Lenzi Egisto – FF: Aegis

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Research and Development new and innovative textile solutions

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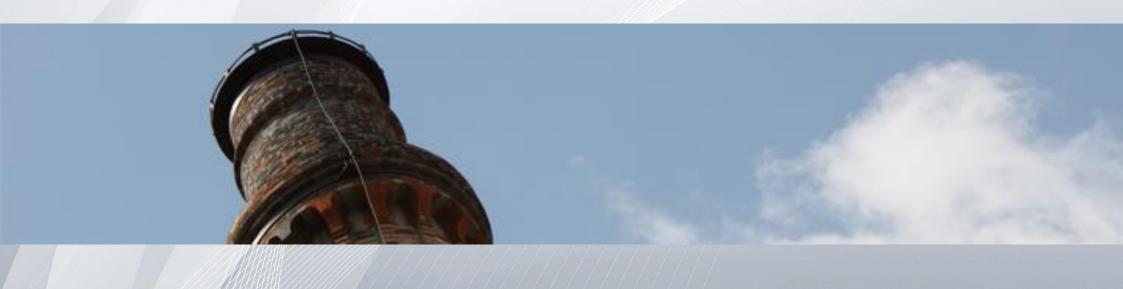




LENZI – Innovative Textile since 1898

LENZI :

Innovative Textiles to solve users needs



Lenzi for the Italian Army

In cooperation with Col. Lupini and the Forgore parachutists Brigade, in 2002 at Lenzi we developed the innovative NYCO fabric for combat suits, nowadays used not only by the Italian Army, but by many States both in Europe and Extra Europe.



Col. Luigi Lupini

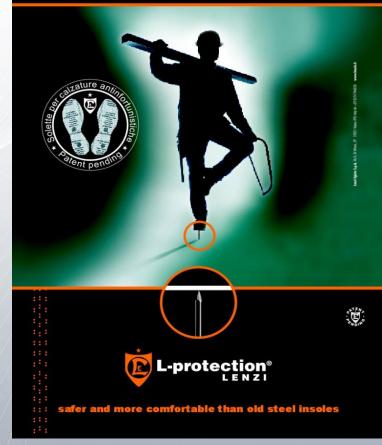




LENZI – Protective Textile Barriers

Any of yours operating in a construction yard, or in a production mill, you are probably using one of our innovative materials: perforation resistant textile insert for safety boots. Elastic, flexible and lightweight, since 2003 L-Protection has revolutioned **PPE market Worldwide**

insoles for safety footwear Nail-proof fabric





LENZI – few of our innovative solutions



Flexibility, elasticity and lightweight to contain and absorbe impacts, fractures and structural failures

Out of these observations

has been conceived

AEGIS

A textile barrier to contain

components of secondary

construction

SAEGIS

Safe construction for our future





FIBER REINFORCED SYSTEMS ON THE MARKET

- CARBON FIBERS
- GLASS FIBERS
- ARAMIDIC FIBERS
- BASALT FIBERS

Minimum extension for maximum solidarity with the structural elements;

Raising of the breaking point of the structural building elements;
RIGID elements, which collapse in a FRAGILE way with consequent sudden failure.

R.E.S. RETE EDILIZIA SICURA



AEGIS SYSTEM: FLEXIBILITY, ELASTICITY AND LIGHT WEIGHT

Even if the appearance of AEGIS products can make them visually similar to other fiber reinforcements, they behave in a totally different



AEGIS

Video



ELASTICITY AND FLEXIBILITY TO ABSORBE ENERGY

The tensions accumulated before the fracture of the non-structural parts (pots and slabs of the ceiling, walls, partitions, etc.) are discharged at the time of their failure. It is after this failure that the AEGIS textiles, due to their characteristics of high tenacity, elasticity and flexibility, ensure that the various fragments are contained, reducing physical damage to people.



Partition wall with force on the side with Aegis in cement plaster.

Antisfondment Glass effect



Side opposite to Aegis, no contact with columns or beams. Breakage but no falling of wall parts



AEGIS A SAFETY BARRIER

The "AEGIS" fabrics are applied to the partition walls and and fixed to the structure at the same time: the panels thus secured to the structure are prevented from tipping and rolling out and, in the event that their breakage, any projection of their parts and fragments into the surrounding space is blocked and they are held back by the coating fabric itself.



