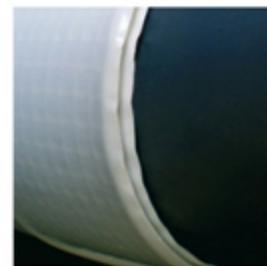
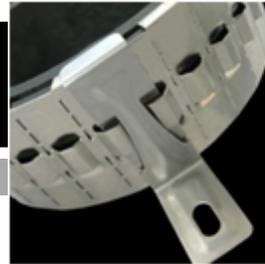




"A JOURNEY THROUGH
THE FIRE PROTECTION WORLD"

- LEADER ON FIRE PROTECTION
- WITH 27 YEARS OF EXPERIENCE WITHIN THE FIRE SECTOR
- COMPANY QUOTED ON THE WARSAW STOCK EXCHANGE SINCE 2007
- MORE THAN 1000 EMPLOYEES IN 7 EUROPEAN COUNTRIES
- WITH 6 FACTORIES IN 4 DIFFERENT COUNTRIES
- WORKS EXECUTED IN OVER 40 COUNTRIES
- MAJOR PROJECTS DEVELOPED IN EUROPE, ASIA, AMERICA AND AFRICA
- MORE THAN 100 CERTIFIED FIRE PROTECTION SOLUTIONS
- TESTED UNDER DIFFERENT INTERNATIONAL STANDARDS
- COMPREHENSIVE FIRE PROTECTION RANGE OF PRODUCTS AND SOLUTIONS





mercortecresa® is a Spanish company created in 1998 which, after becoming part of the Mercor® Group in 2008, commercializes national and internationally the most advanced comprehensive passive fire protection solutions. Its activity is developed into two business lines: smoke evacuation and material resistance.

The company's aim is to satisfy the needs the market presents in every moment. To achieve that, it provides personalized solutions with which the client can optimize his management. In the last years, mercortecresa® has strengthened his leadership in the sector thanks to his dedication, his determined support for technology and innovation, and also to the development of the most competitive market. Together with the most extensive range of products and always under the premise of offering the highest levels of quality and security.



The company's policy is based in a constant improvement of the productive capacity. Constantly, it is aware of the provided services quality and also of the changes in legislative matters.

§ **Fire resistance department.** It manages the passive fire protection products: Tecbor® Panels, Tecwool® Mortar and Tecsel® Sealing Systems.

§ **Smoke Evacuation Department.** Dedicated to the study and establishment of ventilation bears, skylights, smoke sectioned barriers, pressurising systems and control and management systems.

§ **Technical/ Quality Department.** Provides a comprehensive service to the client in normative and advising matters, as well as technical solutions development.

§ **Work Department.** Supervise on site both products and applications.



