

**KNAUF**



PLAFONSKI SISTEMI  
Više prostora za inovacije.

**Heradesign**

Acoustic Ceilings

**KNAUF INSULATION**  
*Vreme je za štednju energije!*



**KNAUF AKADEMIJA**

**Dobrodošli**

Subotica, hotel Galleria

24 - 25.10.2014.



KNAUF AKADEMIJA



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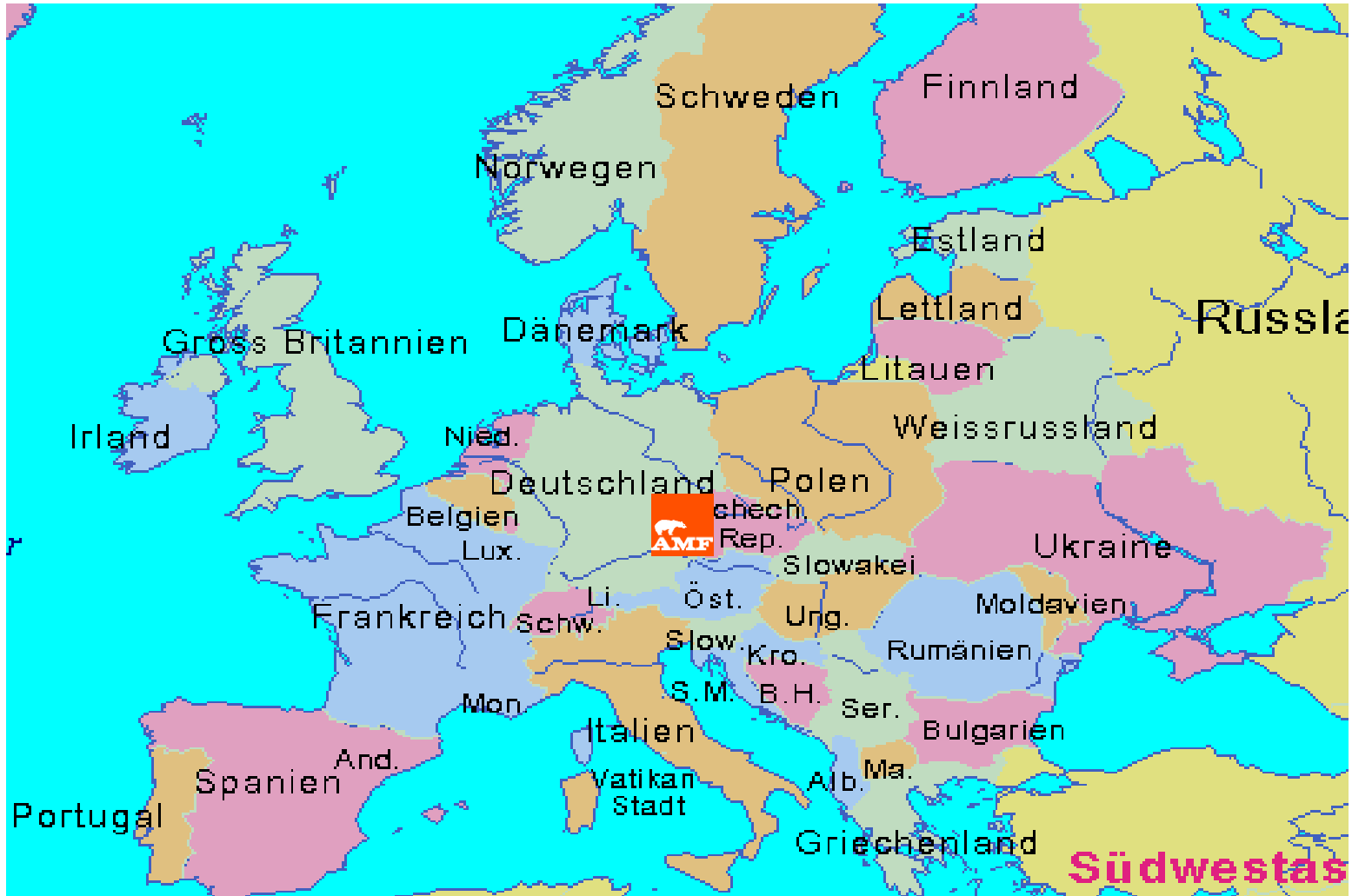
**Knauf AMF d.o.o.**

**Tehnički savetnik SRB/CG/RS  
Dejan Popović, dipl. inž.građ.**



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## MINERAL

Thermatex –plafonske ploče bazirane su na prirodnim materijalima. Glavni sastojci su:

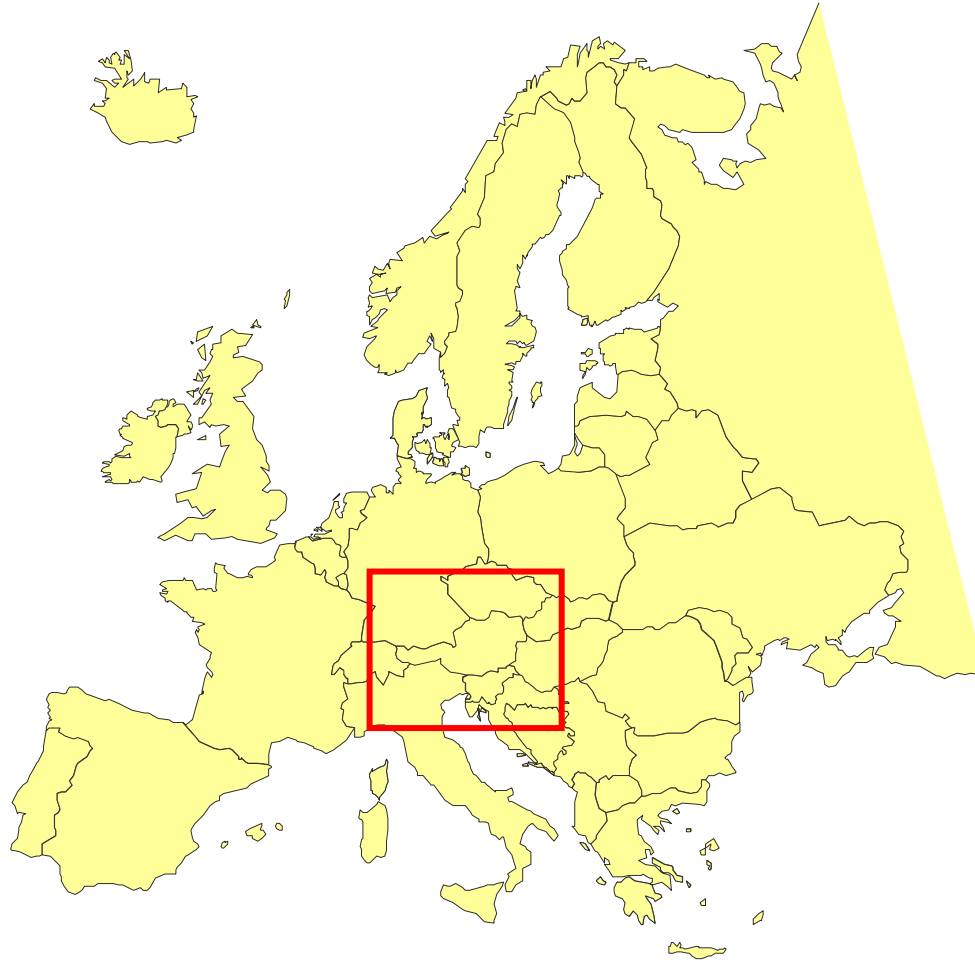
- Mineralna vuna
- Perlit
- Glina
- Skrob