"AEGIS" materials are available in two main forms:



AEGIS MATERIALS

AEGIS textile reinforcements are available in two main types:

High Tenacity Polyester WITH Stainless steel threads

- HERMES, Leno weave structure 2 cm x 2 cm
- ATHENA, a one by one weave of 1 cm x 1 cm

High Tenacity Polyester WITHOUT steel.

- EFESTO, a closer weave of 0,4 x 0,4 cm

Materials are supplied in a roll form of 25 linear meters in width cm 100+10 - (27.5 mq)



Application of AEGIS materials

VERSIONS WITH STEEL WIRE HAVE PREFERENTIAL USE INSIDE PLASTER IN CEMENTITIZED MORTAR, SINCE THE STEEL, BONDING TO THE CEMENT, SHAPES AN EFFECTIVE ARMED PLASTER.





APPLICATION OF AEGIS FABRICS

THE VERSIONS WITHOUT STEEL WIRE HAVE A PREFERENTIAL USE FOR THE APPLICATION ON THE OUTER OF PLASTER, AS IN THE CASE OF USE OUTSIDE CEILINGS (in this case with flame retardant treatment)



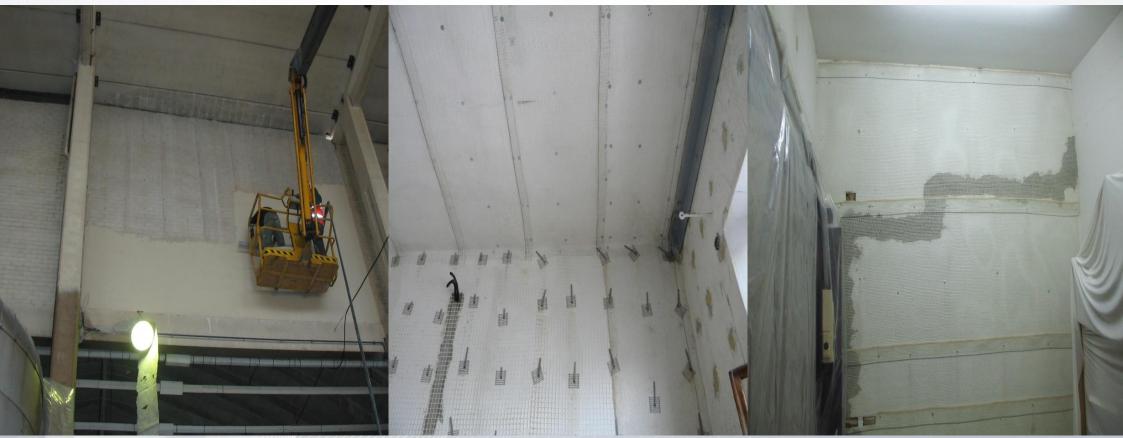


MAIN AEGIS USES

- Lightweight and elastic containment of external infill panels and solution to avoid falling (both on exhisting Buildings as well as for New Buildings);
- Effective protection against Ceiling falls and sinking;
- Containing walls, and cornices.
- Construction of external lanes and cycle paths
- Elastic reinforcement of plasters



AEGIS TO CONTAIN CURTAIN WALLS



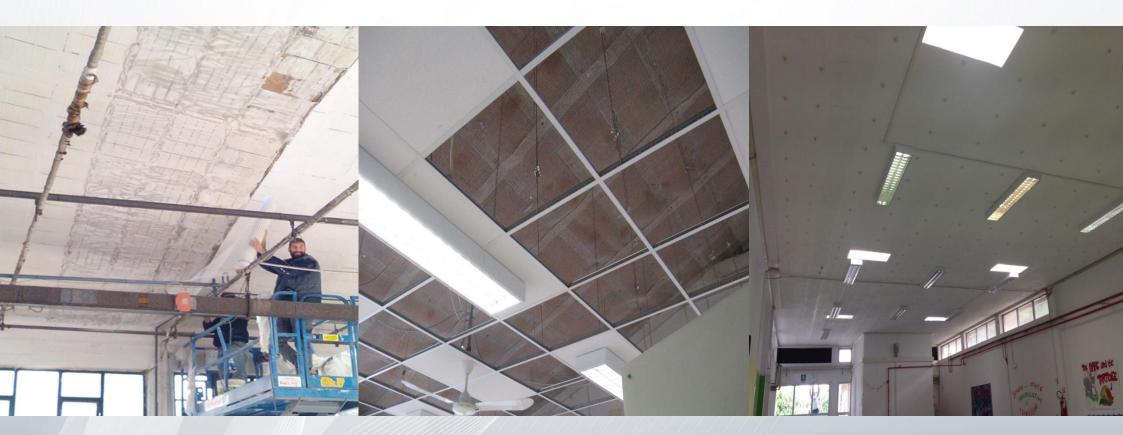
Fixing Industrial walls in a seismic area

