

**Heradesign.**

for good architecture

# Heradesign<sup>®</sup> *micro* Product Data & Certificates


# Overview of Certificates

## Heradesign® *micro*

**1-layer** magnesite bonded wood wool acoustic panel with fine-pored structure, building biology recommended.

### Colour variations

The natural, characteristic texture of wood wool is perfectly suitable as a surface for creative colour design. An almost unlimited range of colours is available – almost every colour tone from popular colour systems such as RAL, NCS, BS or StoColor can be chosen.

Nominal size mm	600 x 600, 625 x 625 1200 x 600, 1250 x 625
Thickness mm	25.0 35.0
Weight kg/m <sup>2</sup>	15.0 19.0
Sound absorption value $\alpha_W$ up to 0.55	
Reaction to fire acc. to EN 13501-1: <b>B-s1, d0</b>	
Product declaration: WW-EN 13168-L3-W2-T2-S3-P2-CS(10) 200-CI3	
 EC Conformity Certificate Reg. No.: K1-0751-CPD-209.0-02-01/2011	
ABZ General Building Approval: Z-23.15-1562	

white similar to RAL 9010	beige natural tone 13	Pastel colours	Solid colours	Metallic colours	Special colours
✓	✓	✓	✓	✓	✓

### Areas of application

As decorative, acoustically effective suspended ceilings and wall coverings for use indoors and in covered outside areas that are not exposed to weather such as rain or environmental pollution.

### Limitations of use

- Maximum span is 625 mm
- Suitable for rooms with a constant relative humidity of up to 90%. Application in rooms with a constant relative humidity higher than 80% requires consultation with structural-physical experts.
- Not suitable for glue mounting!

### Installation

The installation of Heradesign acoustic panels is part of interior decorating and may only be carried out under controlled humidity and temperature conditions. All dust-causing construction measures must be completed before starting the installation.

Store panels flat and protect against moisture and dirt. The packaging does not protect the product against rain! Please pay attention to the relevant application, installation and storage guidelines for Heradesign acoustic panels.

### Special notes

- Deviations in colour tone from the colour chart and colour perception are possible due to the rough fibre or panel surface.
- Manufacturing tolerance for nominal size:  
L3, W2, T2:  $\pm 1$  mm, for lengths  $> 1200$  mm L3:  $\pm 2$  mm.
- A film (thickness  $< 30$   $\mu$ m) is recommended as trickle protection for mineral wool linings.
- Maximum dimensional changes in a standard climate of 23°C/50% rel. humidity is  $\pm 1$  %.

This Product Information corresponds with the current state of development of our products and will cease to be valid upon publication of a new edition. Please check that you are using the latest edition of this information. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information. Version of 1st Apr 2011.

## Safety against ball throwing according to DIN 18 032 / Part 3 / Ceiling

Test specimen	Construction	Country / Test Institute	Certificate No.	Result
<b>Heradesign® micro</b>				
Thickness: 25 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, CD sections 27 x 60 x 0.6 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/13/Sc/Kf	"safe against ball throwing" acc. to DIN 18 032 / Part 3
Thickness: 25 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, U-shaped steel sections 26 x 80 x 26 x 0.55 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/23/Sc/Kf	safe against ball throwing" acc. to DIN 18 032 / Part 3 or Class 1A acc. to EN 13964, Annex D
Thickness: 25 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, wood lath size 60 x 30 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/16/Sc/Kf	"safe against ball throwing" acc. to DIN 18 032 / Part 3 or Class 1A acc. to EN 13964, Annex D
Thickness: 25 mm Size: 1200 x 600 Edge: SK-04	Insertion installation, hanger (Quicklock), centre distance 1200 mm, in T-sections 24 x 38 x 0.5 mm	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/17/Sc/Kf	safe against ball throwing" acc. to DIN 18 032 / Part 3 or Class 1A acc. to EN 13964, Annex D
Thickness: 35 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, CD sections 27 x 60 x 0.6 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/11/Sc/Kf	"safe against ball throwing" acc. to DIN 18 032 / Part 3