**TECBOR[®]
PANELS**



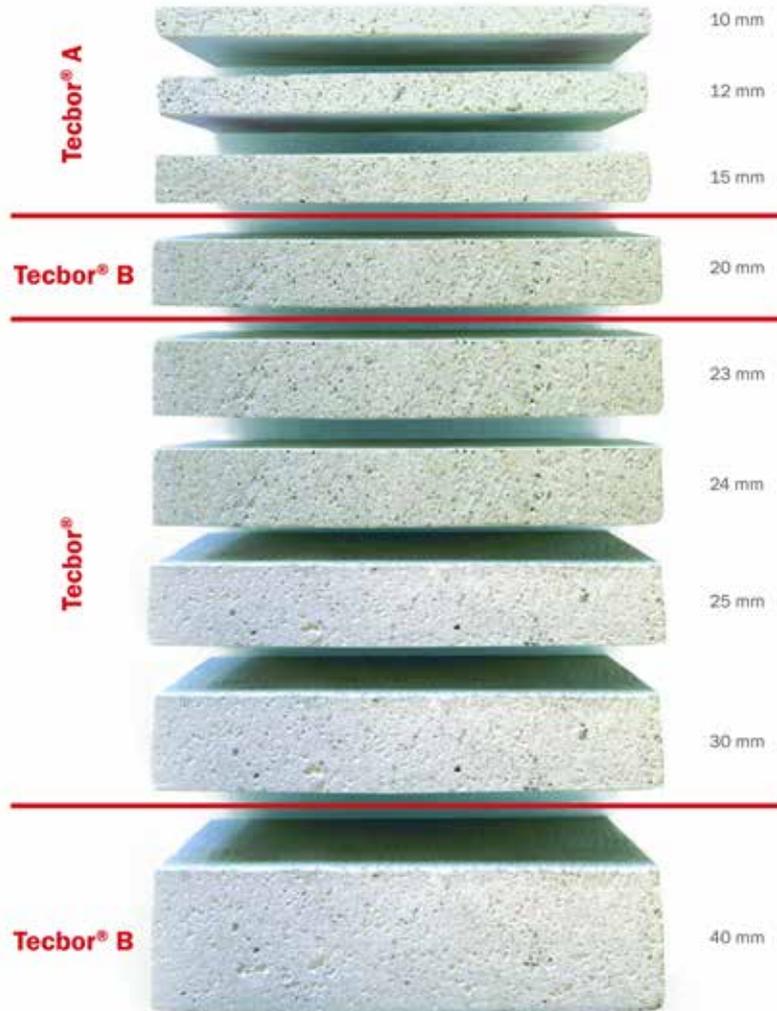
**TECWOOL[®]
MORTAR**



**TECSEL[®]
SEALING
SYSTEMS**



**SMOKE &
HEAT
EVACUATION**

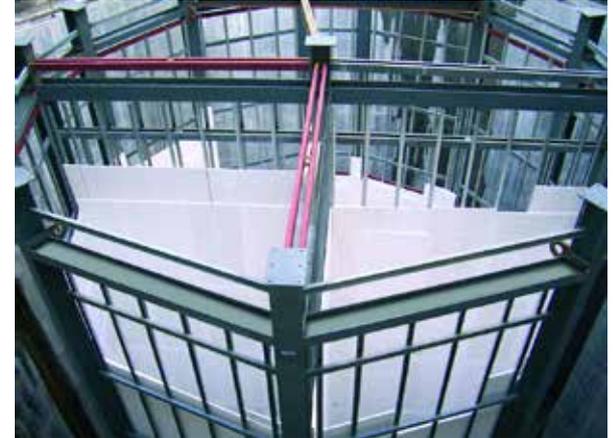


Tecbor® A & B Boards offer a wide variety of constructive solutions in passive protection against fire for construction and industry, they also have the EC mark certificate.

All the essays have been performed in accredited laboratories under the EN normative or similar, according to the specifications of the DITE 018-4 guide approved by the EOTA. The Tecbor® boards don't contain dangerous substances according to the Commission Data Base DS041/051.

mercortecresa® has a quality product development department which is constantly developing new constructive solutions together with the wide range of them that already provides.

- § **Steel structure protection.** Carrying capacity structure assurance.
- § **Cable tray protection.** Suitable for those projects in need of assurance of the electric.
- § **Ventilation canals.** To avoid fire propagation becomes very important to maintain the building sectioning; with this aim is necessary that the totality of the installation itinerary (ventilation canals in this case) has a fire resistance equivalent to the fire sectors they go through.
- § **Not carrying elements.** Solutions as partitions and plasterboards required to keep the fire compartment.
- § **False ceiling and forged protection.** False ceiling protection systems don't allow to establish a more effective barrier against fire and the elements that must be protected. These can be of different kinds: forged, metallic structures, installations, etc. With this system we get to extend the exposure time thanks to the properties of the **Tecbor® boards**.
- § **Wall curtain.** To avoid fire propagation through the facades, the **Tecbor® boards**, assure the spot forged-facade.
- § **Tunnels.** Passive fire protection has become one fundamental part when it comes to design and execute this kind of projects.



