



**TECHNOKONTROL BULLET PROOF &
HEAT FIRE RESISTANT WALL PANELS
& SAFETY DOORS**

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Products and services insured by



Technokontrol is a member of the



National Fire Protection Association
The authority on fire, electrical and building safety



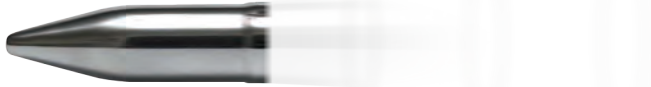
WALL PANELS

BULLET PROOF & HEAT FIRE RESISTANT

TECHNOKONTROL

BULLET PROOF & HEAT FIRE RESISTANT
WALL PANELS

Due to many of Technokontrol clients being governments, large international corporations and private individuals based in countries where the risk of terrorism or sabotage is greater due to geo-political or religious/social/military/crime issues we have the possibility to combine our heat/fire resistant 13mm thick wall panel which protects up to 1600° direct heat/fire blast for over three hours with a Level III bullet Proof protection panel.



Due to both panels not extending in joint/combined dimensions 26-30mm this is a great product to stop fire/heat exposure due to accidental fire, terrorism or fire bombs attacks and at the same time direct arms attacks up to Level III. In the event of the client wishing to increase either or both levels or protection this can be easily done by joining more panels to increase its protection levels.







The use of the Technokontrol Fire / heat panel is also extremely interesting especially in high level buildings as skyscrapers or tower blocks where fire is the real danger to these buildings as time becomes a “ life or death” situation as in many cases seen recently in the media around the world where even the fire services couldn’t reach the higher parts of the tower blocks and the internal fire emergency systems have failed causing many injured and human deaths. The use of our Technokontrol heat/fire panels offers our client more than three hours of protection of fire / heat exposure containing the fire in all or selected protected areas and to increase the chances of evacuation and allowing more time for the local fire or internal emergency services to arrive and to assist.



As crime is becoming a daily and more of a common issue around the world and at any time a criminal group may decide to attack / rob a clients home or business using our joint panels Fire/heat-Bullet Proof reassures our client that his building has enough protection to withstand a direct fire arm attack during some time until the police or security services arrive and assist the clients. In the event of using our panels another great benefit is the little use of installation overall space required of 0.9mm-18mm which allows any client or building firm not to lose great amounts of valuable space lost in the internal or external walls of the building and also reducing overall weight of the building / structure but maximizing the building security and overall its protection to the highest levels possible.





The Technokontrol panels can be attached on to already present walls or can be used as internal new panels hence the client than can install the panels in new buildings and for already built buildings as the client may wish to only use them in certain areas or exposed areas of their homes or businesses allowing the client to decide where he may require these protection panels. Depending on the design of the building we can arrange that the bullet proof panels to made of flexible bullet proof/Fire/Heat proof textile materials or hard wall panels allowing again for the client to decide of any type of design or unusual forms or shapes of their buildings, homes, offices or even security "anti-panic" rooms or private bunkers.

A low-angle, upward-looking photograph of a modern skyscraper with a glass facade. The building's grid of windows and dark frames is prominent, reflecting the bright blue sky and scattered white clouds. The perspective creates a sense of height and architectural scale.

TECHNOKONTROL IN THE CONSTRUCTION INDUSTRY





Technokontrol in the construction industry

In an industry where there are more & more accidents occurring every year both on a residential and industrial basis, we at TechnoKontrol believe that it is vital that we keep working so as to improve the quality of the products used within the Construction Industry.

Therefore we promise to work alongside all governmental agencies and architects so as to work towards changing legislation in order to ensure that the construction industry becomes both safer and more cost effective in the areas of anti-explosion, non flammable and heat resistant products.

Although we are constantly working so as to bring new products to the market place, at present we can provide our customers with the following products.



Anti Explosions; non flammable; heat resistant Wall/Ceiling and Duct Systems along with Board Panels/Collar Systems which are usable both in the Industrial and Residential industries alike.

