

APPLICATION BROCHURE

REGUPOL SOUND AND DRAIN 22

Impact sound insulation
for terraces and
roof areas

Munich - NEO

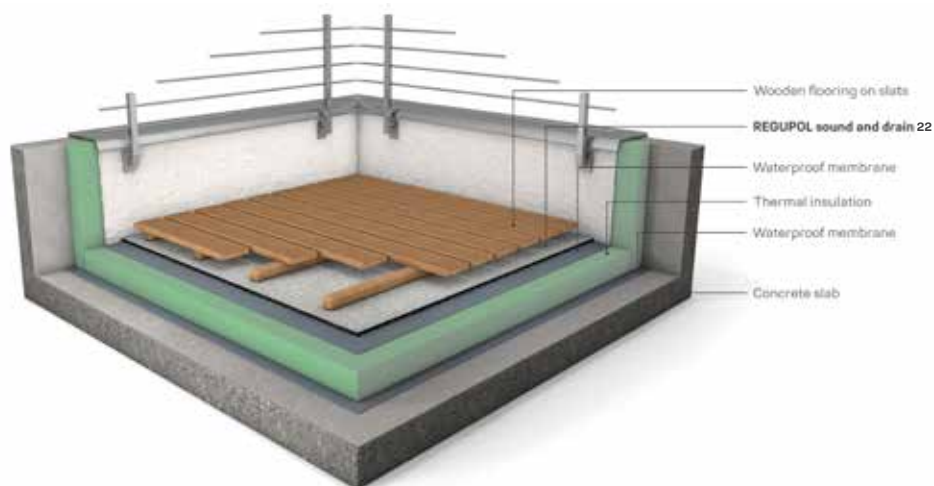


IMPACT SOUND INSULATION FOR OUTDOOR AREAS

Roof terraces are increasingly becoming popular meeting places. Cleverly designed and soundproofed, they are attractive for tenants, hotels, restaurants and other modern concepts.

A sky lounge with a starry sky or an XXL BBQ in a fashionable restaurant — hotel rooftops and urban rooftop gardens are all the rage around the world. Adequate noise protection is important for the planning and implementation of these meeting places so that their use does not interfere with life or work.

REGUPOL sound and drain 22 has been developed for this application.





REGUPOL

SOUND AND DRAIN 22

REGUPOL sound and drain 22 impact sound insulation, which has been awarded the European CE mark and tested in accordance with DIN EN ISO standards, offers you tested protection of the waterproofing and drainage function in various balcony and terrace constructions.

REGUPOL sound and drain 22 is a versatile, 15 mm thick impact sound insulation membrane with a profiled underside and low dynamic stiffness of $s' \leq 21 \text{ MN/m}^3$.

Depending on the construction, the impact sound reduction is between $\Delta L_w \geq 28 \text{ dB}$ and $\Delta L_w \geq 37 \text{ dB}$.

REGUPOL sound and drain 22 is impact sound insulation designed for outdoor areas and subject to the internal and external surveillance plans of European Technical Assessment 18/0239.



Vienna - Aron Mencer Campus



Vienna - Seestadt Aspern Campus



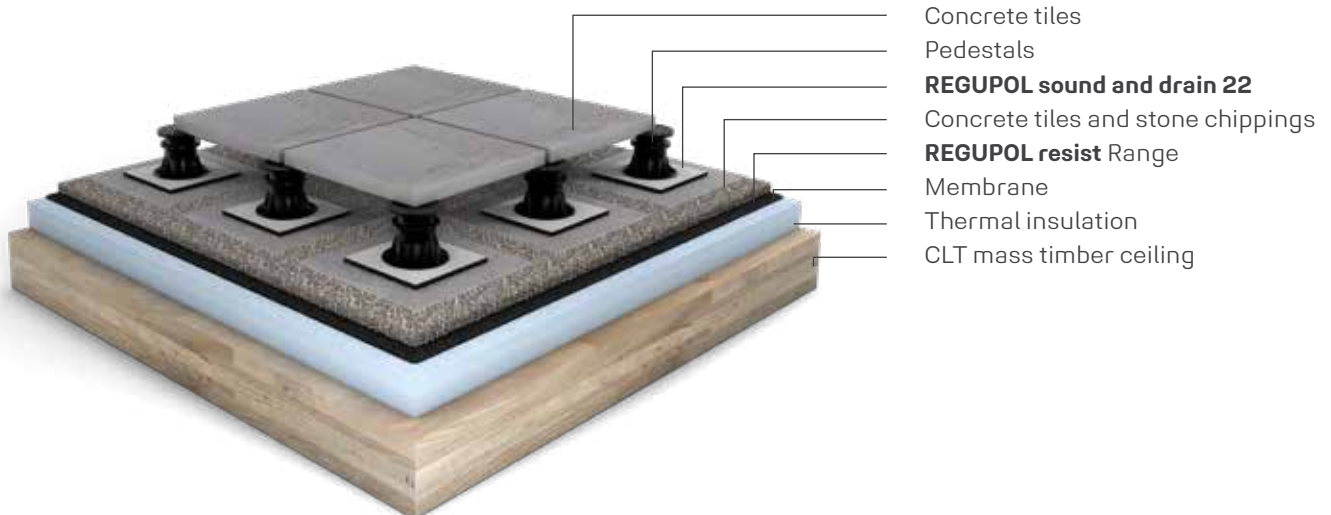
REGUPOL SOUND AND DRAIN 22 IN SOLID TIMBER CONSTRUCTION

Solid timber construction requires a coordinated interplay of mass and spring above the solid timber element.

