



FIRE PROTECTION SOLUTIONS

Innovative fire protection products and solutions designed
to meet the latest fire protection code requirements.

INNOVATION

SAFETY

For over 100 years, TENMAT has been a leader in the development, engineering and manufacturing of specialist non-metallic materials that offer advanced passive fire protection capabilities.

SERVICE

TENMAT stands for innovation, safety products, commitment to our customers and the latest quality standards worldwide.

QUALITY

Fire Rated Recessed Fixture Covers

TENMAT offers a wide choice of fire rated covers for recessed lights, fluorescents and in-ceiling speakers. The covers have been developed to meet the code requirements of NFPA, IBC and UBC.

Other Passive Fire Protection

TENMAT's FIREFLY® range of intumescent materials is a family of technically advanced passive fire protection materials with outstanding performance that have proved effective in a wide variety of passive fire protection applications.



MEET THE BUILDING CODE THE SMART WAY

Recessed lights in ceilings are widely used in residential and commercial buildings. Each ceiling is subject to **fire regulations** and where applicable the **ceiling construction needs to be fire rated**. However, once a hole is made in the ceiling for recessed lighting, the integrity of the construction and its ability to perform in a fire is reduced significantly. Code Officials and lawmakers have recognized this fire hazard and the potential risks it poses to life and property. **The Building Code** therefore requires recessed fixtures to be enclosed with a fire barrier.

International Building Code

“Penetrations of membranes that are part of a horizontal assembly shall comply with Section 714.4.1.1 or 714.4.1.2. Where floor/ceiling assemblies are required to have a fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.”



**RECESSED LIGHT IN UNPROTECTED
CEILING OPENING**



**RECESSED LIGHT PROTECTED WITH
TENMAT LIGHT COVER**

Fits a **wide range** of light fixtures and trims.



FF109X 2 Hour Fire Rated Light Cover

UL Classified for recessed can lights up to 6"



The FF109X is **the only two hour UL classified** fire barrier that can be used with a wide range of recessed lights to effectively prevent the spread of flames through a ceiling opening.

The **flexible and lightweight** enclosures are made out of an intumescent material which will be activated in case of a fire, stopping both, flame spread and heat transmission for up to 2 hours.

Key Benefits

- ⇒ 120 minute protection
- ⇒ **Fits most popular IC rated fixtures**
- ⇒ For use with recessed incandescent, fluorescent or LED light fixtures
- ⇒ For Joist Spacing up to 24" on center
- ⇒ Suitable for 2"x10", 2"x12", 2"x14" and 2"x16" joists
- ⇒ Can be used in floor/ceiling, as well as roof/ceiling assemblies (attic)
- ⇒ Flexible and lightweight (approx. 2.5 lbs)
- ⇒ Easy Installation - can be fitted in seconds - no screws, drilling or additional sealant required
- ⇒ Maintenance free
- ⇒ **UL Classified**



Approvals

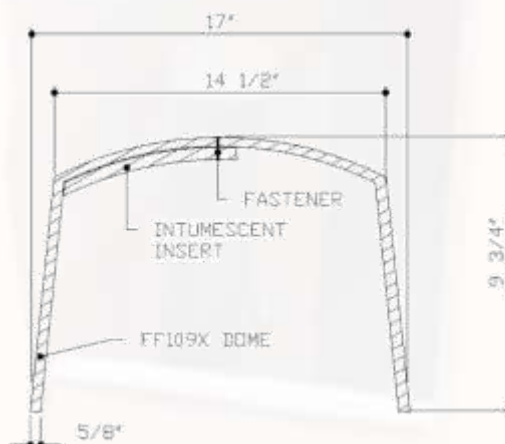
UL Classified to maintain fire ratings of up to two hours for the following fire-rated floor/ceiling assemblies:

L500, D500, G500, D200, G200, J200, and L200 series

UL Classified to maintain fire ratings of up to one hour for the following roof/ceiling assemblies (attics):

P200 and P500 series

Dimensions



THE SOLUTION

FLEXIBLE
LIGHTWEIGHT
FIRE TESTED
EASY INSTALLATION
COMPATIBLE

We offer the only **flexible**, **lightweight**, and fully **fire tested** enclosures on the market to securely fire rate your recessed lights.

TENMAT Fire Rated Light Covers **do not require any assembly** and are simply put on top of the light without the need for any sealant, fastener or specialty tool.

Our covers **can be used in conjunction with the vast majority of recessed lights**, regardless of manufacturer or model.



