ISOLGOMMA
SILENCE MAKERS

VIBRATION CONTROL

BUILDINGS

Benefits

Residential comfort

Reducing vibrations helps to create peaceful environments, enhancing people's quality of life.

Structural damage reduction

Our vibration control solutions increase building flexibility, minimizing the risk of structural damage.

Exceptional performance

Vibration control enables the construction of perfectly insulated buildings, even in challenging environments such as near railway lines or industrial areas.

Enhancing property value

Protecting buildings from vibrations helps to increase their commercial value and market appeal.

*The**Greennovation***

90%

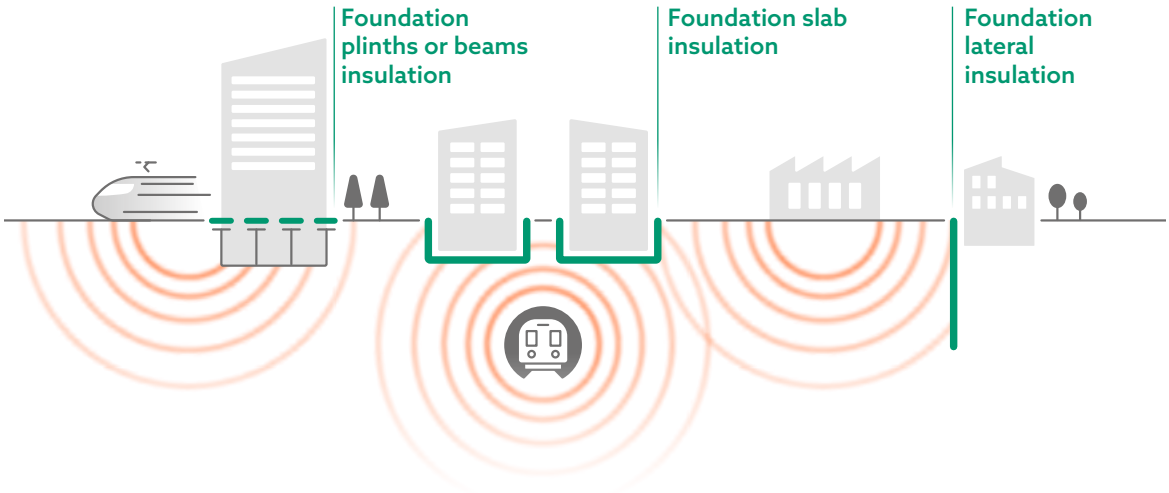
recycled products.

Vibration control

Build solid foundations of well-being.

As urbanization quickly accelerates, buildings are increasingly situated near sources of unwanted vibrations such as railway lines, busy roads, or industrial facilities.
These noise sources not only compromise the comfort of indoor spaces, but also negatively impact people's quality of life.

Our vibration control solutions are designed to transform any building into an acoustic sanctuary.



Foundation slab insulation.

Foundation slab insulation is a technique that is both highly effective and simple from an engineering standpoint. This solution involves installing an insulating system between the foundation slab and the ground, ensuring optimal separation between the building's foundations and the underlying soil. To achieve complete insulation, it is also necessary to line the perimeter walls of the foundation. This approach guarantees a total reduction in vibrations, protecting the entire structure and ensuring comfortable, quiet environments.

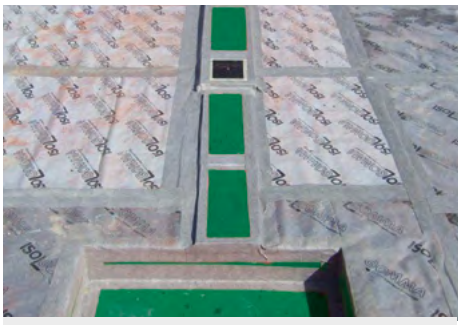
Product: **MEGAMAT**

Office building foundation,
Romano d'Ezzelino, Vicenza.