We believe that our products are more durable than that of our competitors as our products can withstand 1600°C for up to and past 3 hours, whilst current industry standards shows us that our competitors products can only withstand 650°C for up to 1 hour. Our products are also thinner than that of our competitors as our products only measure 13mm in width and finally we believe that our products are more cost effective (customized quote provided on application) than what is presently recognized as the current industry standard.

TechnoKontrol is currently working with many of the world's largest insurance companies so as to reduce insurance premiums by between 15%-30% on any item that carry's our specially designed product.

WALL-CEILING SYSTEM

At TechnoKontrol we are proud to announce that we have developed the thinnest, safest and most financially viable “fire proof wall system” currently available in the market place today.


Our Wall System is built around a plaster composite panel with a non-combustible mineral alloy fibre made with our exclusive VI alloy core. This is ideally suited for the construction of non-load bearing walls and offers an “any climate” dry installation.

Of its many features the one which is most popular with our current clientele is that of our Wall Systems ability to be dismantled and re-used in any new location, as this is something that no other fire rated wall assembly can offer in today’s market.

Our TechnoKontrol Wall system is available as standard in an aesthetic smooth white finish however, alternative colours and finishes are available on request.

**Available standard size: 13mm thick
3 hour fire rated wall**



A vertical image on the left side of the page shows a person's hand touching a textured, yellowish-brown wall panel. The panel is part of a larger system, with a dark vertical strip visible to its right.

If a customer wants a panel thicker or more resistant to fire can do, with a price increase by using more sophisticated alloy or as something much more but that is a matter of special customers.

BENEFITS OF OUR TECHNOKONTROL WALL SYSTEM:

- Reduces installation and scheduling time.
- Predictable - simple and easy to install allowing for more accurate project completion dates.
- Large manufactured components deliver consistent high standards of quality and performance .
- Cost competitive in many applications, both for new and retrofit projects.
- As TechnoKontrol works in conjunction with all major insurance companies we are confident that we are going to be able to reduce your insurance premium by at least 15%-30%. For further information contact one of our financial experts today.

