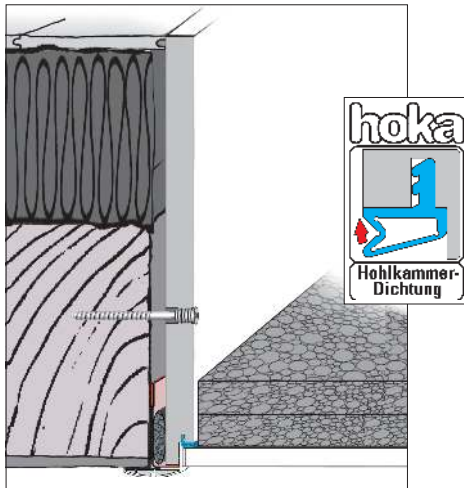


# Wellhöfer attic stairs with **WärmeSchutz**: More than only insulation!

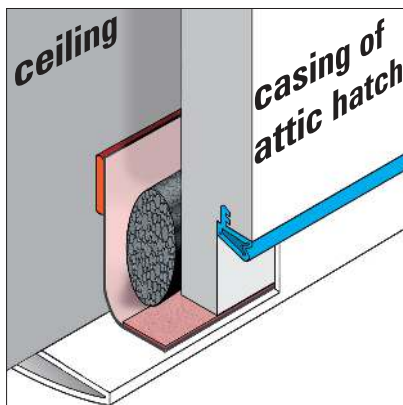


**Double Insulation**  
+ **Twin-wall sealing**  
+ **Sealing System**  
= **WärmeSchutz**  
= thermal protection

## Insulation and sealing.

The attic stairs cut in on the ceiling on about 1 sqm. Only the Wellhöfer WärmeSchutz offers full surface covering insulation and the efficient hoka twin-wall sealing. There are no hidden weak points.

**Thermal protection - Visibly effective!**



## Airtight ceiling connection.

Insulation and sealing are of little use if the air is blowing through the installation gap. It is 4 metres long! Mould growth and structural damage may be the consequence.

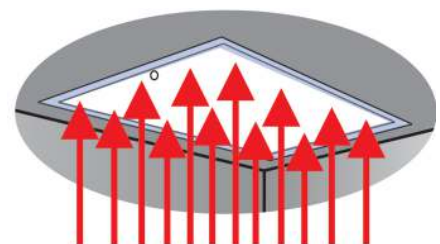
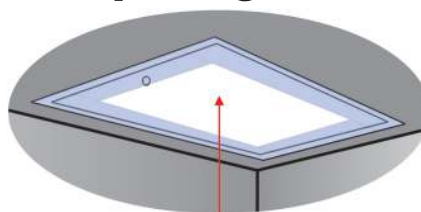
The certificated sealing system ensures the airtight installation.

Always included with the Wellhöfer WärmeSchutz.

**Sealing system - Ensures the airtight gap!**

## Be careful when comparing U-values!

U-value indications for attic stairs differ considerably. Do not let sensational values confuse you. When comparing U-values, it is essential to know how the different values have been created.



according to DIN EN ISO 12567-1:2001-02  
by an independent institute

This simplified sketch of the closed attic stairs (view from below) shows:  
The component tested U-value for the complete attic stairs is the honest one.  
Insist on this! With the U-value, look for the information:

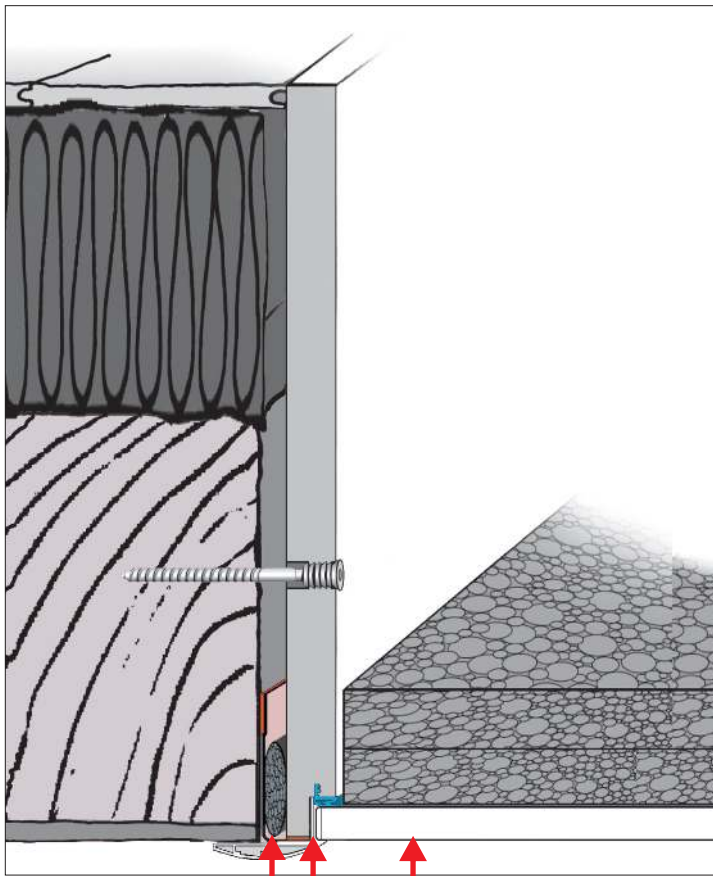
■ tested ■ DIN EN ■ Test institute

Only the test certificate proves that the value is reasonable.

**Wellhöfer WärmeSchutz - With the honest U-value. Component tested.**

**wellhöfer**  
TREPPEN AUS WÜRZBURG

# Wellhöfer attic stairs with **WärmeSchutz**. More than only insulation!



**Double Insulation**  
**+ Twin-wall sealing**  
**+ Sealing System**  


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**= WärmeSchutz**  
 = thermal protection



## Certificated reliability!

Be careful when comparing values! Look out for  
**test certificates from independent institutes.**  
 Wellhöfer thermal protection stands for:

■ **WärmeSchutz 4D: Insulation value  $U=0,78$  W/(m<sup>2</sup>K)**

tested and certified, DIN EN ISO 12567-1: 2001-02, *for higher expectations!*  
 IBP Fraunhofer Stuttgart, 22.10.2009, test report no. P5-185/2009

■ **Sealing value attic stairs  $a=0,03$  m<sup>3</sup>/hm(daPa<sup>2/3</sup>)**

tested and certified, DIN EN 1026: 2000-09,  
 ift Zentrum PTE Rosenheim, 06.06.2011, test certificate no. 11/03-A118-Z1

■ **Sealing value sealing system  $a=0,02$  m<sup>3</sup>/hm(daPa<sup>2/3</sup>)**

tested and certified, based on DIN EN 1026: 2000-09, *that is what's important!*  
 ift Zentrum PTE Rosenheim, 06.06.2011, test certificate no. 11/03-A118-Z3

**Component tested and certificated values:**

**Reliability for EnEV\* and blower-door-test.**

\*(German Energy Conservation Regulation)



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