



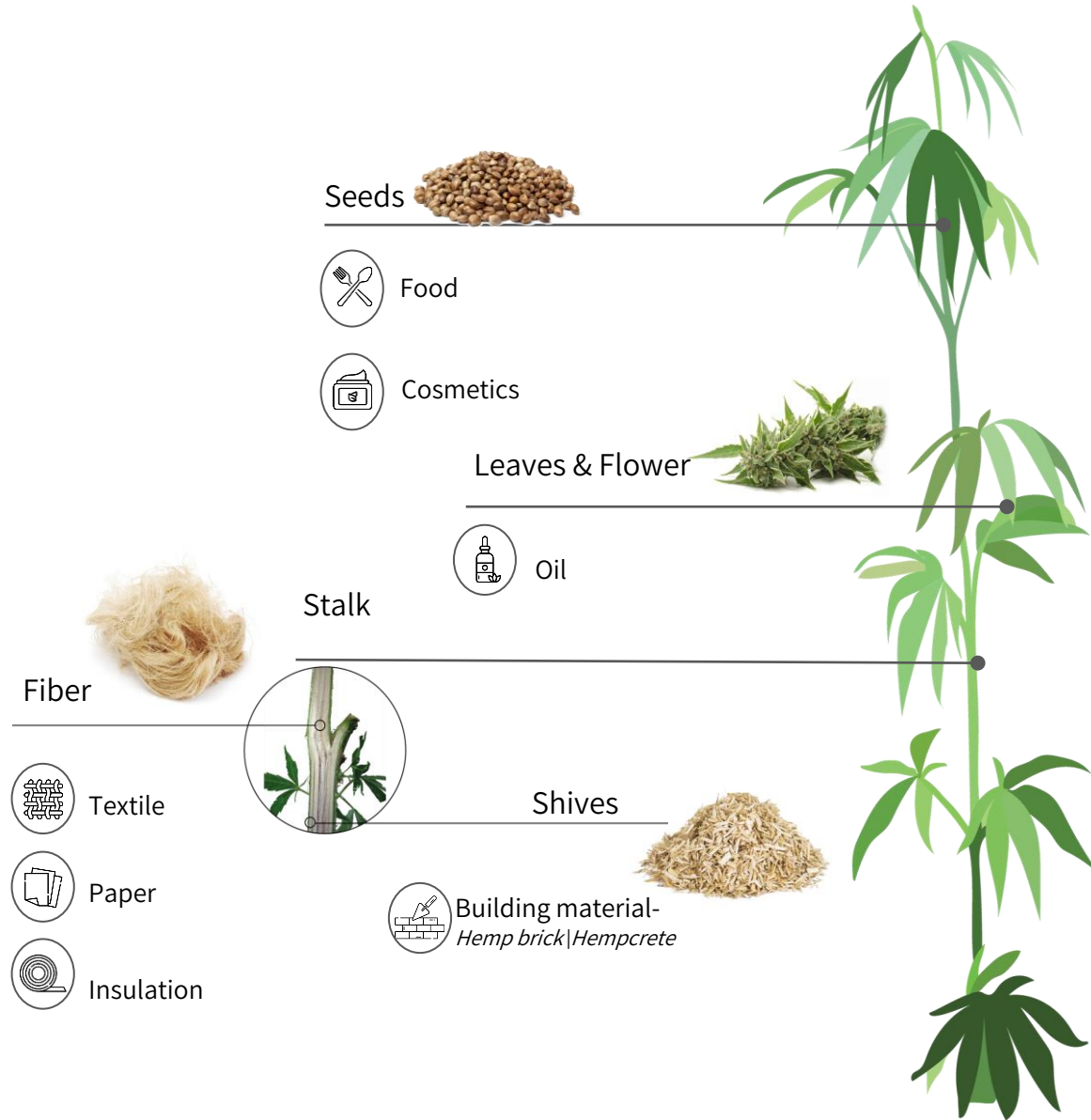
Building material of the future

hemp bricks | | hemp acoustic panel



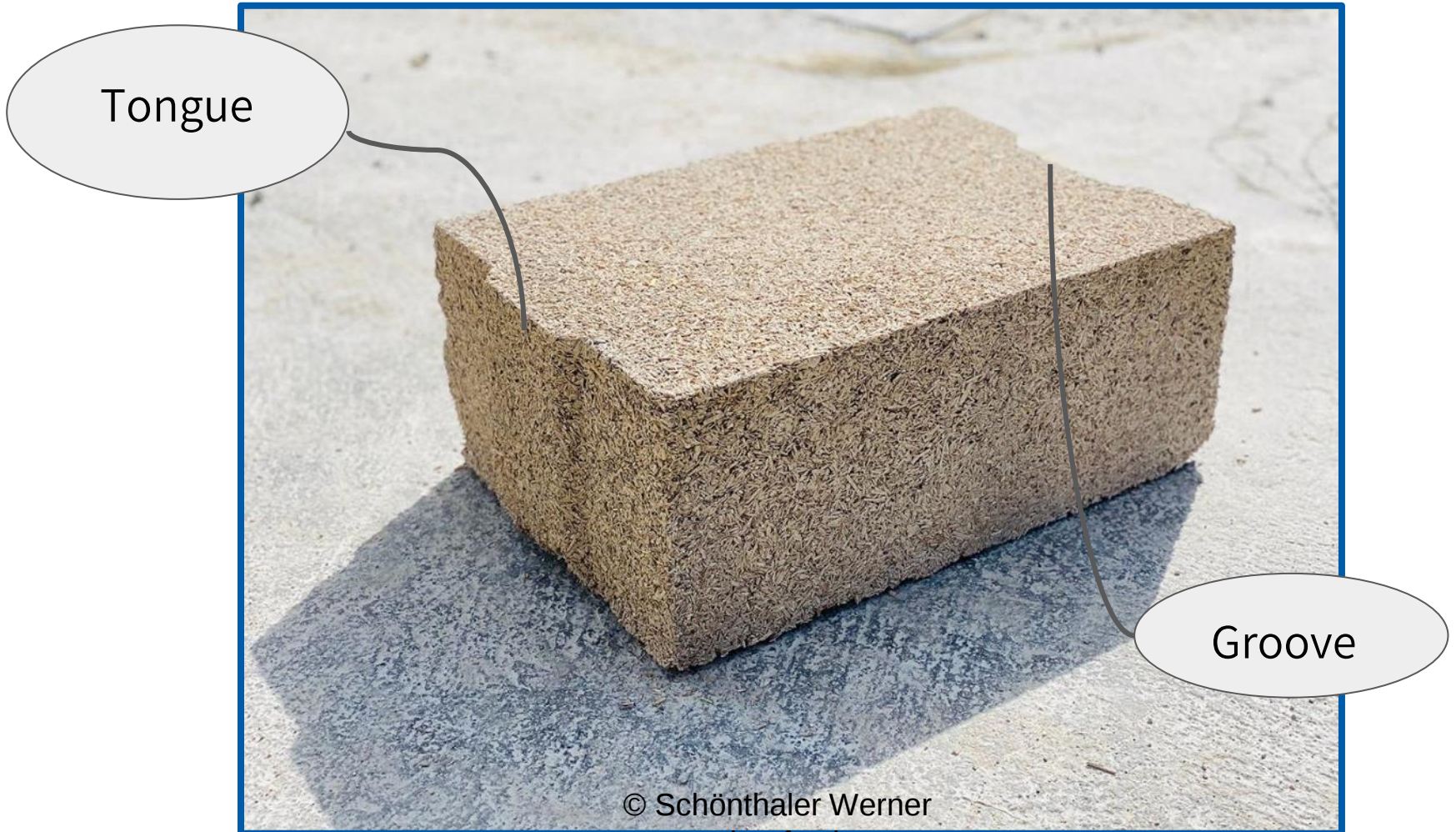
- Industrial hemp grows about 50 times faster than wood
- Industrial hemp grows up to 1800 meters above sea level.
- Approx. 1 hectare of hemp = approx. biomass for 1 100 m² detached house (walls)
- Regenerating the soil
- Grows without any pesticides

The benefits of growing hemp



Hemp bricks

(Sizes: 6 cm, 8 cm, 12 cm, 15 cm, 20 cm, 24 cm, 30 cm, 38 cm)







Hemp



Limestone



Water



Building with Hemp. Why?

- Building without insulation
- Fire resistant
- Resistant to water and insect
- Clean indoor air
- Durable/suitable for generations



- Strong, Light, Breathable
- Energy efficient
- Incredible insulation and heat accumulator
- 100% nature without compromises
- Reusable- Cradle to Cradle

CARBON NEGATIVE- 90%!