Pored izvanrednih osobina u funkciji zaštite od požara, dominantna su i dobra akustička svojstva.





# The headquarters & factory in Austria

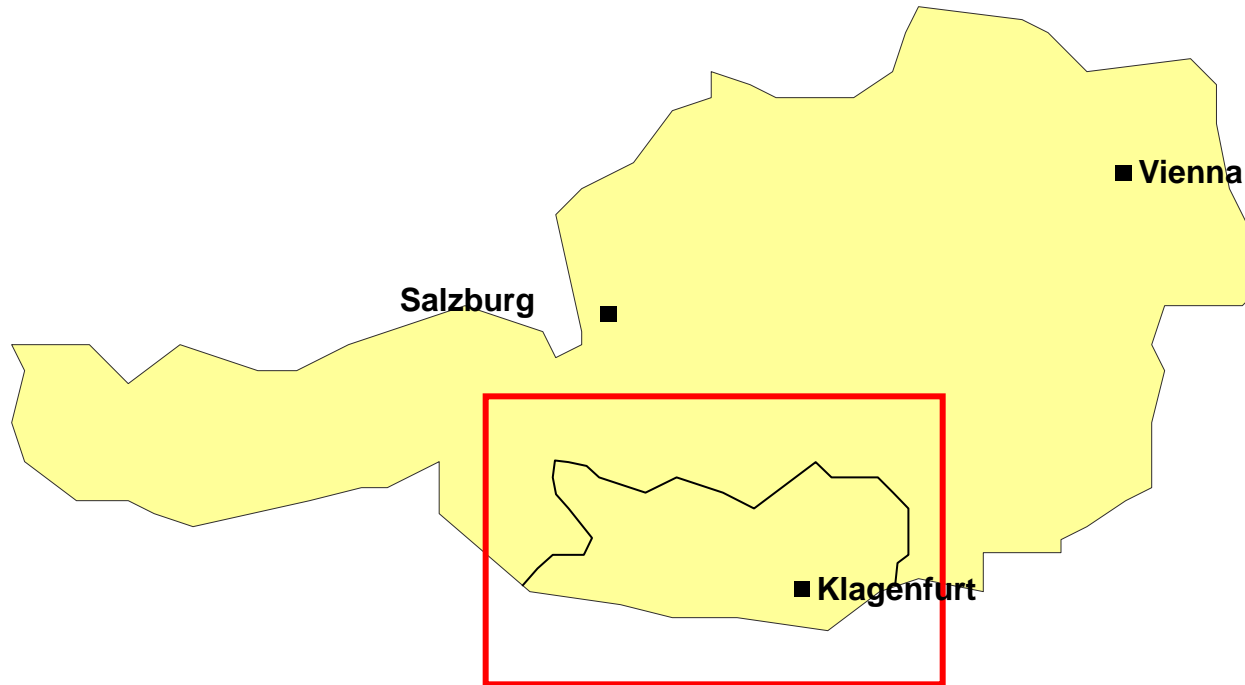


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Acoustic Ceilings



# The headquarters & factory in Austria

**Heradesign®**  
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Factory area: 230.000 m<sup>2</sup>

Wood wool production since 1925

Production per year: >1,7 Mio m<sup>2</sup>



**Heradesign.**

for good architecture

Perfektan sastav .....