Safe Wall and Ceiling in exhisting School Building in seismic areas

Repairing damnaged house after earthquake



AEGIS FOR THE PROTECTION FROM CEILING FALLS



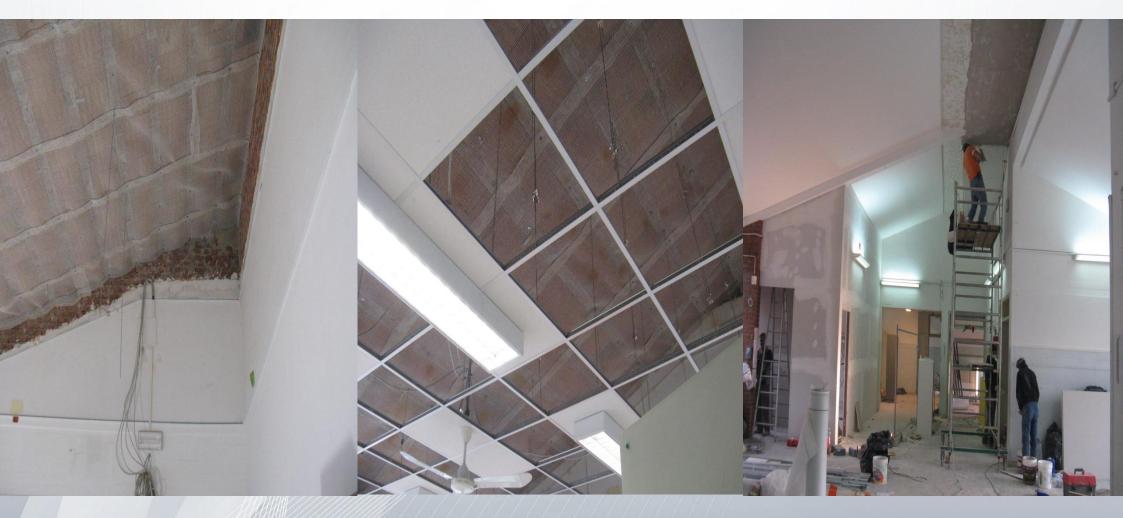


AEGIS TO PREVENT FALLS FROM CEILING IN CASE OF FINISHING WITH PLASTER





AEGIS TO PREVENT FALLS FROM CEILING Dry application on ceiling in case of suspended ceiling





AEGIS TO PREVENT FALLS FROM CEILING DIRECT COATING ON THE OUTSIDE OF CEILINGS





AEGIS TO SUPPORT PLASTERS TO PREVENT CRACKINGS





A SIMPLE WAY TO CREATE FOOTPATH WITH SMALL IMPACT AND LONG LIFE BY AEGIS



AEGIS USAGE



USAGE OF AEGIS

ADVANTAGES

- MAXIMUM SIMPLICITY OF APPLICATION AND INTERVENTION;
- GREAT SAFETY OF THE MANUFACTURER;
- IT ALLOWS WALLS AND CEILING TO BREATH ;
- FAST AND EASY APPLICATION;
- CHEAP TO APPLY;
- MINIMUM PLASTER USAGE,
- NO SIGNIFICANT INCREASE OF WEIGHT ON STRUCTURES;
- IT DOES NOT NEED USAGE OF HIGHLY SPECIALIZED LABOR;
- IT CAN BE USED WITH ANYBASIC PLASTERS AND MORTARS, EITHER CEMENT OR LIME BASED;
- NO ALTERATION OF STRUCTURAL BEHAVIOURS; -GREAT VERSTILITY OF USE FOR ALL NON STRUCTURAL PARTS.

AEGIS, A LIGHTWEIGHT AND FLEXIBLE SHIELD FOR CONSTRUCTION

IT IS FLEXIBILITY WHICH MAKES DIFFERENCE

AEGIS

THANKS FOR YOUR ATTENTION



R.E.S. RETE EDILIZIA SICURA SICURING srl - LENZI EGISTO by FF - B.F. Progetti

Thank you!

Questions welcome