Dachsanierung
Dachstuhl
Aufschieben
Holzwerk

AUTOMATEN
INSTALLATIONEN

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Restoration and renovation







Hempcrete without plaster

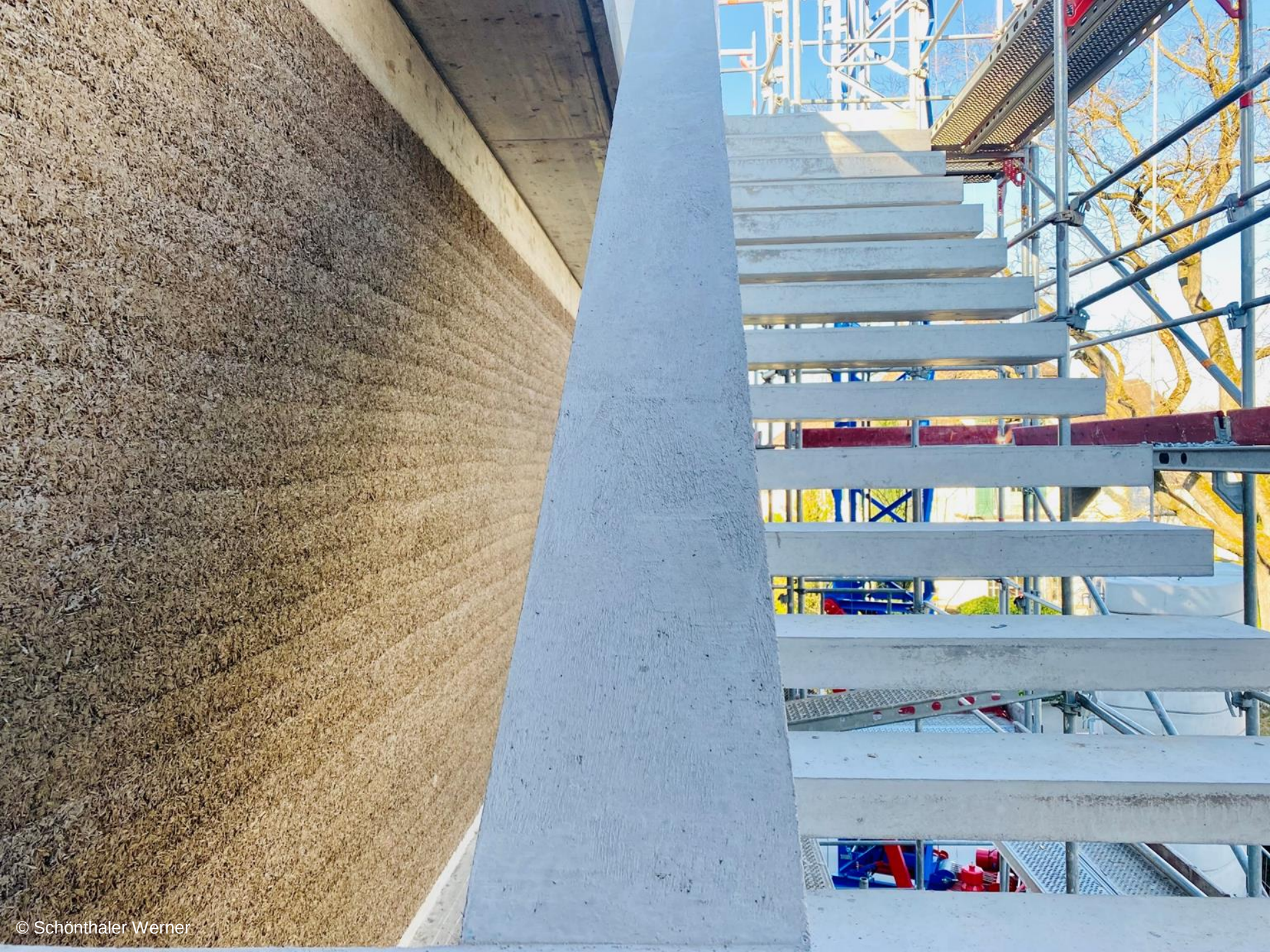




40 cm exposed
Hempcrete







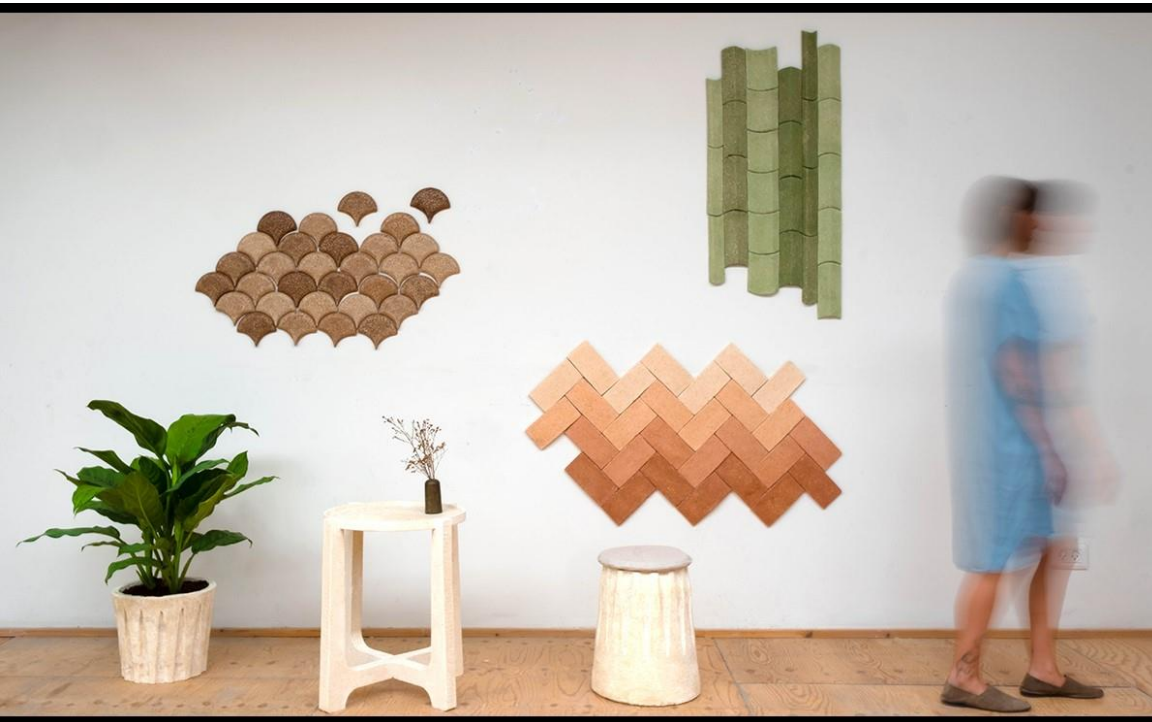
SAPPA

Sustainable Acoustic Solutions

