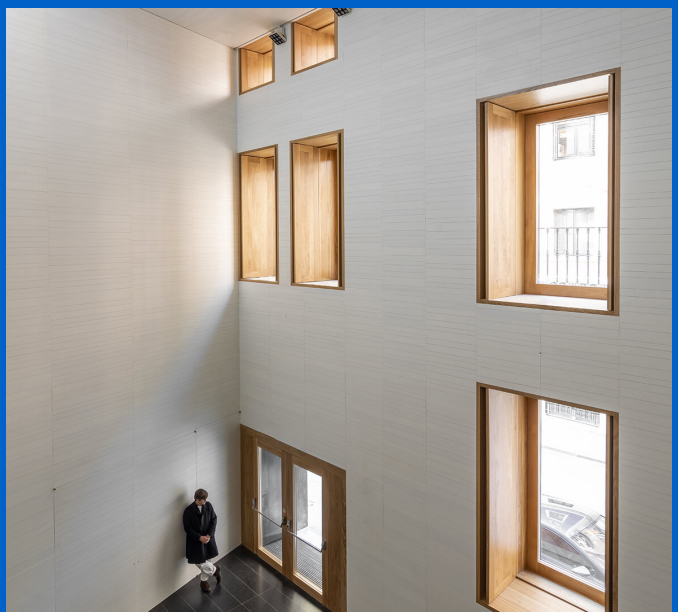
References

Edificio de oficias en calle Tutor



Uponor involvement

- Invisible climatization with radiant heating/cooling
- Uponor Klett wet underfloor heating system
- Integrated into the Matrics technical floor of systems made by Subway company

Uponor's technical office is involved and efficiently supports all raised floor Matrics system projects that require air conditioning, even developing special and specific solutions that may be needed.

Invisible air conditioning integrated into a technical raised floor in a renovated office building

The building located at Calle Tutor 16 (Madrid), owned by Arquia Inmuebles, has undergone a complete renovation and modernization, being partially demolished with the façade stabilized. A project designed by Tuñón y Albornoz Arquitectos and executed by SANJOSE Constructora, where the integration of Uponor's Invisible Air Conditioning in the Matrics raised technical floor developed by company Subway Systems.

“The goal was to finish the offices with a neat large polished black granite flooring, but I also needed to upgrade and install underfloor heating. With its flexibility and technical capacity, the raised floor Matrics system allowed its dimensions to be modified to adapt to the size and layout of the pavement, becoming technical registers, decorative elements as well as functional elements”, points out Daniel Díaz, head of Subway's Technical Department.

Uponor's Invisible Air Conditioning solution for underfloor heating (heating and cooling) - with the Uponor Klett Self-fixing system - has been integrated into the raised floor Matrics technical screed.

Project Facts:

Location	Completion
Madrid, Spain	2023
Vrsta objekta	Product systems
Office building	Površinsko grejanje i hlađenje
Address	Project Type
C. Tutor 16, 28008 Madrid	Renovation

Partners

Uponor's technical office is involved and efficiently supports all Matrics projects that require air conditioning, even developing special and specific solutions that may be needed.
Daniel Díaz, head of Subway's Technical Department.

- Architect: Tuñón y Albornoz Arquitectos
- Developer: Arquia Inmuebles
- Installer: SANJOSE Constructora

Invisible water based underfloor heating and cooling for a renovation project

It is a solution for the modernization of floors, especially indicated to solve special requirements such as: free height problems or having a very reduced thickness —from 4.8cm plus paving—; need for a solid, solid floor, without a tube and without clapper problems; the need to integrate a radiant floor installation, and/or an air ventilation installation, also through the floor; or, especially, when you want to modernize a pavement that is incompatible with raised floors such as stone floors, exposed concrete, terrazzo, stoneware of any format, continuous, resins, natural wood pavers in any format, etc.

In the words of Daniel Díaz, "This alternative solves the deficiencies of conventional raised technical floors, and addresses their problems by providing solvency and durability of the installation, a system capable of admitting any program of present but above all future uses, and especially suitable for office buildings, for long-lasting cultural spaces or for spaces for multipurpose use".

A highly innovative integration process
Based on the requirements of the basic project of the architecture-engineering studio, the ideal technical solution was agreed upon. "Uponor's technical office developed the characteristics of the radiant installation, and it was integrated into raised floor Matrics system to offer a single, optimized and coordinated solution. The resulting product is the required technical flooring", describes Daniel Díaz.