Drvena vuna

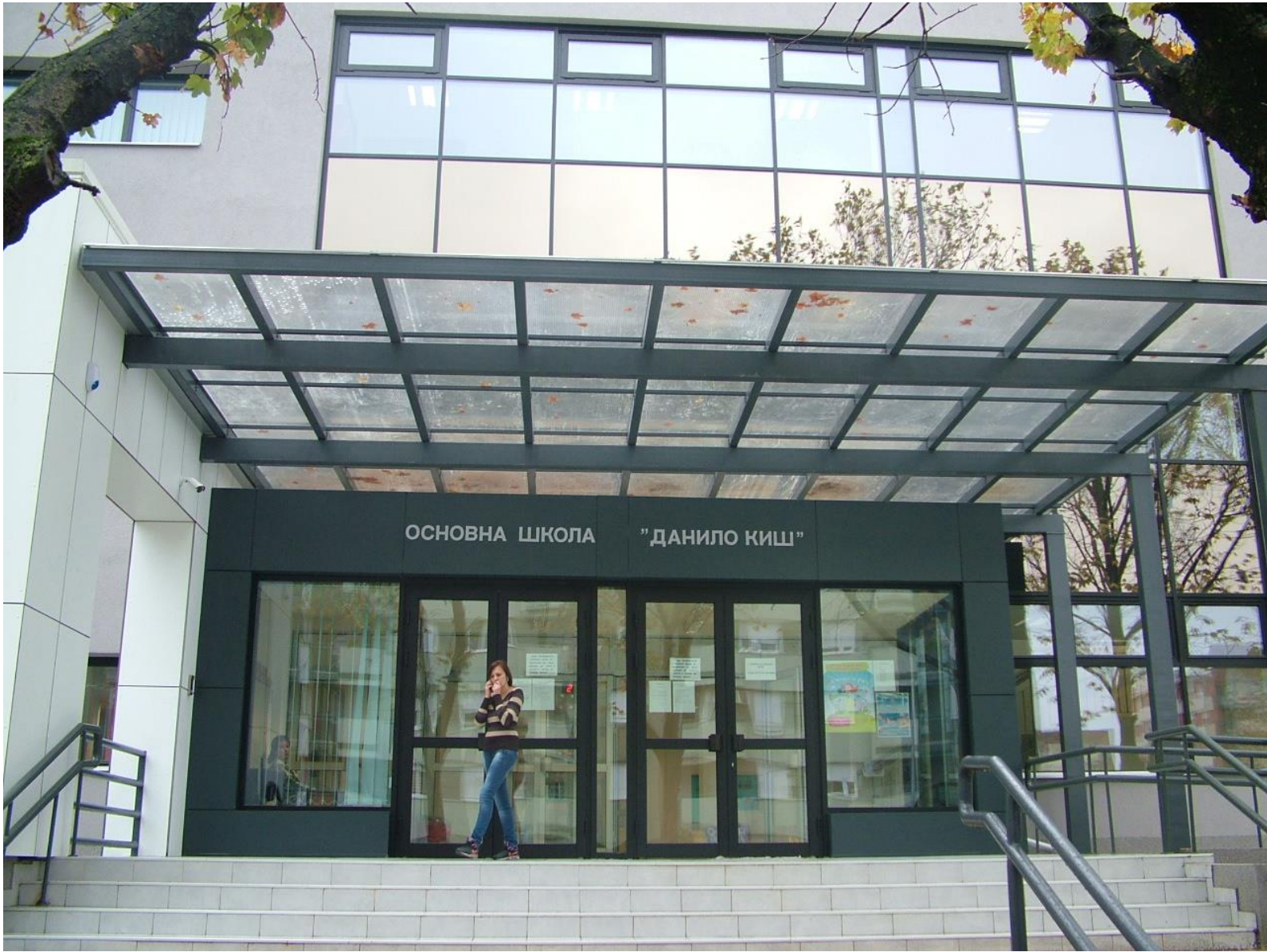


voda



magnezit







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*UČIONICE*

Bolji rezultati kod đaka i profesora pri podešenoj,  
dobroj akustici

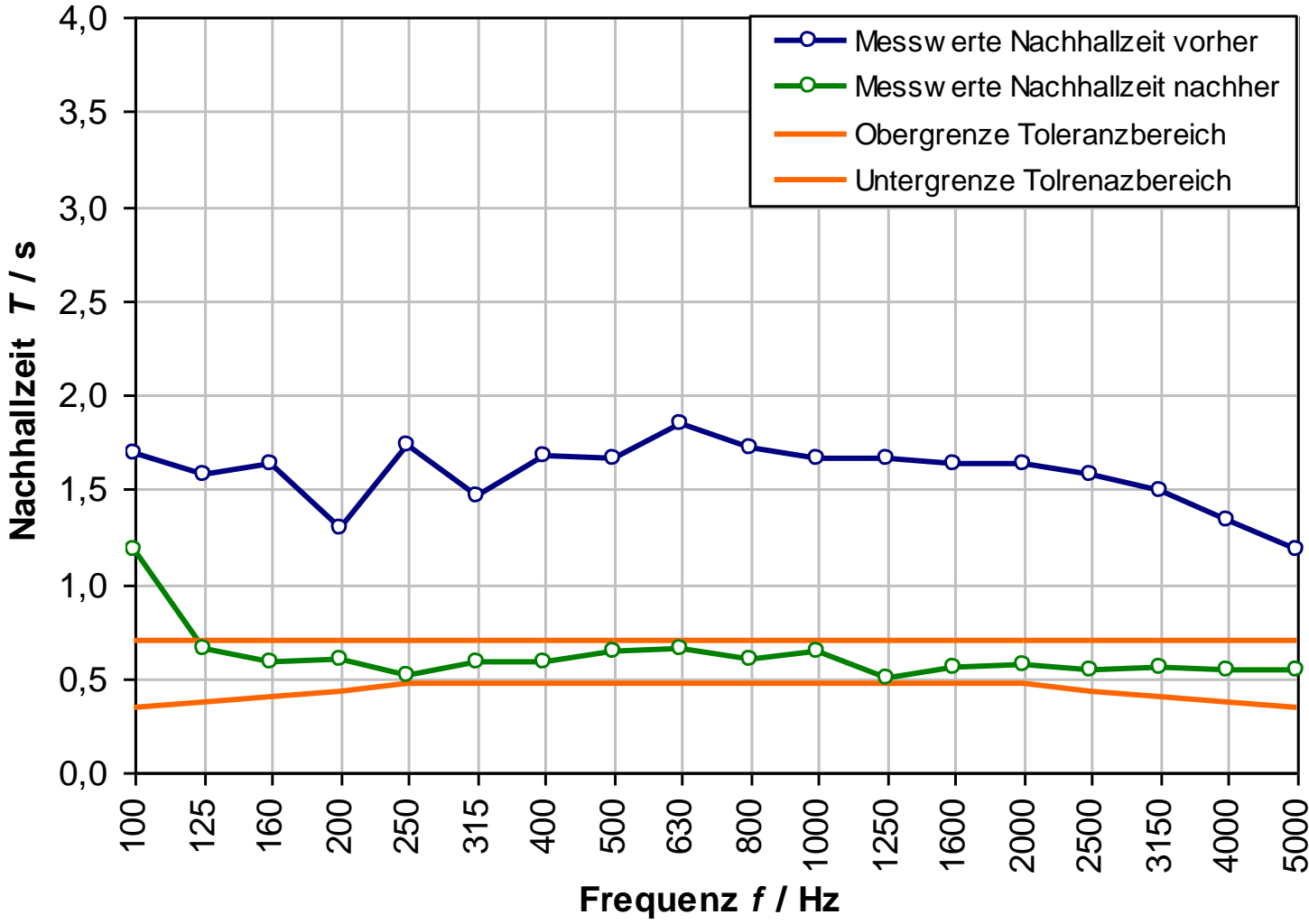
Dovoljno kratki povratni period zvuka,  
u popunjenim učionicama  $T = 0,4 \dots 0,6$  s



...stare učionice,  
bez akustičnog plafona  $T = 1,5 \dots 2,5$  s !