FF109-300 1 Hour Fire Rated Light Cover

UL Classified for recessed can lights up to 6"



The FF109-300 UL Fire Rated cover is a dome-shaped cover which has been designed to help maintain the integrity of fire rated ceilings for one hour when using recessed light fixtures. The unique design gives the architect, specifier and installer **more freedom in fixture selection** as the covers are suited to a wide range of recessed lights.

Key Benefits

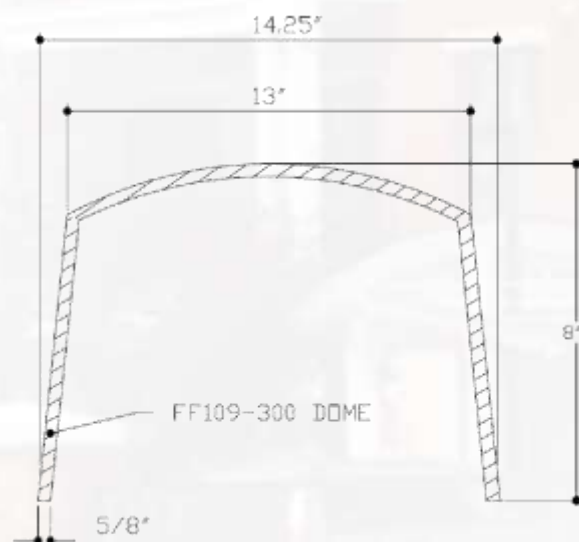
- ⇒ 60 minute protection
- ⇒ **Fits most popular IC rated fixtures**
- ⇒ For use with recessed incandescent, fluorescent or LED light fixtures
- ⇒ Can be used in L500 floor/ceiling assemblies
- ⇒ Lightweight (approx. 1.5 lbs)
- ⇒ **Easy Installation** - can be fitted in seconds - no screws, drilling or additional sealant required
- ⇒ Flexible material enables the cover to be fitted around obstacles or retro-fitted
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ Maintenance free
- ⇒ **UL Classified**

Approvals

UL Classified to maintain the fire rating (1 hour) for the following fire-rated floor/ceiling assemblies:

L500 series

Dimensions



FF109-350 1 Hour Fire Rated Light Cover

Suitable for recessed can lights up to 8"

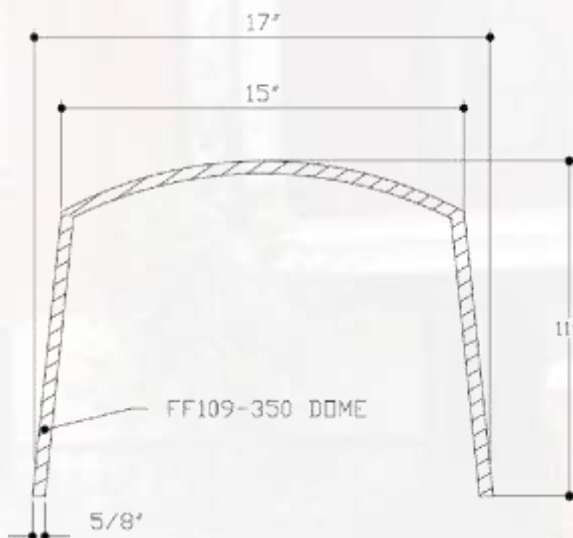


The FF109-350 is **the larger version** of the FF109-300. Both covers are made out of the same intumescent material and exhibit excellent **thermal and acoustical** insulating properties. The FF109-350 has an inside height of 10 3/8" and a diameter of 15" to fit the most common recessed light housings.

Approvals

ETL - Intertek certified to maintain the fire rating (1 hour) of fire-rated floor/ceiling assemblies.

Dimensions



Key Benefits

- ⇒ 60 minute protection
- ⇒ **Fits most popular recessed light fixtures**
- ⇒ For use with recessed incandescent, fluorescent or LED light fixtures
- ⇒ Can be used in L500 floor/ceiling assemblies
- ⇒ Lightweight (approx. 2.5 lbs)
- ⇒ **Easy Installation** - can be fitted in seconds - no screws, drilling or additional sealant required
- ⇒ Flexible material enables the cover to be fitted around obstacles or retro-fitted
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ Maintenance free



FF109-250 1 Hour Fire Rated Downlight Cover

Suitable for low profile LED lights up to 6"



The FF109-250 is a cone-shaped intumescent enclosure which has been specifically designed to help protect openings for **6" low profile LED downlight fixtures**. The ultra-flexible nature of the material allows the cover to get rolled up for easy retrofit, remodel or new construction installation from below the ceiling and provide a 60 minute flame, smoke and heat barrier.