## Safety against ball throwing according to DIN 18 032 / Part 3 / Wall

Test specimen	Construction	Country / Test Institute	Certificate No. /Date	Result
<b>Heradesign micro</b>				
Thickness: 25 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, wood lath size 60 x 30 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/21/Sc/Kf	safe against ball throwing" acc. to DIN 18 032 / Part 3 or Class 1A acc. to EN 13964, Annex D
Thickness: 25 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, CD sections 27 x 60 x 0.6 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/03/Sc/Kf	"safe against ball throwing" acc. to DIN 18 032 / Part 3
Thickness: 35 mm Size: 1250 x 625 Edge: AK-01	Screw mounting, wood lath size 60 x 30 mm, centre distance ≤ 625 mm, mounting: 9 screws/ panel, Heradesign screws	D FMPA Baden-Württemberg (Institute for Research and Material Testing), FMPA Stuttgart	901 7927 00/05/Sc/Kf	"safe against ball throwing" acc. to DIN 18 032 / Part 3 or Class 1A acc. to EN 13964, Annex D

# Overview of Certificates

## Sound absorption values

Test specimen					Certificate			Sound absorption coefficient $\alpha$								
Panel type	Thick- ness (mm)	TCH <sup>1)</sup> (mm)	Back- Filling (mm)	Type <sup>2)</sup>	Test Institute/ Country	No.	Date	Frequencies (Hz) , $\alpha_p$						Full range		Class
								125	250	500	1000	2000	4000	NRC <sup>3)</sup>	$\alpha_w$	
without backfilling																
Heradesign <i>micro</i>	25	25	0	---	SRL/UK	6019	15.03.10	0.10	0.40	0.55	0.40	0.30	0.35	0.40	0.40	D
Heradesign <i>micro</i>	25	55	0	---	TGM/Vienna	TM TGM 10656_09	18.06.03	0.25	0.45	0.55	0.45	0.40	0.45		0.45	D
Heradesign <i>micro</i>	25	85	0	---	TGM/Vienna	TM TGM 11233_07	15.12.08	0.25	0.60	0.70	0.55	0.45	0.50		0.55 (L)	D
Heradesign <i>micro</i>	25	225	0	---	Fraunhofer **	P-BA 127/2009	15.12.09	0.30	0.30	0.25	0.25	0.27	0.34		0.30	D
Heradesign <i>micro</i>	35	35	0	---	SRL/UK	6018	15.03.10	0.25	0.50	0.40	0.25	0.25	0.35	0.35	0.30 (L)	D
Heradesign <i>micro</i>	35	135	0	---	Fraunhofer **	P-BA 121/2009	15.12.09	0.30	0.30	0.25	0.25	0.25	0.25	0.30	0.25 (L)	E
with mineral wool																
Heradesign <i>micro</i>	25	200	40	DP-5	SRL/UK	6028	15.03.10	0.50	0.50	0.40	0.30	0.35	0.40	0.35	0.35 (L)	D
Heradesign <i>micro</i>	25	300	40	DP-5	TGM/Vienna	TM TGM 10656_5	18.06.03	0.45	0.45	0.45	0.45	0.45	0.50		0.45	D
Heradesign <i>micro</i>	25	225	60	DP-5	Fraunhofer **	P-BA 128/2009	15.12.09	0.30	0.35	0.25	0.25	0.25	0.30		0.25 (L)	E
Heradesign <i>micro</i>	25	125	100	DP-5	Fraunhofer **	P-BA 133/2009	15.12.09	0.15	0.35	0.40	0.30	0.25	0.25		0.30 (L)	D
Heradesign <i>micro</i>	25	200	100	DP-9	SRL/UK	6027	15.03.10	0.50	0.45	0.40	0.30	0.35	0.40	0.40	0.35 (L)	D
Heradesign <i>micro</i>	35	135	30	DP-7	Fraunhofer **	P-BA 123/2009	15.12.09	0.35	0.30	0.25	0.25	0.25	0.30		0.25 (L)	E
Heradesign <i>micro</i>	35	200	40	DP-5	SRL/UK	6029	15.03.10	0.45	0.35	0.30	0.30	0.30	0.35	0.30	0.30 (L)	D

1) TCH: total construction height; lower edge of bare ceiling to lower edge of Heradesign acoustic panel

2) Type: DP-5: gross density = 50 kg/m<sup>3</sup>








DP-7: gross density = 70 kg/m<sup>3</sup>

DP-9: gross density = 90 kg/m<sup>3</sup>

3) NRC: average sound absorption coefficients  $\alpha_s$  at frequencies of 250 + 500 + 1000 + 2000 Hz: 4, rounded to the nearest increment 0.05