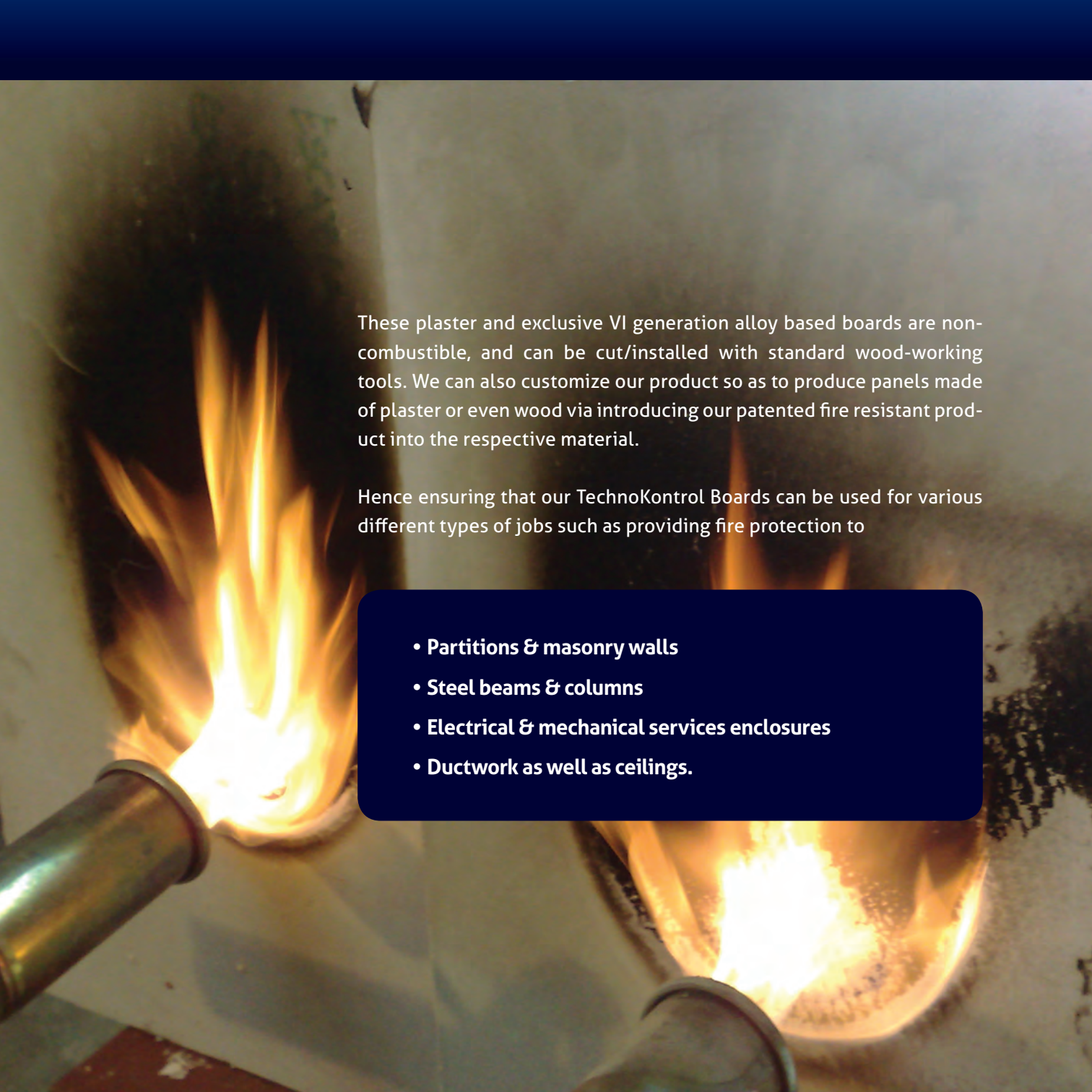
BOARD PANELS

TECHNOKONTROL FIRE RESISTANT BOARDS

We are proud to announce that we are able to provide one of the thinnest, safest and one of the most cost effective fire resistant boards currently available in today's market. At present we are able to provide a board as thin as 13mm (1.3cm) that is able to withstand 1600C° for over 3 hours. At present our R&D team is working hard so as to improve both the thickness level (i.e. make an even thinner board) and to make it more durable (i.e. withstand even higher temperatures for a longer period of time).

As with all of our TechnoKontrol products, our Fire Resistant Boards are manufactured and can be tested by independent and nationally approved laboratories.

The TechnoKontrol Fire Resistant Boards are designed and built to suit any fire protection application. Its box cladding solutions allows for maximum utilization of the material and there is a limited to no clean up, waste or disposal of the product after use.



These plaster and exclusive VI generation alloy based boards are non-combustible, and can be cut/installed with standard wood-working tools. We can also customize our product so as to produce panels made of plaster or even wood via introducing our patented fire resistant product into the respective material.

Hence ensuring that our TechnoKontrol Boards can be used for various different types of jobs such as providing fire protection to

- **Partitions & masonry walls**
- **Steel beams & columns**
- **Electrical & mechanical services enclosures**
- **Ductwork as well as ceilings.**



Therefore we have produced the TechnoKontrol Boards so as you (our customer) will be able to meet all of your passive fire protection needs which may include one of the following:

- Protection for structural steelwork
- Pipes, cable and other service enclosures
- Ventilation fire rated duct
- Floors and ceilings
- Internal walls and partitions
- External walls
- Doors
- Enclosures
- Concrete structure protection
- Cavity barriers



As with all our TechnoKontrol products, the TechnoKontrol Boarding systems are easily installed and offer many additional features, some of which include:

- It can be installed at any temperature or in any weather condition
- It offers a superior performance with a drywall type finish
- It has been proven to offer an extremely high level of fire protection
- It is Moisture resistant
- It offers a Zero clearance & has been proven to be impact resistant.
- It is built so as to provide the thinnest board possible within current regulations which in turn allows our TechnoKontrol Boarding system to offer a fire protection within the tightest of space requirements





TechnoKontrol Fire-Rated Floor and Ceiling Systems Provide Safety, Security and Strength.

National statistics show that a fire breaks out in a structure every 60 seconds and that the subsequent damages amount to more than 12 billion Euros a year.