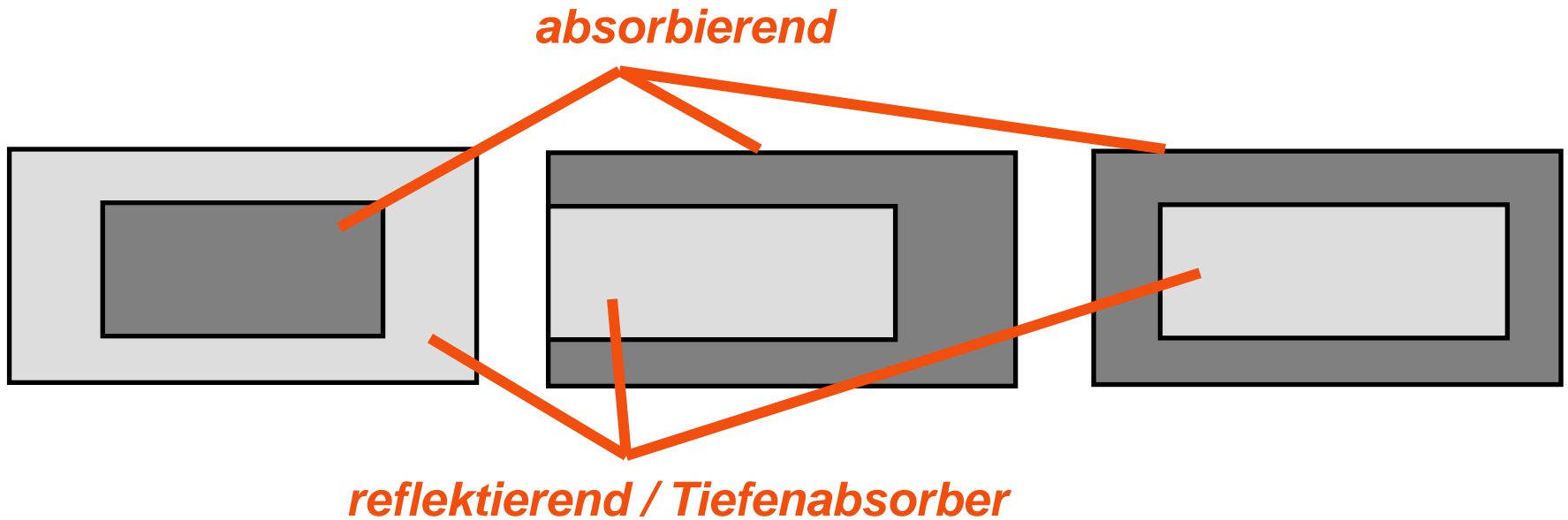


### gemessene Nachhallzeiten unbesetzter Zustand



## Absorbierende und reflektierende Deckenfelder

In Räumen bis etwa 10 m Länge ist die reflektierende Deckenmitte nicht zwingend notwendig





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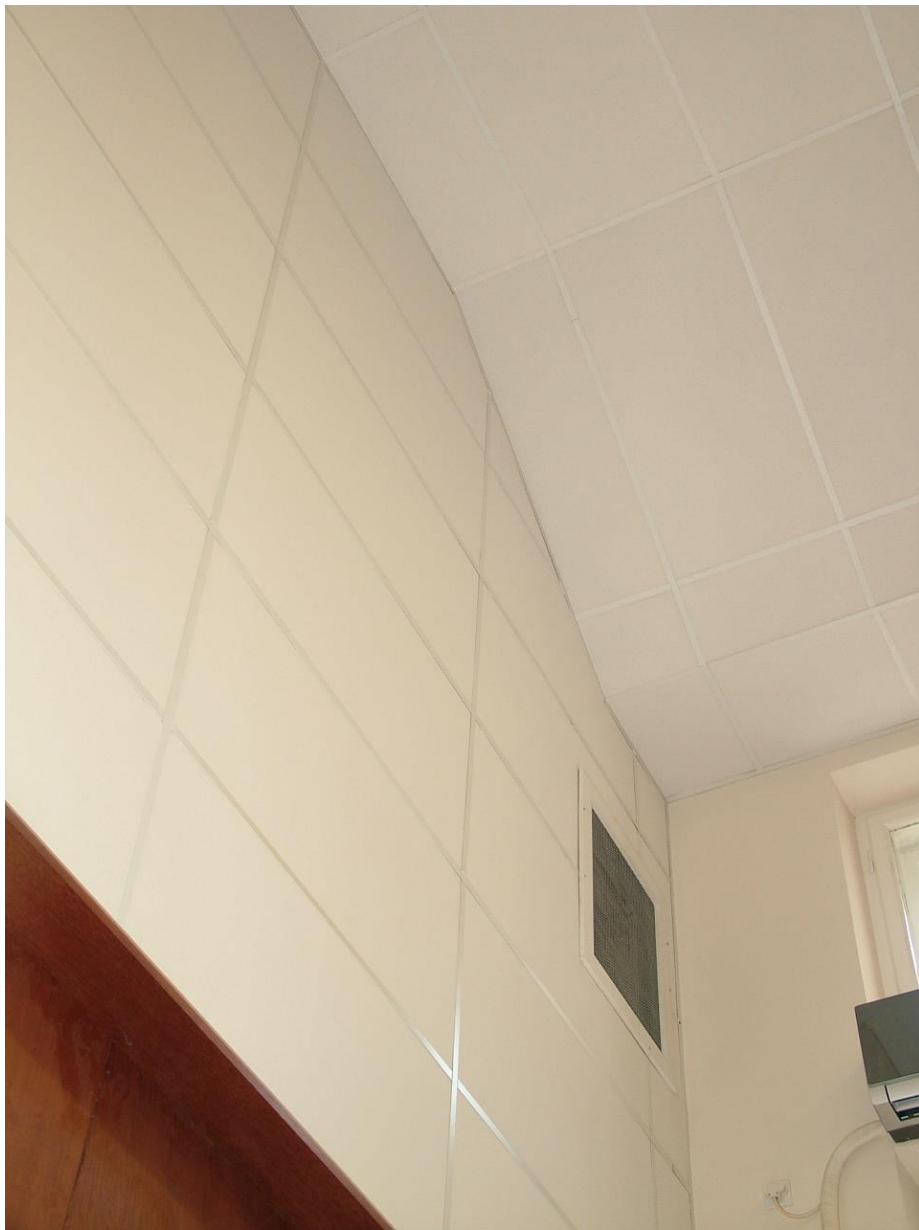
