Key Benefits

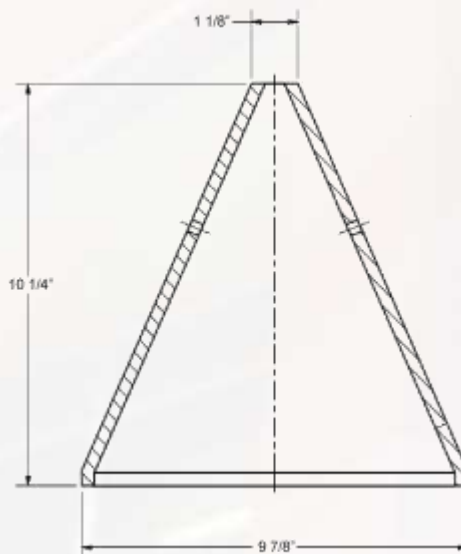
- ⇒ Easy Installation - **can be fitted in seconds** - no screws, drilling or additional sealant required
- ⇒ 60 minute protection
- ⇒ Cover is ventilated to reduce heat build-up
- ⇒ **Flexible** material enables the cover to be fitted around obstacles or retro-fitted
- ⇒ Maintenance free
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ **Lightweight**
- ⇒ **The only** fire tested solution for retrofit applications
- ⇒ Fits most 6" **low profile LED** downlight fixtures and **LED wafer lights**



Approvals

ETL—Intertek certified to maintain the fire rating (1 hour) of fire-rated floor/ceiling assemblies.

Dimensions



FF109-200 1 Hour Fire Rated Downlight Cover

Suitable for low profile LED lights up to 4"

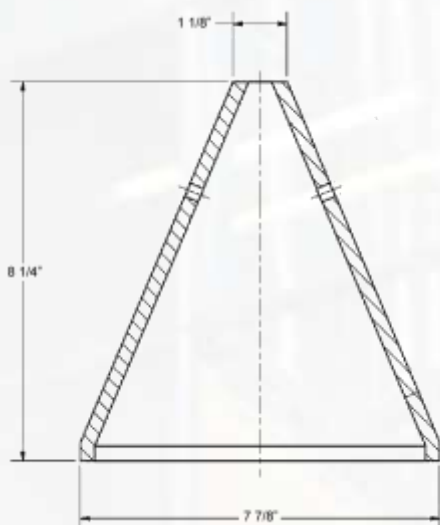


The FF109-200 is a cone-shaped intumescent enclosure which has been designed to help protect openings for **4" low profile LED downlight fixtures**. The high expansion and insulating properties of the material ensure that both, flame spread and heat transmission, are stopped for 60 minutes. The **flexible material** allows the cover to get rolled up for easy retrofit or new construction installation.

Approvals

ETL—Intertek certified to maintain the fire rating (1 hour) of fire-rated floor/ceiling assemblies.

Dimensions



Key Benefits

- ⇒ **Easy Installation** - can be fitted in seconds - no screws, drilling or additional sealant required
- ⇒ **Can be folded** and fitted from above or below the ceiling
- ⇒ 60 minute protection
- ⇒ Flexible material enables the cover to be fitted around obstacles or retro-fitted
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ Maintenance free
- ⇒ **Lightweight**
- ⇒ **The only** fire tested solution for retrofit applications
- ⇒ Fits most 4" **low profile LED** downlight fixtures and **LED wafer lights**



FF130-2x2 1 Hour Fire Rated Troffer Cover

UL Classified for 2' x 2' fluorescent & LED luminaires



The FF130-2x2 Luminaire Covers are UL fire rated enclosures designed to protect recessed 2' by 2' **luminaires**, **troffers** and **fluorescent fixtures**. The covers are ready to install with no assembly required and can even be retrofitted into position due to their flexible and durable design. The FF130 Cover can be folded to ease installation in **restricted spaces**.

Key Benefits

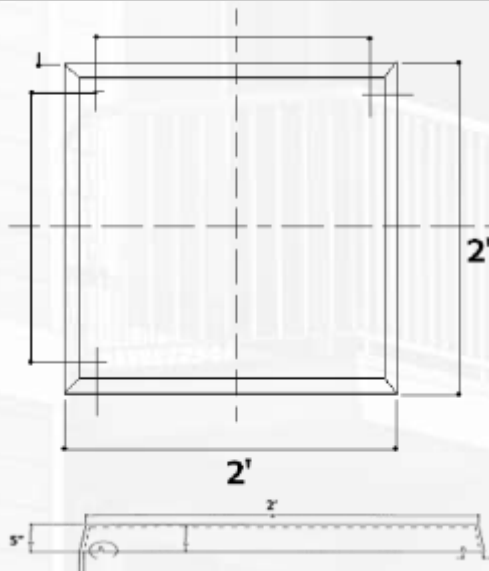
- ⇒ 60 minute protection
- ⇒ **Fits most popular fluorescent fixtures.**
- ⇒ Suitable for lay-in tile ceilings
- ⇒ **Lightweight** (approx. 5 lbs.)
- ⇒ Easy Installation - can be fitted in seconds - no screws, drilling or additional sealant required
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ Reduces heat loss through the fixture.
- ⇒ Maintenance free
- ⇒ Cable entry points can be made anywhere on the top and sides for ease of wiring of the fixture
- ⇒ **UL Classified**