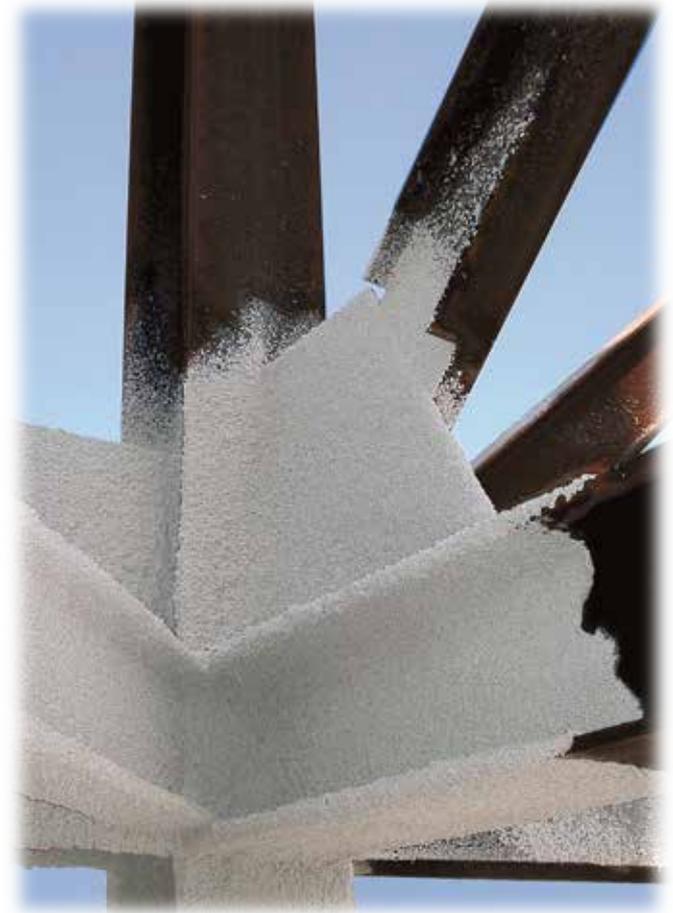
Tecwool® spray mortars are made by **mercortecresa**®. They are a combination of rockwool with concrete as only hydraulic ligant, as well as other additives in small percentages in added in its manufacture.

Its base are **rockwool** (the material resultant of burning basalt in high-temperature furnace) and **cement**; achieving a white finish product with great resistance and uniformity.

It is presented in three desinties:

- § **TECWOOL® T:** Low density for thermal isolation in facades, floors and covers.
- § **TECWOOL® F:** Medium density for protection against fire in all kind of structures and surfaces which are presented in construction.
- § **TECWOOL® 825:** High density for fireproof protection in industries, tunnels and refineries.

TECWOOL® F possesses the EC mark certificate.



TECWOOL® Mortar solutions

TECWOOL® F: CONSTRUCTION APPLICATIONS

- Steel elements protection.
- Concrete structural elements fire resistance.
- Carbon fiber protection in structures.
- Concrete / outlined sheet of steel mixed element protection.
- Ceramic vault forged and wood beams.
- Steel conduits protection.
- Cover / dividing meeting stripe.
- Great format partition wall.
- Tunnels protection.

TECWOOL® T: CONSTRUCTION APPLICATIONS

- Ventilated facade.
- Forge of premises and garages.

TECWOOL® 825 INDUSTRIAL AND PETROCHEMICAL APPLICATIONS

- Steel elements protection.
- Tunnels protection.



- The **instalations channels** are very sticking point as the ease the smoke and hot gases transmittion and they present a big risk in fire propagation.
- This risk must be reduced by the **penetrations sealing** in the points in which services go through the **fire sectorizations**.

These products are:

TECBOR® Joint Paste Ready to use : Is a combination of inorganic substances that react in an endothermic way in case of fire and they form ceramic layers that **avoid the expansion of flames** and limit the fire and smoke propagation.