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# Primer zvučnog zapisa

## **Bez akustičnih mera**

1. Red



3. Red

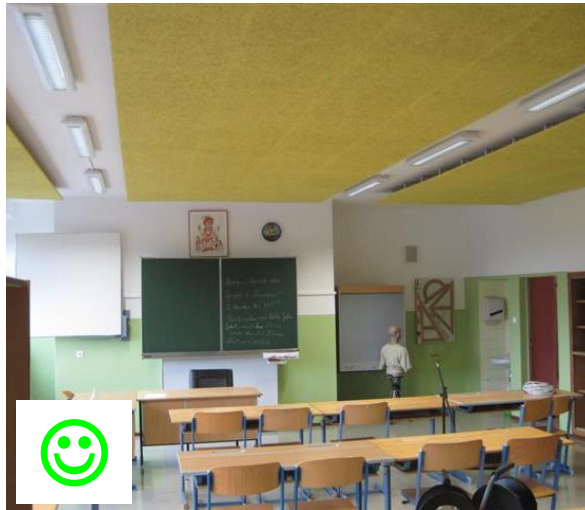


## **Sa merama**

1. Red



3. Red





Poslovni objekat u Beogradu

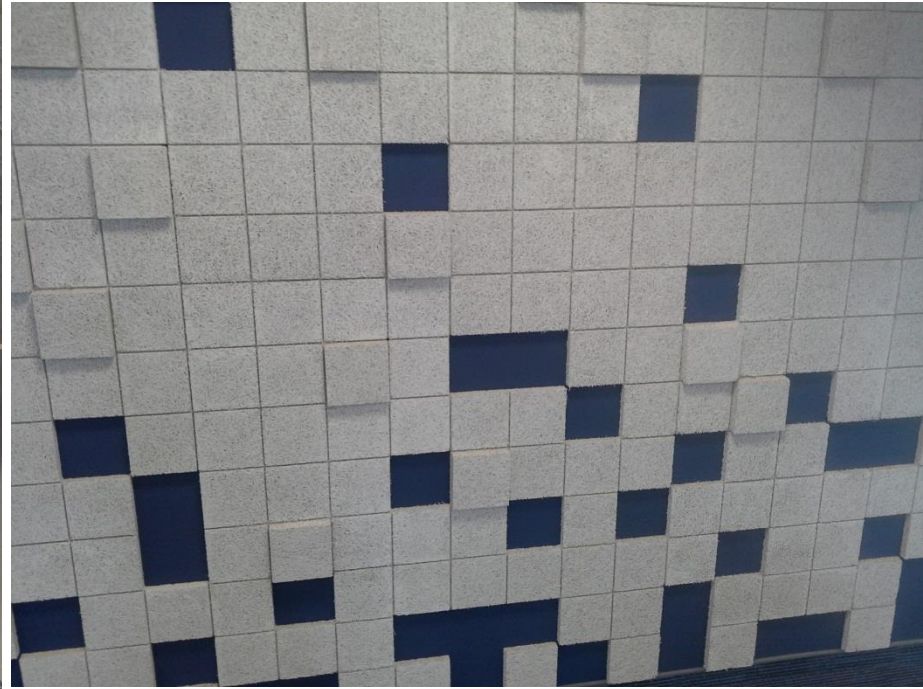


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**DONN**®



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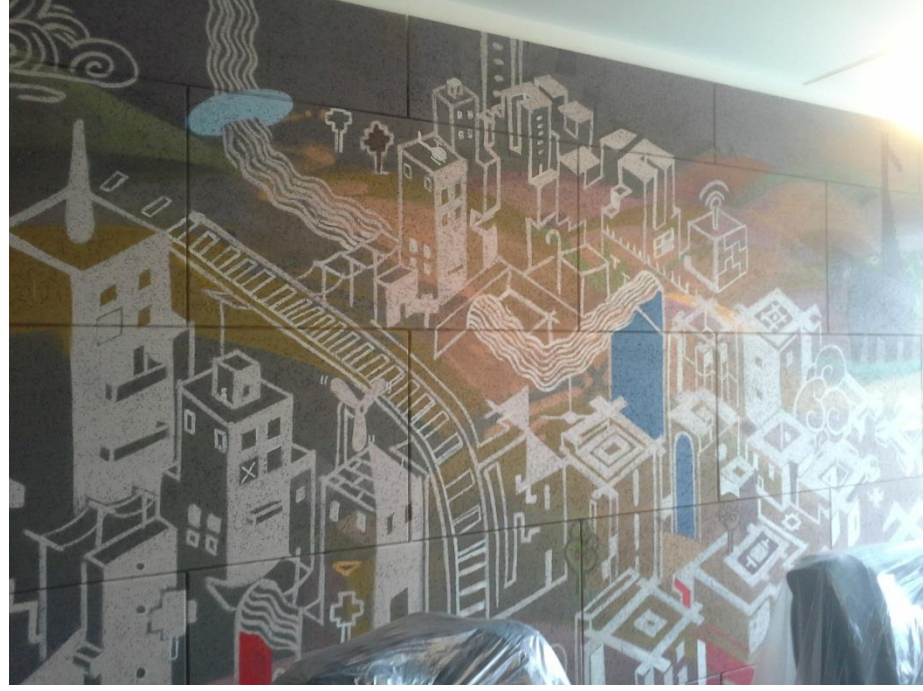
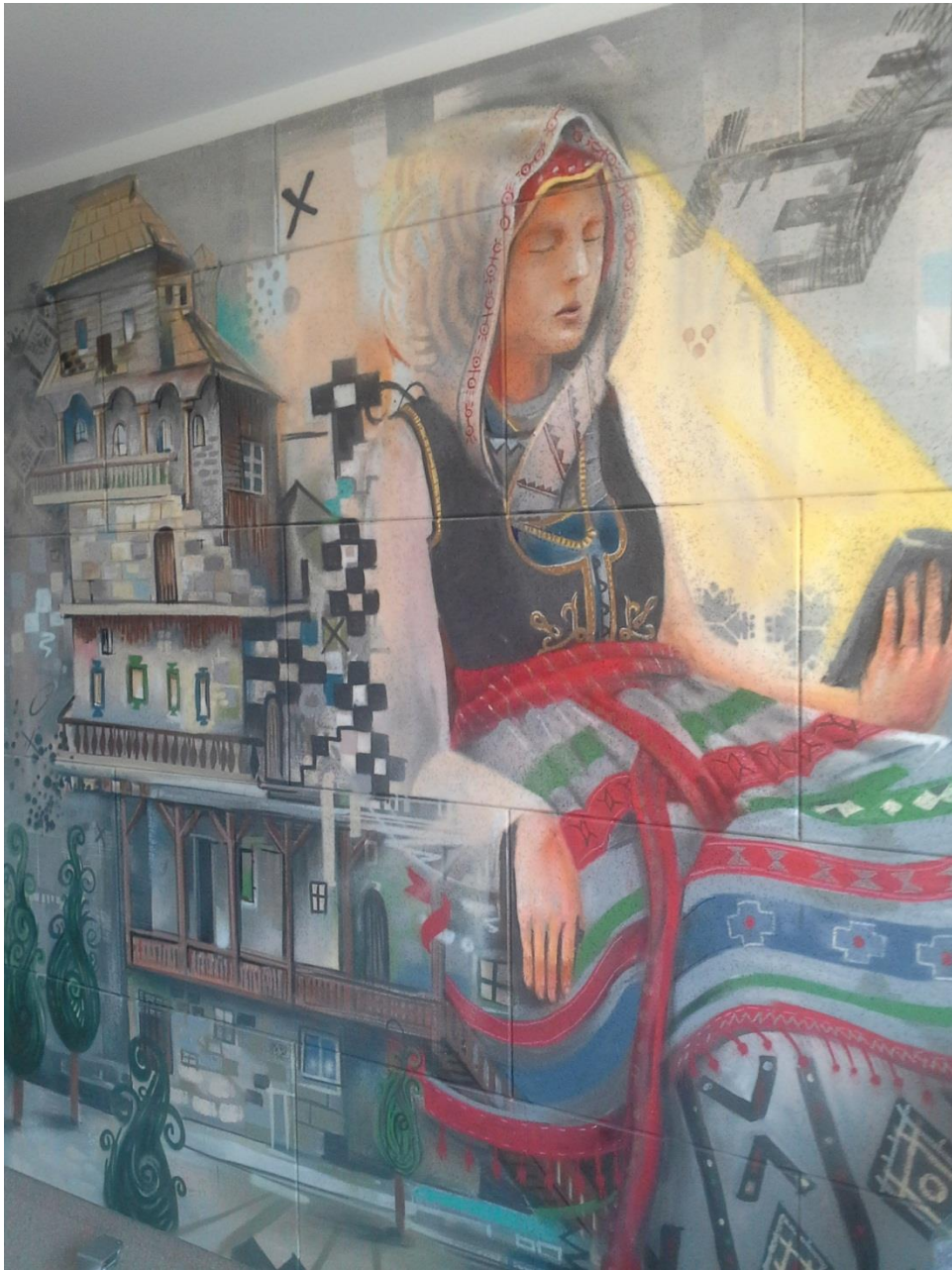