Passive fire prevention products have been proven to stop the spread of fire and reduce the damage. Current construction codes within new buildings require that specific floors and ceilings must include what is known as fire separations. These are aimed to compartmentalize buildings thus, protecting them from the spread of fires and smoke.

Older buildings however were not necessarily built to the same code requirements of today hence; many managers are retrofitting their facilities in order to reduce the risk of the loss of life and property damage whilst in turn also benefiting from lower insurance premiums.

TECHNOLOGY PATENTS

Technokontrol has been awarded the prestigious joint
No. 1 position in Spain as the Number One Technology
Patent Corporation for 2014







MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO



Oficina Española
de Patentes y Marcas

During the present year 2014 Technokontrol will have broken all the historic records due to having been presented and approved over 100 patents which are at present being processed.





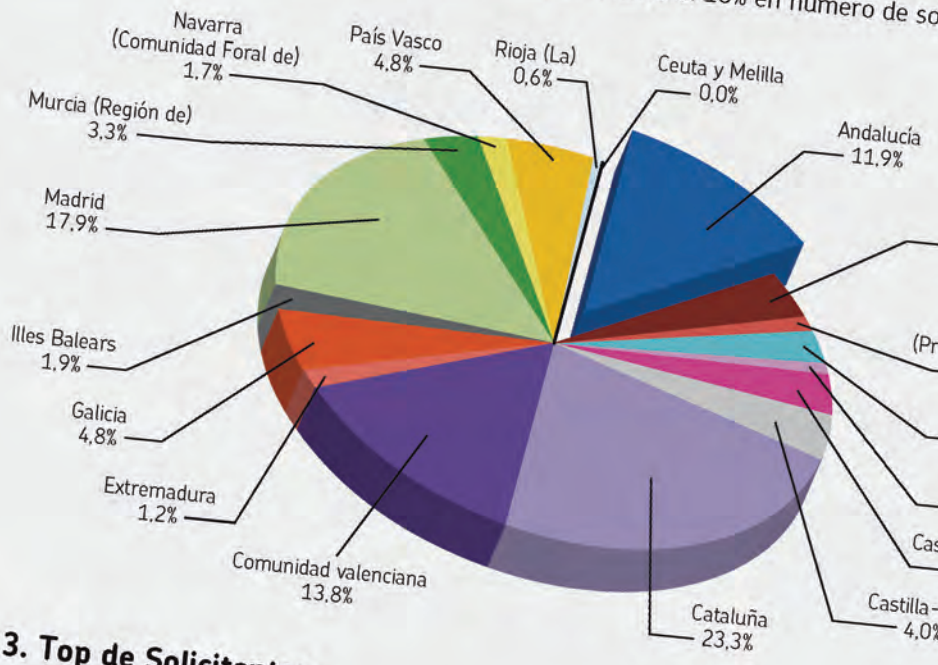
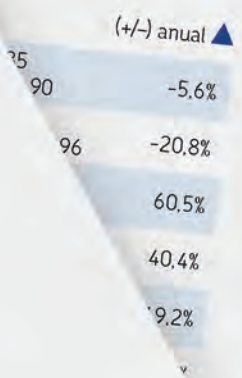
estadística solamente se considera el 1º solicitante.

TOP MAYORES SOLICITANTES DE MODELOS DE UTILIDAD, 2013

Nº de Orden	Residentes	Solicitudes
1	Technokontrol-Cat Global, SI	11
2	Melchor Gabilondo, S.A.	6
3	Soriano Pelaez, Federico	6
4	García-Lastra Merino, Marta	6
5	Gil Sánchez, Mario	5
6	Liceras Pascual, Daniel	5
7	Madruga Ramos, Jesús	5
8	Ruano Moyano, José	5
9		5
10		5

os sectores punteros del año 2013
Farmacéuticos y del (-20,8%)
sectores de Recipientes para

... y Madrid (17,9%) principalmente, seguidas de la t...
solicitudes presentadas, mientras que el 33,1% restante se reparte entre las Comun...
restantes, si bien ninguna de ellas, individualmente, alcanza el 10% en número de so...