TECSEL® Intumescent mastic: Is a **intumescent sealer** specially designed for gaskets in buildings, door frames and, in general, over gaps in **little openings** presented in sectorizations and break-fire elements.

TECSEL® Self-leveling silicone: Is a **sealant** fire-resistant designed to be applied over **horizontal dilation gaskets** intended for having big movements.

TECSEL® Foam: Is a self-expanded single-component polyurethane that when in presence of fire **expands and avoids the gases propagation**, as well as restrict the increase of **temperature** by the different sectorizations in buildings.



TECSEL® Flexible Sealant: Is a combination of inorganic fibres, silicates and **intumescent graphite** covered with a protective plastic. It is specially designed for **dilation gaskets**.

TECSEL® Lighting Covers. Is a combination of graphite and stonewool that in presence of flames produces intumescence, blocking the existing gaps in the instalation and avoiding this way the enter of fire and flames to the bordering fire sectors.

TECSEL® Socket Covers. It possesses the same characteristics as the Tecsel® Lighting Cover. Valid for electric, metallic or plastic boxes. In flexible partition wall or block.

TECSEL® Multicollar: Is formed by a **stainless-steel** die-cutting continuous band to which a **intumescent graphite** gasket adheres. This confers a perfect union to the tube as it allows to adjust the multicollar to the exact measure of the workplace.

TECSEL® Collar: Is formed by a **metallic frame** to which a **intumescent graphite**. It expands in presence of fire and blocks the gap the plastic occupies what avoids the pass of the fire and flames through the diferente fire sections.

TECSEL® Bands: Composed of **intumescent graphite flexible sheet** covered with polythylene. Turn out being the most efficient solution when the pipes go through irregular supports or when the fixation is complicated.



AIRPORTS – TUNNELS – TOWERS – REFINERIES – HOSPITALS – AUDITORIUMS – HOUSE OF CONGRESS – AVE ...



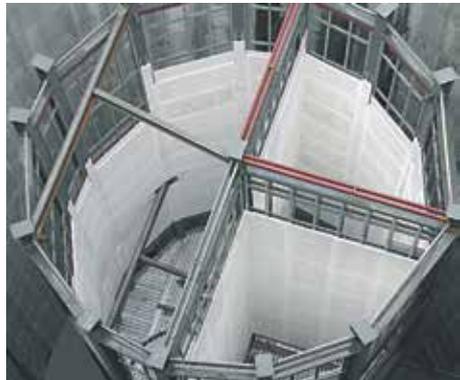
Barajas Airport, Madrid



The Cuatro Torres Business Area, Madrid



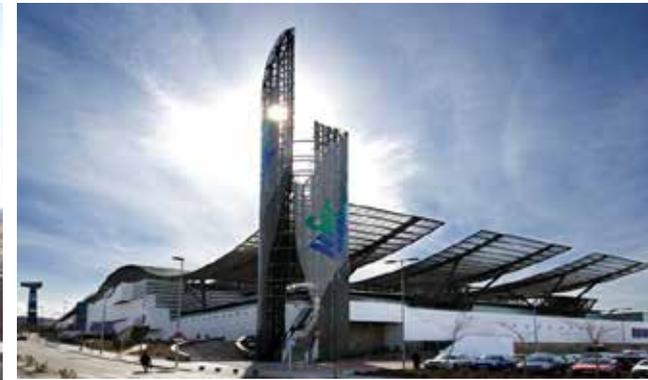
REPSOL Refinery, Puertollano



South tunnel BY-PASS M-30,
Madrid



Collado Villalba Hospital ,
Madrid



Fairground Hipercor, Guadalajara

Ventilator and skylights are systems that allow the creation of a smoke free layer over the ground. With the smoke and heat elimination improves the people evacuation, the property is protected and the fire is combated from its initial state.