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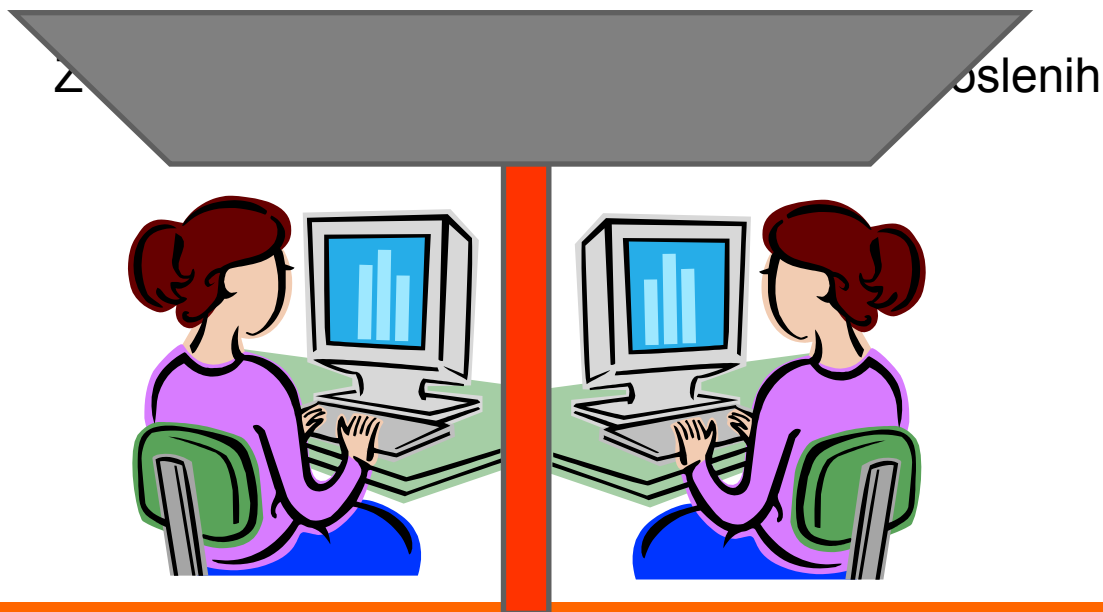
**Heradesign.**  
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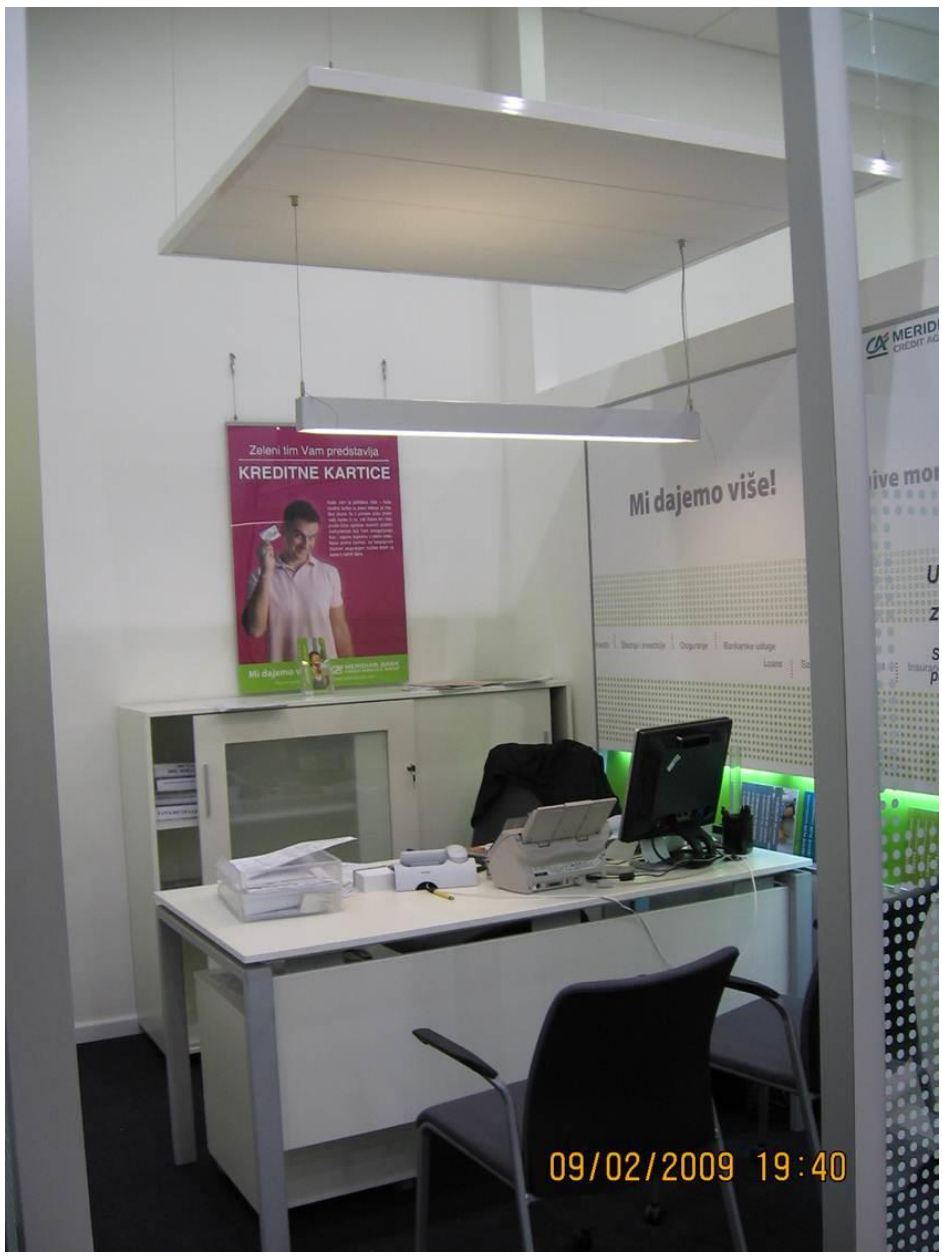
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Standardno rešenje:

