

## PROTECTION OF STRUCTURES AND EQUIPMENT



NUVIATech Protection, a brand of NUVIA Group, offers various protection products for structures and equipment.

Products for the fire protection of structures through wrapping systems, molded parts or mattresses.

Solutions intended for the fire protection of equipment or piping, by means of material complexes allowing to obtain very high performances of thermal insulation.

### Context

The protection of building structures must ensure the mechanical and structural properties to provide sufficient safety for people in case of fire and to allow evacuation from the building.

The protection of the equipment or piping must guarantee functionality, non-breakage of containment or controlled expansion of the protected element.

### Issues

All building materials experience a decrease in strength as a result if an increase in temperature, thus the strength decreases when its temperature exceeds a critical temperature.

The protection of structures ensures that the temperature under protection does not exceed the maximum temperature permitted for the type of structure in question.

In order to be certified, products/solutions must undergo a multitude of tests, often destructive (fire resistance), unitary or cumulative, in order to meet the different workload.

The implementation of products/solutions is a key aspect for NUVIATech Protection, because it is the key to success in the realization of a construction or renovation project. This aspect of constructability is therefore considered from the design phase to ensure installation in a complex environment that complies with certifications.

## Applicable standards and norms

The fire resistance ratings of our structural protection systems are based on the European standard EN (13381, 13501-2).

The fire resistance of our equipment protection systems is highly dependent on the type of equipment to be protected. Equipment fire protection requirements are not covered by a formal test standard. All qualifications are carried out through specific fire resistance tests in accredited laboratories (ISO 17025).

Our products/solutions also meet the specific requirements of our customers (EDF, ITER, CEA, NAVAL GROUP) not only for fire protection, but also in terms of watertightness, displacement and any other requirements from sensitive industrial sites.

## Areas of activity



INDUSTRY



NUCLEAR



BUILDING



NAVAL / MARINE



DEFENCE



ENGINEERING WORKS