SMOKE VENTILATOR:

- § Eura: Multifunctional louver aerator.
- § Eura-R. Upper and lateral rainproof louver aerator.
- § Duo Therma. Gate aerator.
- § Estra. Stylish louver aerator.
- § Ventria. Stylish window aerator.
- § Luma. Stylish window aerator.
- § Lumera. Window aerator.
- § Inova. Facade decorative window aerator.

SKYLIGHTS:

- § Skylights. Fixed and motorized.
- § Ventilators double DVP gate type. Double gate.
- § Lucernarios. Lucernarios with integrated smoke evacuation.



SMOKE COMPARTMENTS:

Smoke sectorization is made by fixed and mobile smoke barriers and flame arrestors.

The purpose of these barriers is to control the smoke movement and the toxic gases in case of fire. To achieve that, they sectorize and channel the smoke towards its own evacuation system.

PRODUCTS:

§ Fixed smoke barriers. 600° for 120 min.

§ BarrerMobile smoke compartment barriers and flame arrestors. 600° for 60-120 min and 1000° for 240 min.

PRESSURIZATION:

Smoke control by differential pressure is the most appropriate method to protect determined evacuation channels such as corridors, halls, stairwells, lift shafts, circulations zones, etc. Differential pressure systems allow to improve the security level against fire in a building.

CONTROL AND MANAGEMENT SYSTEMS:

Control system is the heart of any installation. In **mercortecresa**® applicable solutions for any project are aprovided, from the very basics to the most sophisticated. Electric, pneumatic, electric-pneumatic option or multiple system.



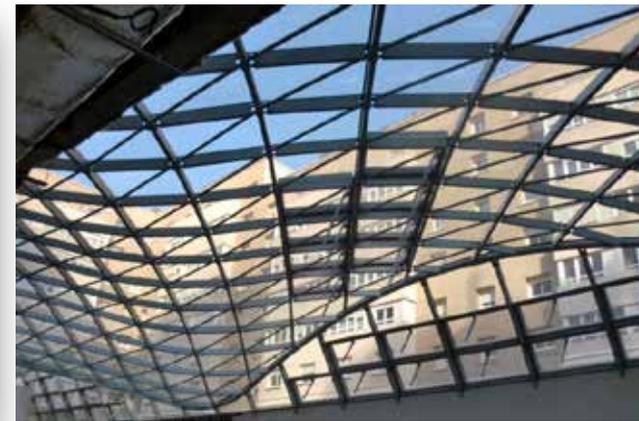
UNITS – HOTELS – SHOPPING CENTERES – THEATRES – MUSEUMS – AUDITORIUMS – AIRPORTS – PAVILLIONS ...



New Headquarters of Madrid City Hall



Airport, Málaga



Castellana 200 Shopping Centre, Madrid



Collado Villalba Hospital, Madrid



Ifema Pavillion 2, Madrid



Logistic Centre Eroski in Elorrio

We provide to our clients internationally (engineering, architects, building companies, specialised distributors,...) the best professional experts in Passive Protection on outsourcing basis. Working under its own branding,. Making possible this way to assist to tenders, training in passive protection offer making, any kind of work or installation execution, references facing the final client in execution and technical meetings to determine solutions for specific projects,... all this together with **FULL GUARANTEE OF 25 YEARS** of experience in such a specialised area.

§ **WORK EXECUTION.** Sites Manager and expert forement. With Spanish and Arabid languages.

§ **TECHNICAL ASSISTANCE.** Engineers and architects. With Spanish and English languages.

§ **OFFERS MAKING.** Expert engineers and architects. With Spanish and English languages.

§ **TRAINING.** Specialised courses in matters of passive protection both in English and Spanish.



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UNITED ARAB EMIRATES
ABU DHABI AL SALAM TUNNEL



SINGAPORE SINGAPORE
MARINA COASTAL TUNNEL E.XP. 482



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SPAIN PUERTOLLANO
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CONNEX TOWER



ALGERIA ALGIERS
INTER.. CONFERENCE CENTRE





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