Kompletna površina plafona u visokoapsorbirajućim plafonima





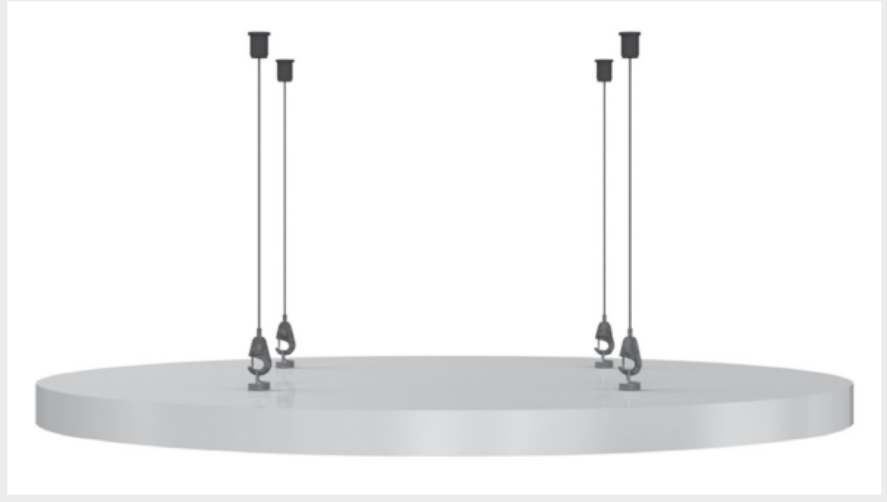
# THERMATEX Sonic Element

## AVAILABLE SURFACE DESIGNS

- all-round fleece covered white

## TECHNICAL PERFORMANCE

Humidity	up to 95% RH
Heat conductivity	$\lambda = 0.040 \text{ W/mK}$ as per EN 12667
Shapes	Rectangles, circles
Formats	max. 1200 x 1200 mm, $\varnothing$ 1200 mm
Thickness / Weight	c. 38 mm (c. 7.5 kg/m <sup>2</sup> )
Colours	white similar to RAL 9010

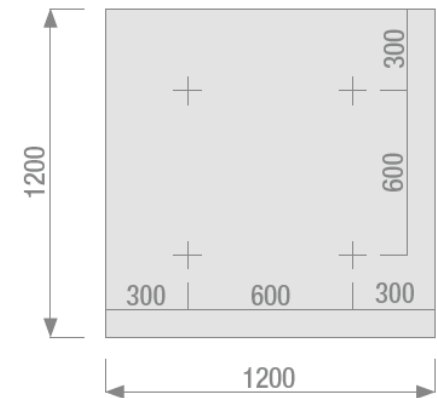
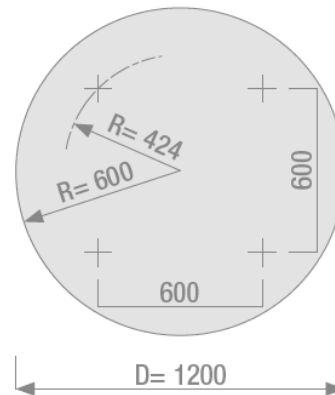
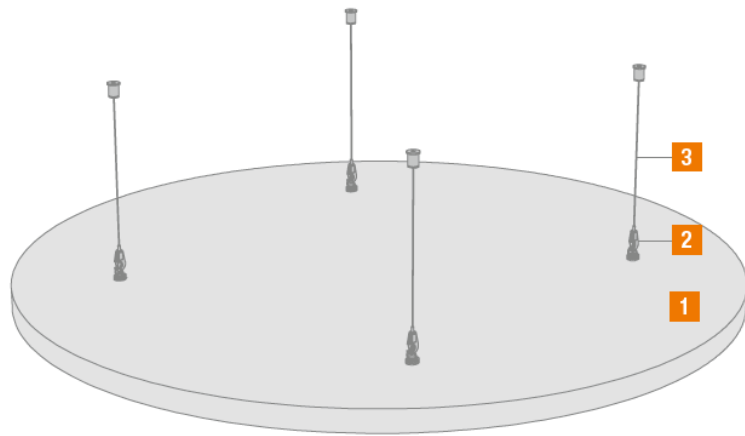


Abhänger:  
Fa. Reutlinger



# THERMATEX Sonic Element

## Plafonska jedra bez rama – kružna i kvadratna



- 1** AMF THERMATEX
- 2** Zugfeder
- 3** Seilabhänger mit Haken, Drahtseil und Deckenbefestiger