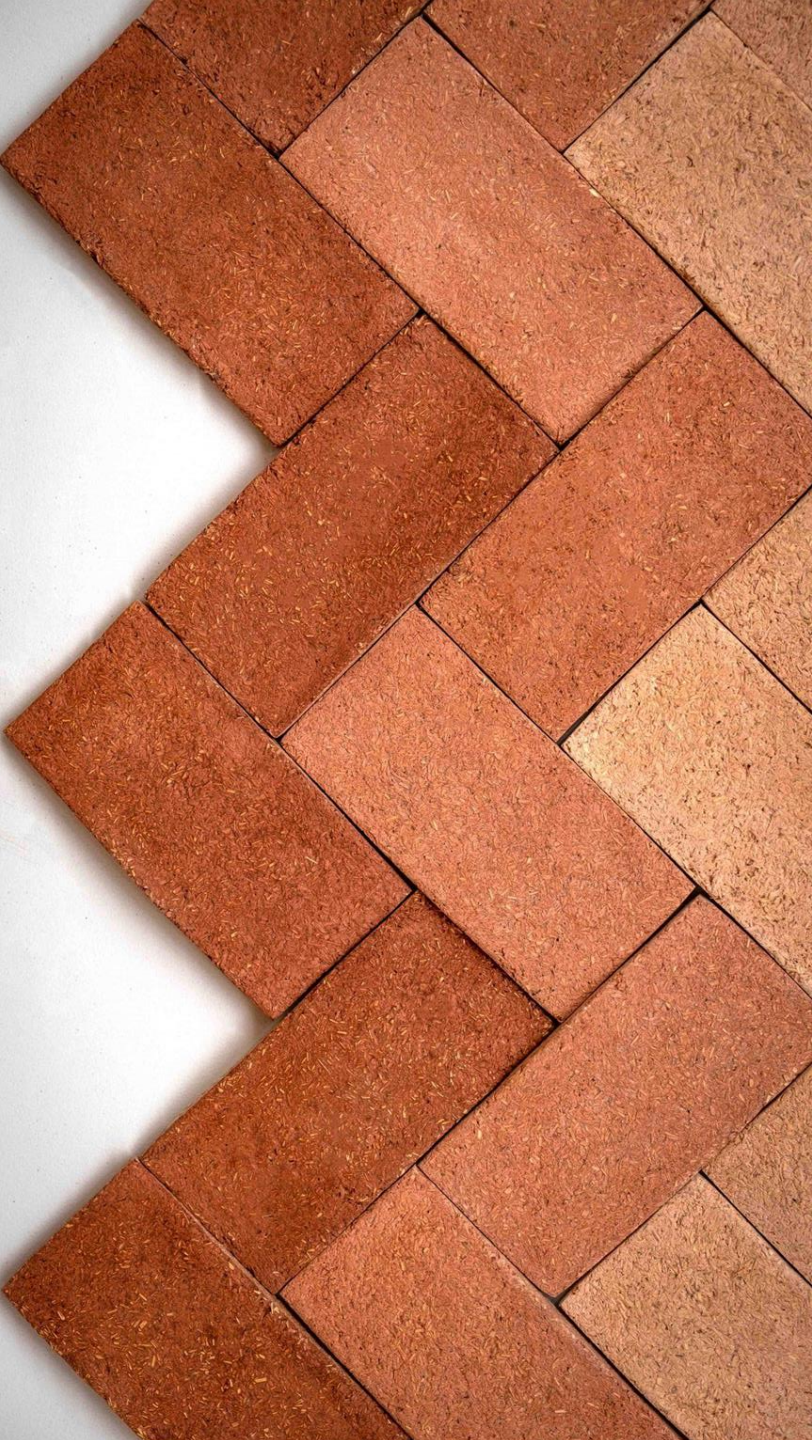




מכון טכנולוגי חולון
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CERTIFICATE OF ACHIEVEMENT

SAPPA BY NOA PAUL

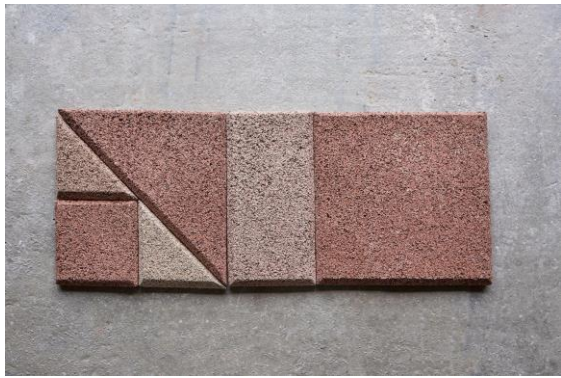
AS THE LEADING VENTURE OF THE NATIONAL
CONTEST OF THE ISRAELI COUNCIL FOR HIGHER EDUCATION!



TALY MALACH BANAIM
HEAD OF FUTURE

JULY 2021





Sappa acoustic panels-

A Game-Changer in the market. WHY?



Sustainable product.

An ecological product made only from natural and consumables materials



Fire resistant

Natural combustion immunity without added chemical



Sound absorption

Optimal sound absorption capabilities

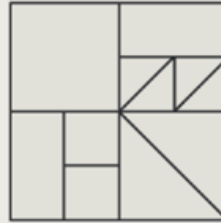
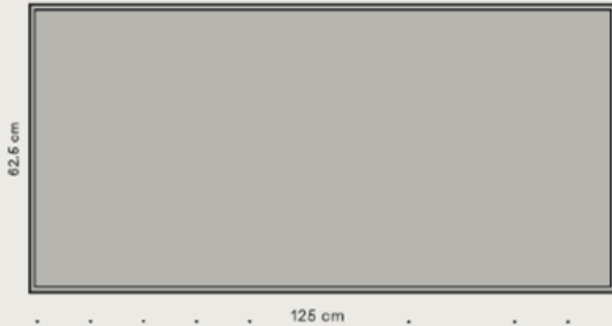