\*\* Fraunhofer IBP / Stuttgart

## Fire resistance duration

Construction	Description	Classification	Verification	Technical data sheet
	<b>Heradesign <i>micro</i> (thickness ≥ 25 mm)</b> Suspended as insertion installation in grid system, with mineral wool DP-5 lining $t \geq 2 \times 50$ mm or with mineral wool DP-4 lining $t \geq 2 \times 60$ mm	F 30 as an independent ceiling element	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 06/10
	<b>Heradesign <i>micro</i> (thickness ≥ 35 mm)</b> Suspended as slide-in installation in grid system (VK-09), with mineral wool DP-5 lining $t \geq 2 \times 50$ mm or with mineral wool DP-4 lining $t \geq 2 \times 60$ mm	F 30 as an independent ceiling element	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 06/10
	<b>Heradesign <i>micro</i> (thickness ≥ 25 mm)</b> Screwed to wood laths 40/60 and suspended, with mineral wool DP-5 lining $t \geq 80$ mm	F 30 as an independent ceiling element	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 13/10
	<b>Heradesign <i>micro</i> (thickness ≥ 25 mm)</b> Screwed to CD sections and suspended, with mineral wool DP-5 lining $t \geq 80$ mm	F 30 as an independent ceiling element	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 13/10
	<b>Heradesign <i>micro</i> (25 mm)</b> Screwed to wood laths 30/60 and suspended, with mineral wool DP-9 GS lining $2 \times 50$ mm	EI 30 (a←b)	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 18/10
	<b>Heradesign <i>micro</i> (25 mm)</b> Screwed to CD sections and suspended, with mineral wool DP-9 GS lining $2 \times 50$ mm	EI 30 (a←b)	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 19/10
	<b>Heradesign <i>micro</i> (25 mm)</b> Screwed to wood laths 30/60 and suspended, with mineral wool DP-9 GS lining $2 \times 25$ mm	EI 30 (a←b)	Test Certificate No. 3327/3079 IBMB Braunschweig, Germany	TM 20/10

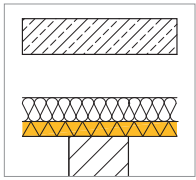
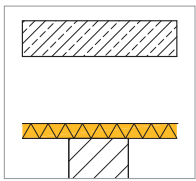
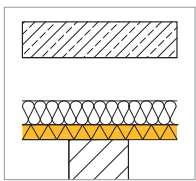
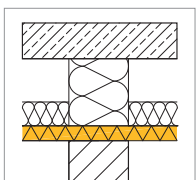
Mineralwolle: Mineral wool: KI rock wool DP-4: gross density = 40 kg/m<sup>3</sup>

KI rock wool DP-5: gross density = 50 kg/m<sup>3</sup>

KI rock wool DP-9: gross density = 90 kg/m<sup>3</sup>

KI rock wool DP-9 GS: gross density = 90 kg/m<sup>3</sup>

## Normalised flanking level difference according to DIN EN ISO 10848-2:2006

Construction	Description	Classification	Verification	Technical data sheet
	Heradesign micro 25 mm, screwed to CD sections 60 x 27 x 0.6 mm, suspension height 400 mm, with 40 mm Heralan DP-5 lining, without partition wall absorber bulkhead	<b>D<sub>n,f,w</sub> = 50 dB</b>	P-BA 142-2009 Date: 15.12.2010	TM-SA-07
	Heradesign micro 25 mm, suspended 700 mm as insertion installation in grid system, without Heralan DP-5 lining and without partition wall absorber bulkhead	<b>D<sub>n,f,w</sub> = 32 dB</b>	P-BA 137-2009 Date: 15.12.2010	TM-SA-10
	Heradesign micro 25 mm, suspended 700 mm as insertion installation in grid system, with 40 mm Heralan DP-5 lining, without partition wall absorber bulkhead	<b>D<sub>n,f,w</sub> = 43 dB</b>	P-BA 136-2009 Date: 15.12.2010	TM-SA-09
	Heradesign micro 25 mm, suspended 700 mm as insertion installation in grid system, with 40 mm Heralan DP-5 lining and 300 mm wide DP-9 partition wall absorber bulkhead	<b>D<sub>n,f,w</sub> = 62 dB</b>	P-BA 135-2009 Date: 15.12.2010	TM-SA-08



Heradesign guarantees that, in accordance with the manufacturer's declaration, the products have been manufactured free from defects and that, in compliance with the stipulated installation conditions or processing guidelines, they will remain fully functional for 15 years from the date of delivery.

(This warranty declaration is not valid for the USA, Canada and France.)



In August 2010 Heradesign was awarded the Blue Angel for its sustainable production methods as well as for using only natural materials and materials that are safe in terms of building biology.

A business unit of Knauf Insulation

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