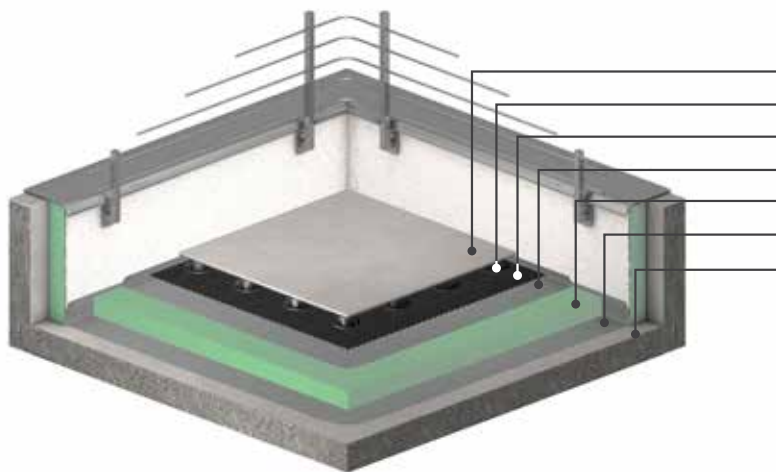
In order to meet the highest possible sound insulation requirements, a structure with additional mass is required in the form of heavy paving slabs laid on **REGUPOL sound and drain 22**. An additional, mass-increasing layer is placed under the impact sound insulation.

In a test set-up, acoustically measured at the Austrian Forest Products Research Society, an excellent result was measured for low frequencies:

$$L_{n,w} (C_{l,50-2500}) = 41 (+3) \text{ dB}$$



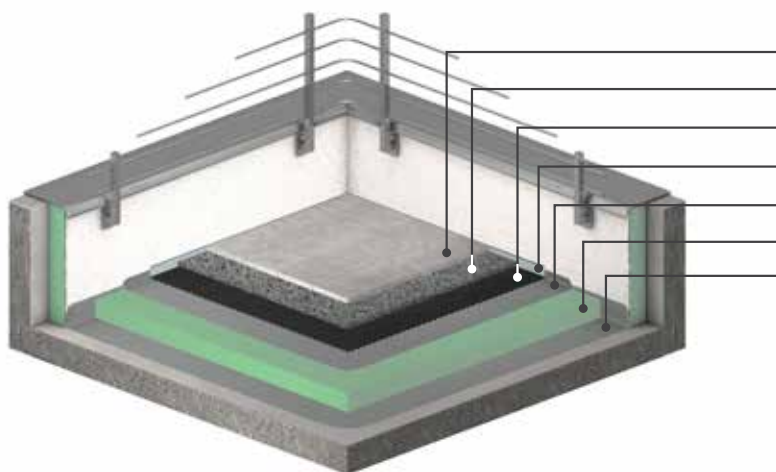
EXAMPLE SETUPS FOR REGUPOL SOUND AND DRAIN 22



Concrete tiles on pedestals

Concrete tiles
Pedestals
REGUPOL sound and drain 22
Membrane
Thermal insulation
Membrane
Concrete surface

$$\Delta L_w \geq 37 \text{ dB}$$

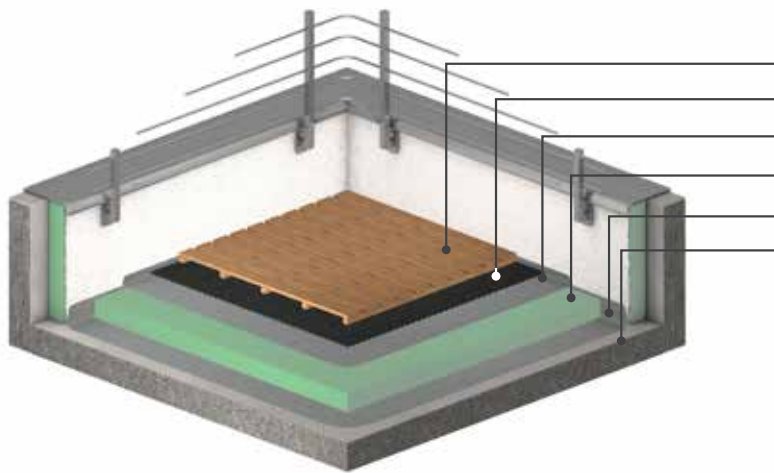


Concrete tiles on stone chippings

Concrete tiles
Stone chippings 40 mm (2/8)
REGUPOL sound and drain 22
Perimeter isolation strip
Membrane
Thermal insulation
Membrane

$$\Delta L_w \geq 35 \text{ dB}$$

Detailed technical data, declarations of performance and tender texts can be found at www.regupol.de.