Design options

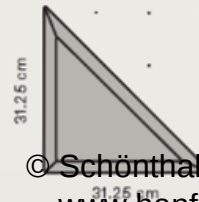
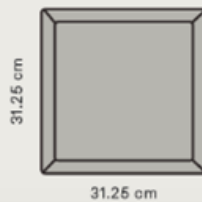
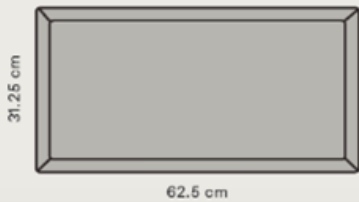
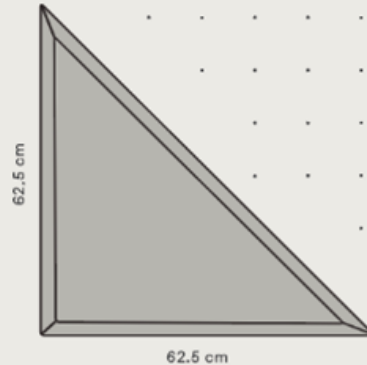
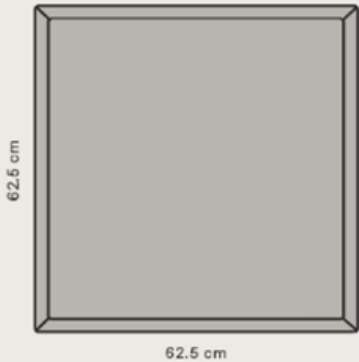
Aesthetic and design options

The panel comes in :

- 5 different shapes
- 10 different colors



*Panel thickness- 3 cm



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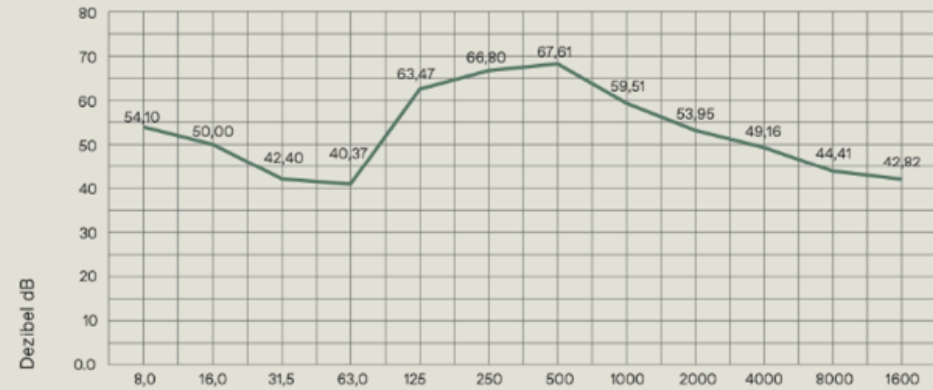