A.2.3. Top de Solicitantes

El gráfico recoge los veinte mayores solicitantes de Modelos de Utilidad del año 2013. El Sr. D. Ramón Rodríguez Jañez ostenta el mayor número de solicitudes de Modelos de Utilidad durante el año 2013, seguido de Technokontrol-Cat Global, S.L.

78

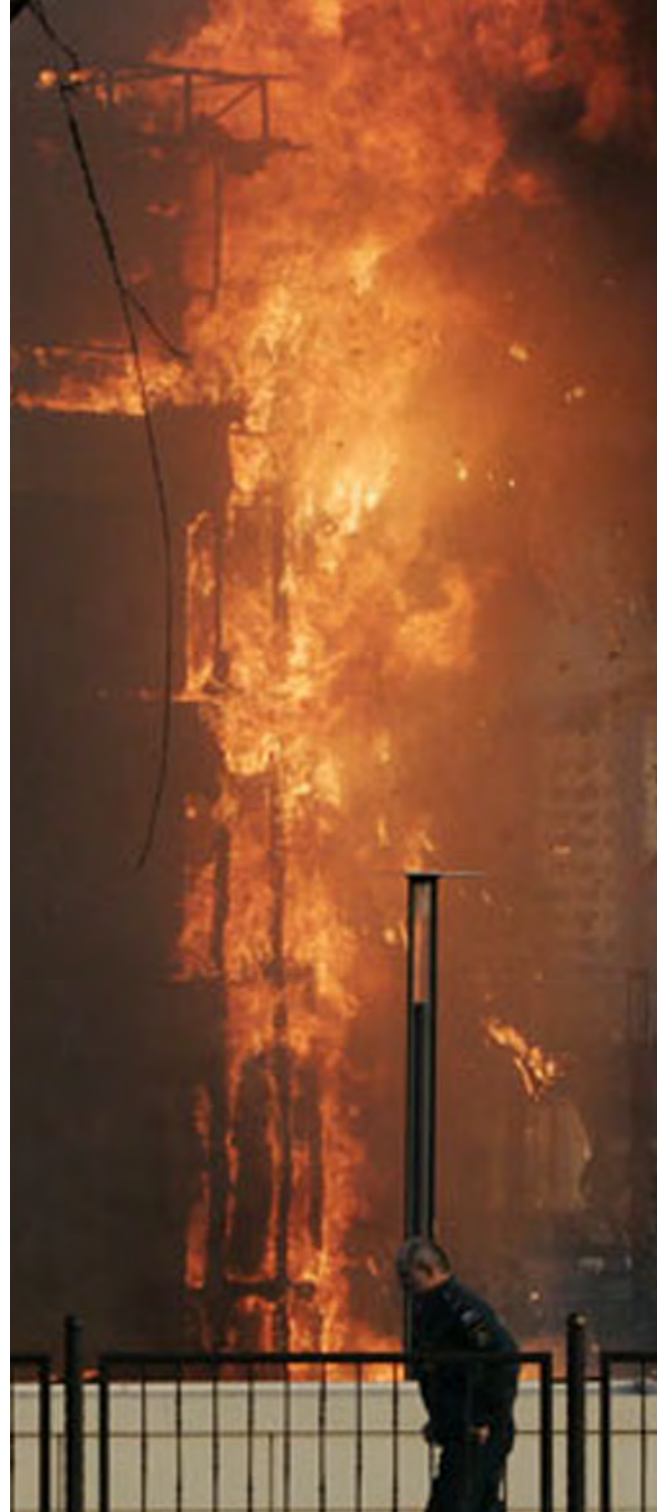








Technokontrol is one of the most varied of technology patents corporations in Europe, continuously patenting new, unique and exclusive technologies, systems and applications from energy related patents to environmental, security, construction, safety, efficiency, aviation, military technologies which most of them can be viewed on the Technokontrol web site.








TK FIRE RATED DOORS

TK DOORS FULLY MEET ALL OF THE NFPA 80-2007 EDITION TESTING REQUIREMENTS.