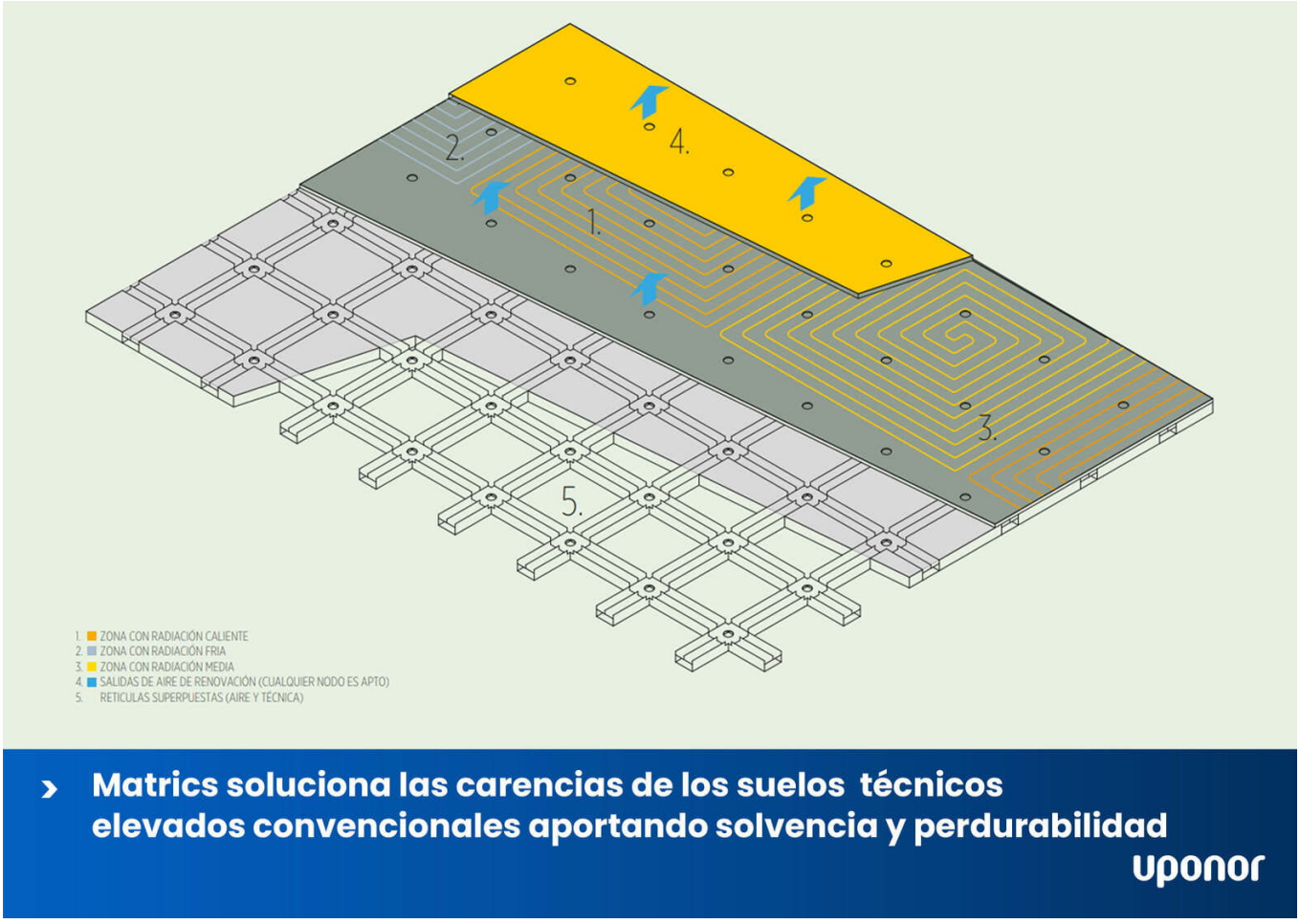
Users, owners and tenants, will have the ability to develop any present and future use in the best conditions of comfort and efficiency known today, as well as the possibility of using any type of flooring with technical installations and comfortable air conditioning.
"If raised floor Matrics system also incorporates its network of air ducts and floor diffusers, the client solves all the air conditioning with a single product, consuming a minimum thickness. Working with Uponor provides the security of incorporating the advances in this type of facility that allow raised floor Matrics system to always be at the forefront", affirms Daniel Díaz.

The challenge of sustainability in the tertiary sector

For Daniel Díaz, "The paradigm of sustainability is increasingly common in architecture, and 'green' certifications such as LEED or BREEAM are also increasing in the tertiary sector, although in Spain, with regard to technical floors, the use continues majority of raised floors with service boxes, which do not follow this line, being solutions that have to be replaced in the short or medium term".

Despite the progressive incorporation of efficient products and facilities in the tertiary sector, this trend continues to be a minority. "Fortunately, the use of underfloor heating —both as a superimposed installation and as thermoactive slabs—, the forced improvements in building envelopes, and permanent solutions such as raised floor Matrics system —which allow technical and radiant to be combined in a truly efficient way— are helping to increase the degree of sustainability of architecture", concludes Daniel Díaz.

Edificio de Oficinas Calle Tutor 16 (Madrid)







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