Acoustic Properties

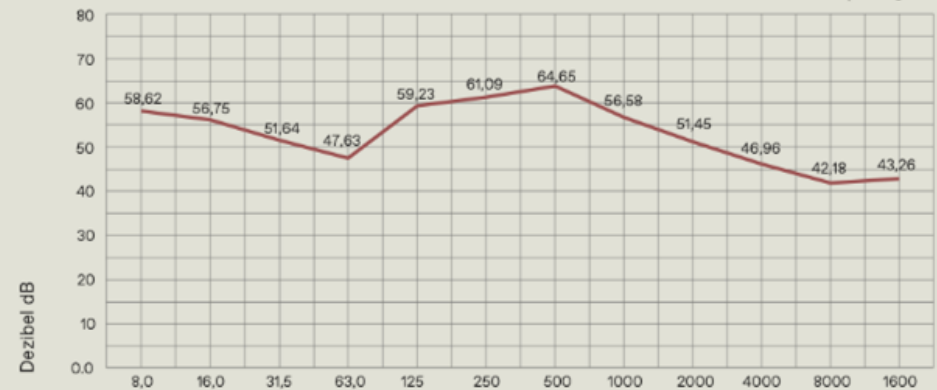
Measurement of sound absorption

Ceiling covered with panel 125x62.5 - Room size: 16 m²

Spectral without insulation

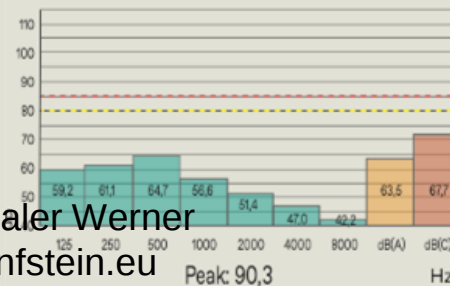


Spectral with insulation

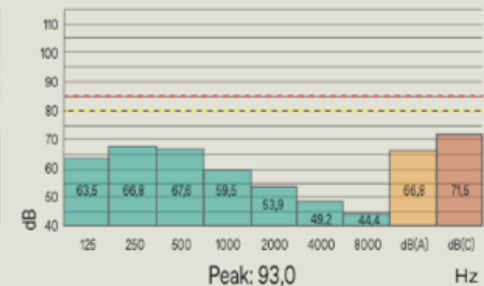


Spectral analysis

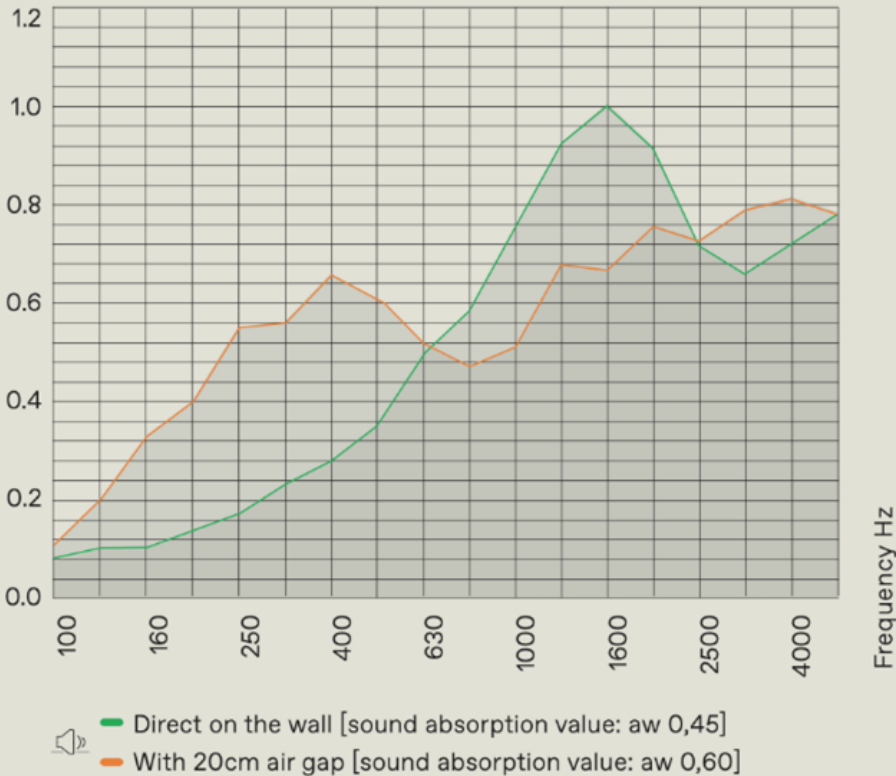
Messurment hour: 00 : 01 : 14,4
Date: 16.12.2022



Messurment hour: 00 : 01 : 30,5
Date: 06.10.2022



Measurement in reverberation room of the sound absorption coefficient "a_s" in accordance with standard UNI EN ISO 354:2003



Technische Daten

Schallabsorptionswert direkt an der Wand (aw)	0,45
Schallabsorptionswert 20 cm Abstand (aw)	0,60
Brandverhalten EN 13501-1	B-s1.D0
Spez. Gewicht / m ² Rechteckig groß	13,5 kg
Spez. Gewicht / m ² Andere Formen	12,3 kg
Spez. Gewicht / m ³ Rechteckig groß	450 kg
Spez. Gewicht / m ³ Andere Formen	410 kg
Druckfestigkeit Mpa	0,35
Wasseraufnahmekoeffizient trocken	4,3















„Innovationspreis für Nachhaltigkeit 2023 der Stiftung Südtiroler Sparkasse und der Südtiroler Sparkasse“

HEMPIRE STATE

unibz



"THE FUTURE WILL BE GREEN,
OR WE WON'T BE ANYMORE."

**Thank you
very much!**

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Bausteinwerk und
Baustoffhandel seit 1964.

Manufatti in cemento e
Commercio materiali edili dal 1964.

Ein Unternehmen aus

SÜDTIROL

