

Best thermal protection: Certified Attic Stairs with WSPH.



Already future-proof.

The EU Directive requires the **nearly zero-energy standard** for newly constructed buildings (from 31.12.2020 onward) and in public authority buildings (already from 31.12.2018 onward). This also applies to refurbishments which effect more than 25 percent of the building envelope. Regardless of the type of building, with attic stairs with thermal protection WSPH you benefit from our **best solution for energy conservation and satisfy the requirements of 2020.**

Certificate: Planning security.

It is time to put an end to *unclear U-values* and vague statements like *"suitable for passive houses"*. **Wellhöfer attic stairs with thermal protection WSPH** provide you the safety of the certification by the Passive House Institute. Maximized double insulation, new double sealing and a specialized PH-connection system meet the stringent criteria for the **overall system "attic stairs + ceiling"** including the thermal bridges: **Certified Passive House component for cold climate.**

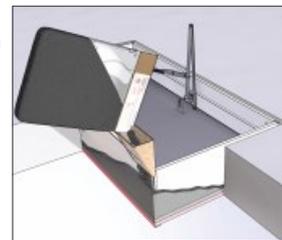
The certified PH-connection system is always included:

Safe installation in practise.



The *thermal bridge* between attic stairs and ceiling is the *critical weak point*. The **PH-connection system*** provides the certified solution. Sealing tape, insulation braid and insulation pearls for the 2-cm wide installation gap are **always included** and are easy to install.

Certified connection - quick, safe, practice orientated.



*Patent pending

The additional feature **certified thermal protection passive house WSPH** is available for the Wellhöfer attic stairs GutHolz, StahlBlau and Liliput:



Certified Passive House Attic Hatches on request.

wellhöfer
TREPPEN AUS WÜRZBURG
www.wellhoefer.de

Product Description

Attic Stairs with thermal protection WSPH

Changes of technical details, due to continuous development, might happen without notice. Current status: www.wellhoefer.de



Attic hatch

Casing dimensions (length/width) are 4 cm smaller than the ceiling opening.

Standard Size (dimensions of the ceiling opening in cm)

	StahlBlau	GutHolz	Liliput
Length	110, 120, 130, 140		90, 100
Width	70	60, 70	
Casing Height	25		

Custom Made (dimensions of the ceiling opening in cm)

	StahlBlau	GutHolz	Liliput
Length	110 - 160	106 - 160	85 - 160
Width	65 - 80	55 - 80	
Casing Height	25 - 90		

1 additional step and extra height from casing height ≥ 38

2 additional steps and extra height from casing height ≥ 71

Oversize: Length > 140

Thermal protection WSPH Passive House

96 mm Polyethylene-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 complete installation materials) and the certified PH-connection system

Additional features (for all types of stairs)

Guardrail

Solid wood; 4 posts: 33x33 mm; 2 triangular supports: 85x20 mm; 6 profiled strips: 47x20 mm; railing height 90 cm

Test: Stability 500N (DIN 1055)

incl. all required installation materials

Handrail

Wood: 18x38 mm; for StahlBlau/GutHolz

Telescope: 30 mm; only for Liliput concertina loft ladder

up to ceiling thickness ≤ 43 cm or ceiling opening length ≥ 100 cm

Flat roof exit

All details on the Flat Roof Exit brochure.

Fire protection FS30

All details on the Fire protection brochure.

Stairs

Ceiling to floor height (from > 272 excess height)

	StahlBlau	GutHolz	Liliput
Ceiling to floor height	237 - 314	197 - 360	190 - 315

Ceiling to floor height determines minimum length of the ceiling opening.

GutHolz, 3-section folding wooden stairs

Stringers: Solid wood stringboard, thickness 20 x 85 mm

Steps: Corrugated, non-slip hardwood steps, depth 9 cm, thickness 17 mm, stair width standard 40 cm, dovetail joint

StahlBlau, 3-section folding steel stairs

Stringers: Steel tube stringer; $\varnothing 27$ mm

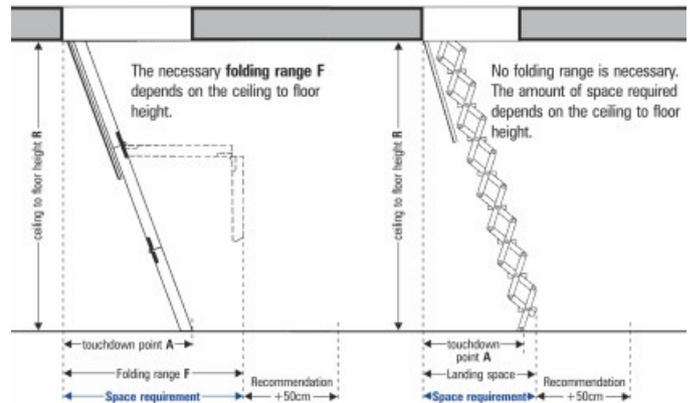
Steps: Welded steel steps, depth 11 cm, with profiled, embedded PVC step coating; stair width 40 cm

Stringers and steps powder-coated in blue

Liliput, concertina loft ladder

Stringers: Aluminium profile, thickness 10 x 34 mm

Steps: Profiled aluminium steps, depth 11 cm, thickness 26 mm, stair width standard 40 cm



The specific space requirement (= folding range of the 3-section attic stairs and / or touchdown point with concertina loft ladders) depends on the ceiling to floor height. We recommend to add a further 50 cm of space for handling and a more comfortable use of the stairs.

Maintenance

Lubricate 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
(2007-03; Rev. N: 001)

All attic stairs are manufactured in accordance with DIN and withstand mechanical stress of a maximum of 150 kg.

Certified Passive House Attic Hatches on request.

Please contact us for further details.

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