TECHNOKONTROL N°1 GLOBAL ANTI-FLAME / ANTI-HEAT RADIATION / ANTI-THERMAL EXPOSURE DOORS.

Fire rated doors and frames play a vital role in keeping people safe and minimizing property damage during a fire. Hollow metal doors are excellent at limiting the danger and damage of fires. The normal, hollow metal is the only material widely available with a 3-hour rating, however each country has different heat/flame tests and the norm range from 175°C/343°C to 540°C/650°C at testing in USA and in Europe.



The image shows a fire test chamber. On the left, there is a white door with a small window and a handle. The rest of the chamber is filled with a large, intense fire, with bright orange and yellow flames and a thick layer of smoke. The fire is contained within a dark metal frame.

The testing standards in some countries may reach the 1093°C for furnaces type testing up to 4 hours but again the thickness and weight reduction of the TK-Doors being unique with the advantage that the TK Door interior of the door requires less than 18mm (1,8cm) thickness and doubles the present test level of 240 max testing standards against the TK-Door 480 minutes protection and even higher.

TK DOOR/PANEL Construction Division designs, manufactures and installs our unique patented doors, underground mine gates, underground tunnels, mine shafts entrances/exits with the highest fire, heat, thermal radiation protective technologies which can commonly be installed in stairwells, offices, hotels, hospitals of any type of building and of course also of many high-rise buildings, tower blocks, shopping centres because they allow people to safely transit to/from any of the building floors with fire, massive heat exposure, thermal radiation, protecting all person and reducing the fire expansion.



NFPA TESTING AND REGULATION STANDARDS WHICH TK-DOORS SURPASS BY OVER 100% IN MANY TESTS

The NFPA requires annual inspections of fire-resistance rated door and frame assemblies. Local Authorities having Jurisdiction must adopt the new edition for this requirement to take effect. Most jurisdictions in the US will be adopting the IBC (International Building Code) model code, which references the NFPA 80 2007 edition requirement, as their local codes.

Most fire doors are designed to be kept closed at all times. Some doors are designed to stay open under normal circumstances, and close automatically in the event of a fire. Whichever method is used, the door's movement should never be impaired by a doorstop or other obstacle. The intumescent and smoke-seal bounding of fire doors should be routinely checked, as should the action of the door closer and latch.

FIRE PROOF DOOR



Flat Frame with Fire-Proof Seal Around



Stainless Steel Hinge



Fire-Proof Seal around Door Panel



Fire-Proof lock



TK-Alloy or TK-Fire Proof Panels

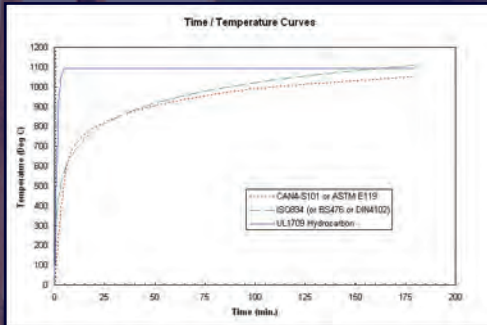
Normal rated fire doors are tested to withstand an ASTM E119 standard time-temperature curve for a specified period. There are 20, 30, 45, 60 and 90-minute-rated fire doors that are certified by an approved laboratory designated as a Nationally Recognized Testing Laboratory .

TK Doors have the unique advantage of not only in reaching and surpassing all the top testing levels of the best present manufactures and testing laboratories but also increasing all global testing standards beyond any other manufacturer, authority by at least 100%.

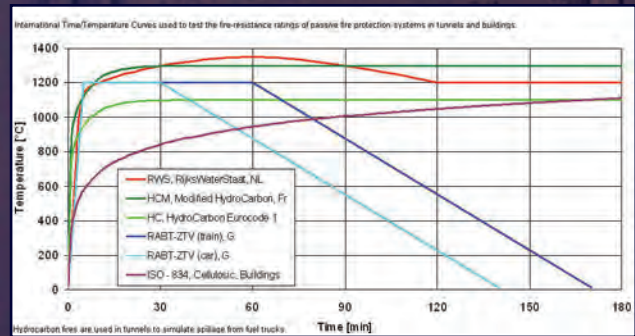
TK Doors have the great advantage of easily reaching the 480 minute range and even further with a continuous heat/thermal/flame contact in the range of 900°C to 1200°C.