Wooden decking boards on battens

Wooden decking boards on battens

REGUPOL sound and drain 22

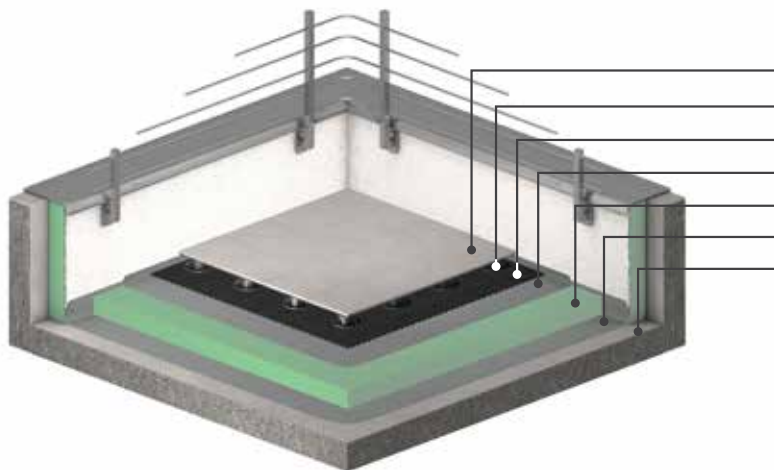
Membrane

Thermal insulation

Membrane

Concrete slab

$$\Delta L_w \geq 30 \text{ dB}$$



Ceramic tiles on pedestals

Ceramic tiles

Pedestals

REGUPOL sound and drain 22

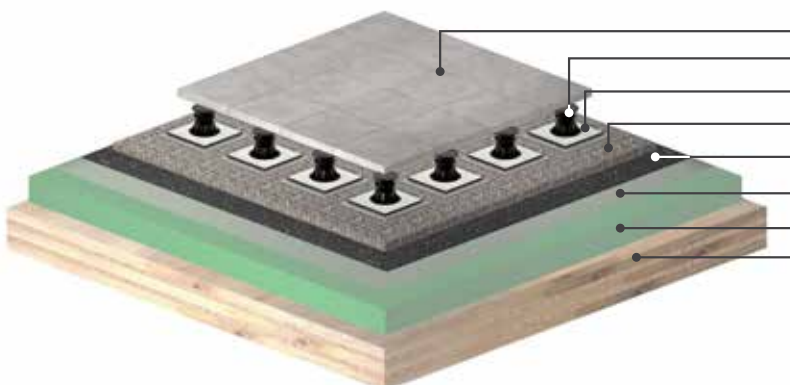
Membrane

Thermal insulation

Membrane

Concrete slab

$$\Delta L_w \geq 35 \text{ dB}$$



Concrete tiles on pedestals and mass timber ceiling

Concrete tiles

Pedestals

REGUPOL sound and drain 22

Concrete tiles and stone chippings

REGUPOL resist Range

Membrane

Thermal insulation

CLT mass timber ceiling

$$L_{n,w} (C_{1,50-2500}) = 41 (+3) \text{ dB}$$

PRODUCT AND INSTALLATION INSTRUCTIONS FOR **REGUPOL SOUND AND DRAIN 22**



The profiling on the underside is used for drainage and impact sound insulation.



The geotextile on the top is a separating layer and prevents the entry of dirt particles.



Standard delivery format: length 10,000 mm,
width 1,250 mm, thickness 15 mm



Quick installation due to the roll format and lateral over-
lap of the geotextile.



HOW DO WE OPERATE MORE SUSTAINABLY? TOGETHER.

The history of our company began with its foundation in 1954, when the then newly developed and expensive material PU foam was used in furniture production. This manufacturing process produced considerable quantities of material offcuts that could be processed into composite foam—and a new business idea was born.

REGUPOL is therefore a pioneer of the circular economy and has the basic idea of recycling in its DNA. Our company has grown steadily ever since. New products were developed, new subsidiaries were established, for example in Australia and America, and new production sites were set up.

REGUPOL is still a family business today. The third and fourth generations are currently managing the company. Since the company's inception, we have employed creative, dedicated and highly motivated people who use their expertise to provide the right solutions for our customers. We are proud of that!

How sustainable are REGUPOL products?

The circular economy works when products based on it can compete directly with new products—and we have been proving this since 1954. **REGUPOL** products are generally made from 75–95% recycled raw materials.

What standards and legal requirements does REGUPOL meet?

The company has been DIN EN ISO 14001 certified since 1997 and will continue to maintain this certification. We are also DIN EN ISO 45001, DIN EN ISO 9001 and DIN EN ISO 50001 certified.

In addition, our products and mats comply with the new § 45 II No. 2 of the German Circular Economy Act. We hope that the clearly formulated regulation will help to make government action more sustainable. By recycling our packaging materials at Interseroh Zero Waste Solutions, more than 34,000 tons of greenhouse gases can be saved.

90,000

tonnes of recycled elastomers per year

95 %

maximum recycling rate

60 %

export ratio

REGUPOL's carbon footprint

Our **carbon footprint** is calculated regularly. You can find the current footprint at: www.regupol.de



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