



LIFE+

ANTI-COLLAPSING

Securing of floors



LIFE+

Anti-collapsing



LIFE + is the system for securing brick and concrete, hollow-core concrete, steel or wood floors subject to the detachment of elements such as portions of plaster or hollow block elements (collapsing). It consists in the application of preformed in GFRP (Glass Fiber Reinforced Polymer) meshes fixed on the joists at the bottom of the floor through specifically dimensioned structural connection systems. An effective containment of the detachment is thus obtained. The system can be left exposed, plastered or covered with a false ceiling.

Securing of brick and concrete, hollow-core concrete, wood, steel floor due to:

- design defects
- poor quality of materials and implementations
- poor maintenance of the work
- loads applied

The lightness of the materials, the availability of the meshes in rolls up to 100 m² easy to handle, the relative stiffness of the materials allow a quick and easy installation, thus applying the mortar in manual or automatic mode in a single layer. The result is a reduction in installation times and costs and better management of the construction site.



High mechanical resistance



Reversible intervention



Fire reaction class A2



Low weight and thickness reinforcement



Absence of corrosion



Easy installation



Eco-compatible system



Amagnetic and radiotrasparent



Designed for different types of floors



Breathability of the masonry



Tested and certified system

Issue



Solution



Solutions for floor securing

Buildings exposed to collapsing

The term "collapsing" of the floor elements indicates the breaking and **detachment** of the intrados elements **of the hollow block slabs** used in the construction of brick and concrete ceiling slabs. The detachment of these elements from the ceiling is very dangerous, the sudden collapse of a portion of the floor involves the detachment of about $25 \div 40 \text{ kg/m}^2$ of material, up to 90 kg/m^2 . It concerns almost half of the schools and public buildings in Italy and in general, the buildings built between the 40s and 70s and is caused by **errors in the design, execution, choice of materials**, the **modification of the static conditions** of the ceiling slab, the **environmental conditions** and the **lack** of an adequate **maintenance** plan.

Beware of the following issues:

- cracks in the plaster
- signs of surface degradation (swelling, infiltration, etc.)
- partial detachments, even small ones

LIFE+ system is an easy-to-use solution, where a fast and effective intervention to secure the intrados of the floors, of any type, is required.



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Certified company by
SGS in accordance with
ISO 9001:2015 standard



ISO 14001
LL-C (Certification)

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