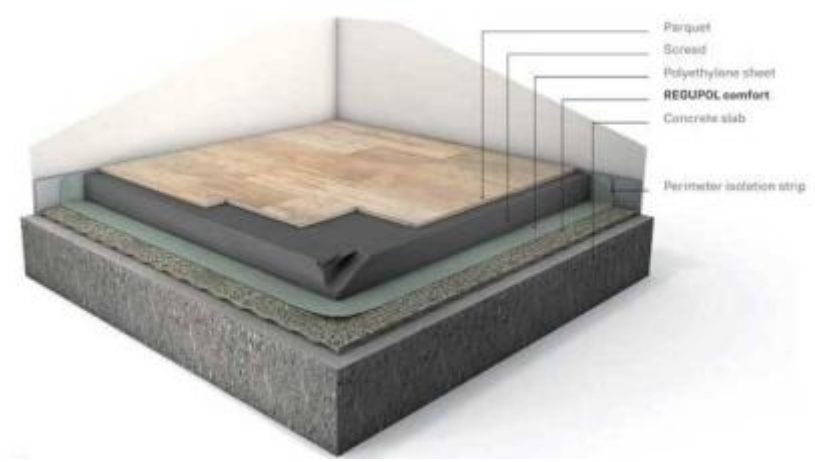


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FLOOR SOUND INSULATION: REGUPOL COMFORT 5 AND EDILTECO SOLUTIONS FOR INNOVATIVE CONSTRUCTION

Sound insulation is essential for comfort at home and at work. Combined with Edilteco subfloors, **Regupol Comfort 5** is an innovative solution that improves impact sound insulation and the quality of indoor spaces, in compliance with regulatory requirements.

Emanuele Stabellini – Marketing Manager, Edilteco S.p.A.

Acoustic comfort in buildings: focus on the floor system

In today's construction, **acoustic comfort** is a design variable of primary importance, in both residential and commercial buildings.

The Italian standard **UNI 11944** (Screeds for floors – Design criteria, installation and verification methods) has introduced precise guidance for the design of floor systems, highlighting the role of sound insulation and the need to use materials that ensure high performance over time. In this context, **Regupol Comfort 5**, combined with **Edilteco** technologies, is an advanced technical solution that meets regulatory requirements, avoiding critical issues such as drying shrinkage and ensuring dimensional stability and durability.

Standards and technological innovation
The **UNI 11944** standard focuses in particular on the characteristics required of floating screeds and subfloors, which are decisive for **impact and airborne sound insulation**. Specifically, **clause 5.2** states that the **subfloor** must have dimensional stability and mechanical strength and must be **free from delayed drying shrinkage**.

Edilteco products, designed to meet strict performance standards, stand out for their ability to keep their level unchanged over time, an essential parameter for ensuring **stable and lasting acoustic and structural performance**, as also stressed by Matteo Borghi, an engineer at ANIT (the Italian association for thermal and acoustic insulation), in an article on UNI 11944.

Regupol Comfort 5: what it is and its technical characteristics

Regupol Comfort 5 is an impact sound insulation underlay in panels for use under screeds. Made from polyurethane-bonded (PUR) elastomers, it stands out for a series of **characteristics** that make it an ideal solution for acoustic comfort in buildings:

- **impact noise reduction** (**?Lw ? 20 dB**): proven performance that helps to significantly improve the acoustic well-being of rooms;
- **reduced thickness (5 mm)**: a particularly useful feature when the height available in the floor system is limited;
- **low compressibility** (c value): lower than that of traditional mineral wools, it allows traffic loads of up to 500 kg/m^2 to be supported while keeping the acoustic performance unchanged;
- **EPD** (Environmental Product Declaration): the material meets sustainability requirements, with embodied carbon of 0.91 kg CO2e/m^2 (for production stages A1–A3), confirming its low environmental impact.

Combining Regupol Comfort 5 with **Edilteco subfloors**, which are free from drying shrinkage, provides a **complete technical solution** that not only improves acoustic comfort but also ensures dimensional stability and mechanical strength in the long term.

Find out more about Regupol Comfort 5

Regupol Comfort 5, impact sound insulation underlay in panels

Regupol Comfort 5, impact sound insulation underlay in panels

Applications and benefits in the construction sector

Solutions combining **Regupol Comfort 5** and **Edilteco subfloors** can be used in a wide range of projects, from **new construction** to **renovation**, and are particularly effective in residential and commercial buildings. Combining materials that strictly meet the requirements of the Italian standard UNI 11944 makes it possible to satisfy the most demanding design needs, solving critical issues related to acoustic comfort, structural stability and sustainability.

The use of advanced materials such as **Regupol Comfort 5** and of technologically advanced **Edilteco** subfloors represents significant progress in building design. These solutions make it possible to create buildings that comply with current regulations, reduce environmental impact and improve comfort at home and at work, offering designers and builders a concrete opportunity to raise quality and sustainability standards.

Find out more about Edilteco subfloors