN ISO 12567-1:2010-12, IBP Fraunhofer Stuttgart
Airtightness Class 4 / sealing value $a=0.01$ m³/hm(daPa^{2/3})
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/(m²K)
tested, DIN EN ISO 12567-1:2010-12, IBP Fraunhofer Stuttgart
Airtightness Class 4 / sealing value $a=0.01$ m³/hm(daPa^{2/3})
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 ≥ 37 cm: 1 add. step; from ≥ 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/(m²K)

certified, Passivhaus-Institut Darmstadt

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

Passive House
Certificate!

Dimensions in centimetres	AluDrei WSPH
Ceiling opening dimensions (Length x Width)	min. 106 x 55 max. 160 x 80
Ceiling thickness = casing height	25 - 90
Floor-to-ceiling heights	
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 ≥ 36 cm: 1 add. step, from ≥ 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