# THERMATEX Sonic Element

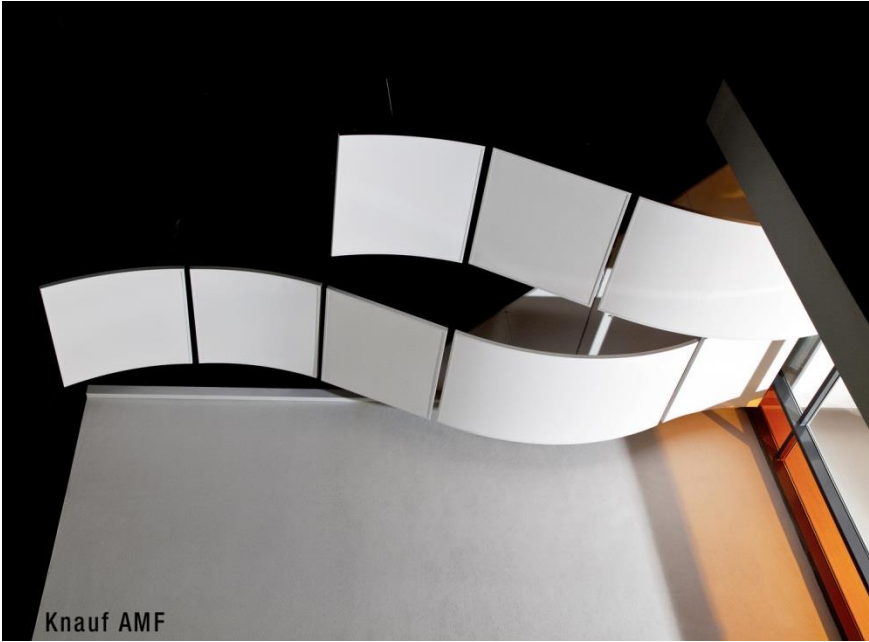
## Plafonska jedra sa ramom - proizvoljnih dimenzija





# THERMATEX Sonic Element

## Plafonska jedra – konveksne i konkavne forme





# THERMATEX Zidni apsorberi





# THERMATEX Zidni apsorberi



# Bioskop Fontana na N.Beogradu





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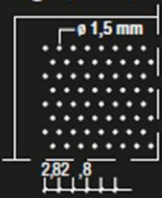
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# THERMATEX Varioline – štampane ploče

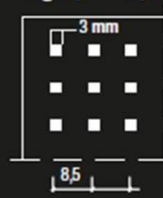
## Motiv - metal

■ **Muster C**  
Rg 1,5 - 2,8D

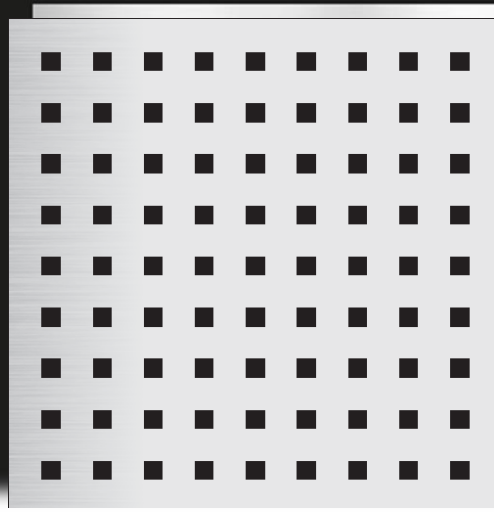
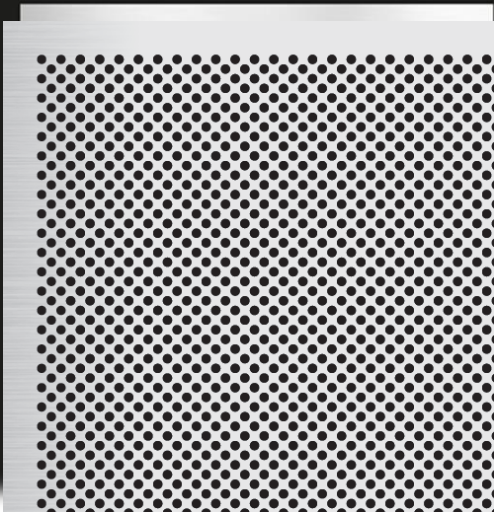


- Punktdurchmesser: 1,5 mm
- Punktabstand: 2,8 mm
- Form: rund
- Punktanordnung: diagonal versetzt

■ **Muster D**  
Qg 3,0 - 8,5

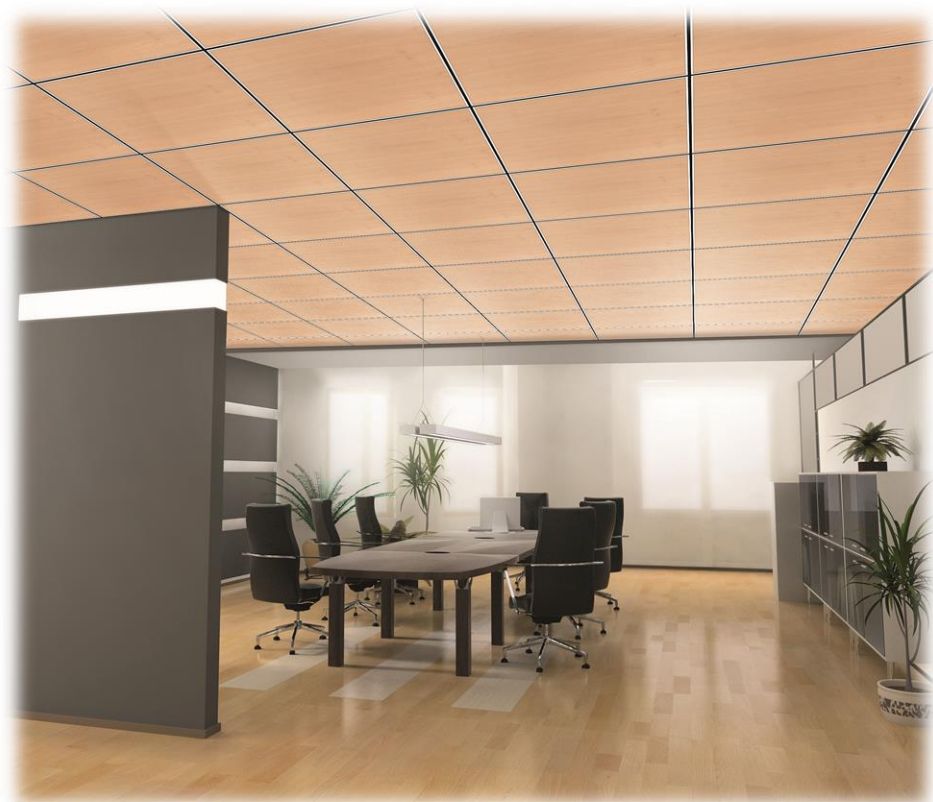


- Abmessungen: 3 x 3 mm
- Punktabstand: 8,5 mm
- Form: quadratisch
- Punktanordnung: gerade





# THERMATEX Varioline – štampane ploče



# THERMATEX Varioline – štampane ploče

## Motiv - drvo



Jasen



Breza



Trešnja (US)



Ariš



Trešnja  
(evropska)



Hrast







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HVALA NA PAŽNJI – Dejan Popović