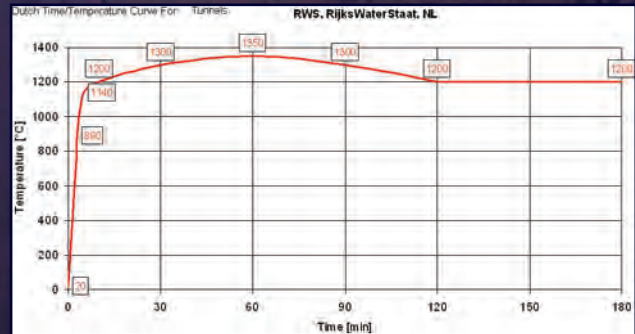
Din ISO ASTM UL Curves



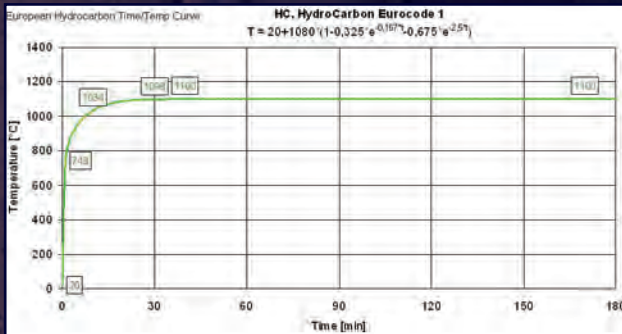
Tunnel HC ISO Curves



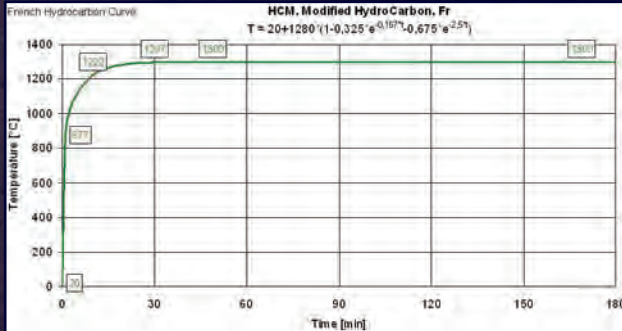
RWS Tunnel Curve



Eurocode 1 Curve



French HC Curve



DIAGRAMS

30:02

TK-VAULT-SAFE TESTS FOR FIRE RESISTANCE OF RECORD PROTECTION EQUIPMENT

TK DOORS FULLY MEETS ALL OF THE NFPA 80-2007 EDITION TESTING REQUIREMENTS.

CLASS 100

This rating is the requirement in data safes and vault structures for protecting digital information on magnetic media or hard drives. Temperatures inside the protected chamber must be held below 125 °F (52 °C) for the time period specified, such as Class 125-2 Hour, with temperatures up to 2,000 °F (1,090 °C) outside the vault. The temperature reading is taken on the inside surfaces of the protective structure. Maintaining the temperature below 125°F. is critical because data is lost above that temperature threshold, even if the media or hard drives appear to be intact.



CLASS 150 RATING

This is the rating required to protect microfilm, microfiche, and other film-based information storage media. Above 150°F (65.5°C) film is distorted by the heat and information is lost. A Class 150-2 Hour vault must keep the temperature below 150°F. for at least two hours, with temperatures up to 2,000°F. (1,093.3°C) outside the vault.

CLASS 350 RATING

This rating is the requirement for protecting paper documents. Above 350°F (176.7°C) paper is distorted by the heat and information is lost. A Class 350-4 Hour vault must keep the temperature below 350°F. for at least four hours, with temperatures up to 2,800°F.(1,093.3°C) outside the vault.









CERTIFICATES & ASSOCIATIONS



National Fire Protection Association
The authority on fire, electrical and building safety

Additional Certificates Due in 2016-17
Certificados adicionales en 2016-17
Certificats supplémentaires en 2016-17



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