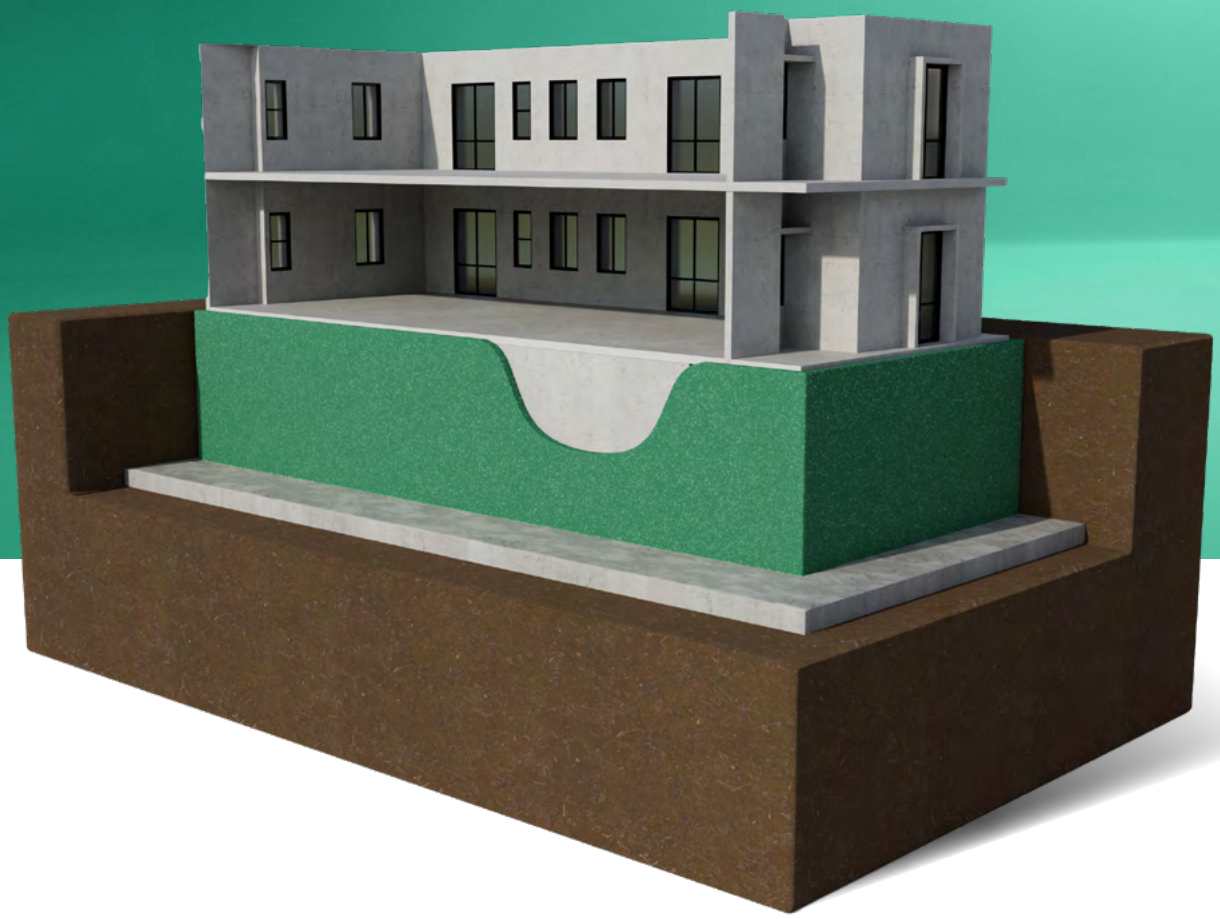
Foundation plinths or beams insulation.

If your building's design includes foundation plinths or beams, it is recommended to focus solely on insulating these key structural elements. This targeted approach allows to work on smaller areas compared to slab insulation, while delivering the same anti-vibration performance. To achieve complete insulation, it is also essential to treat the foundation's perimeter walls. This ensures the entire structure is protected from vibrations, providing optimal acoustic comfort for residents.

Product: **MEGAMAT**



Anti-vibration supports on the Coop shopping centre support structure, Switzerland.



Foundation lateral insulation.

Insulating the foundation's perimeter walls is a highly effective solution for reducing vibrations transmitted from the external environment, significantly enhancing internal comfort. This approach is suitable for both existing buildings, as it allows minimally invasive interventions on the structure, and new constructions, seamlessly integrating into projects from the initial design stages.

Product: **MEGAMAT**

Residential complex foundation, Poland.

Products

MEGAMAT is an effective solution for counteracting noise pollution caused by vibrations in buildings. When applied as an insulating element within building foundations, it delivers excellent performance thanks to its four density variations. Additionally, it ensures maximum mechanical protection and water resistance, even when concrete pours are applied directly onto its surface.

		MEGAMAT			
		500	650	800	950
Thickness	mm	12,5 - 25 - 50		12,5 - 25	
Standard size	mm	1200 x 800			
Static use range	N/mm²	0,050	0,150	0,300	0,500
Dynamic use range	N/mm²	0,250	0,600	1,500	2,000
Maximum loads	N/mm²	0,800	1,500	3,000	4,000
Static elastic module	N/mm²	0,550	1,550	3,000	5,000
Dynamic elastic module	N/mm²	1,800	4,500	8,800	14,200
30% compression	N/mm²	0,250	0,600	1,500	2,000
Loss factor		0,143	0,140	0,136	0,137
Fire resistance		Class E			

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