Approvals

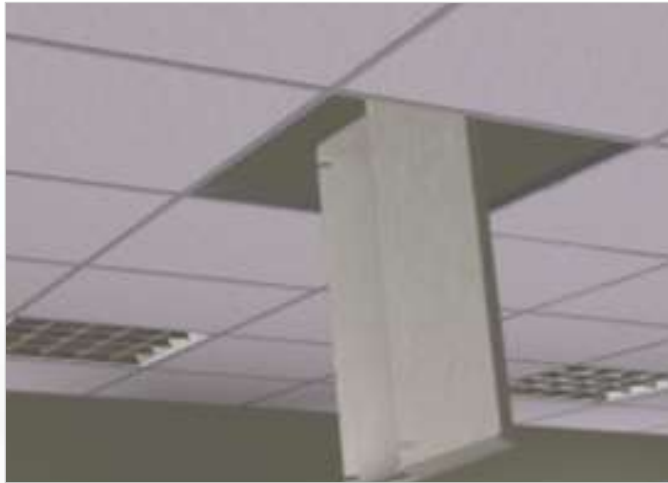
UL Classified to maintain the fire rating (1 hour) for the following fire-rated assemblies: A202, D203, D216, D219, G205, G208, G218, G252, G255, G256, G262, G264, J201, J202, L006, L201, L202, L206, L209, L210, P202, P204, P206, P207, P210, P211, P213, P214, P216, P225, P227, P228, P229, P230, P231, P235, P238, P242, P246, P250, P251, P254, P255, P259, P260, P261, P264, P265, P267, P268, P269

Dimensions



FF130-2x4 1 Hour Fire Rated Troffer Cover

UL Classified for 2' x 4' fluorescent & LED luminaires

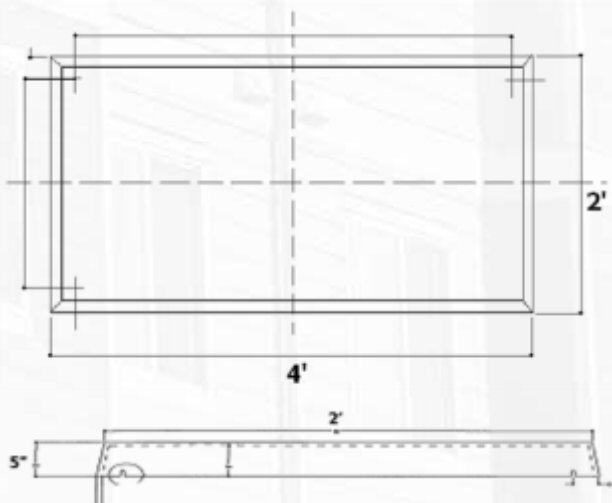


The FF130-2x4 Luminaire Covers are UL fire rated enclosures designed to protect recessed 2' by 4' **luminaires**, **troffers** and **fluorescent fixtures**. The covers are ready to install with no assembly required and can even be retrofitted into position due to their flexible and durable design. The FF130 Cover can be folded to ease installation in **restricted spaces**.

Approvals

UL Classified to maintain the fire rating (1 hour) for the following fire-rated assemblies: A202, D203, D216, D219, G205, G208, G218, G252, G255, G256, G262, G264, J201, J202, L006, L201, L202, L206, L209, L210, P202, P204, P206, P207, P210, P211, P213, P214, P216, P225, P227, P228, P229, P230, P231, P235, P238, P242, P246, P250, P251, P254, P255, P259, P260, P261, P264, P265, P267, P268, P269

Dimensions



Key Benefits

- ⇒ 60 minute protection
- ⇒ **Fits most popular fluorescent fixtures**
- ⇒ Suitable for lay-in tile ceilings
- ⇒ Lightweight (approx. 7 lbs.)
- ⇒ **Easy Installation** - can be fitted in seconds
- no screws, drilling or additional sealant required
- ⇒ Enhances the acoustic protection of the ceiling
- ⇒ Reduces heat loss through the fixture
- ⇒ Maintenance free
- ⇒ Cable entry points can be made anywhere on the top and sides for ease of wiring of the fixture
- ⇒ **UL Classified**

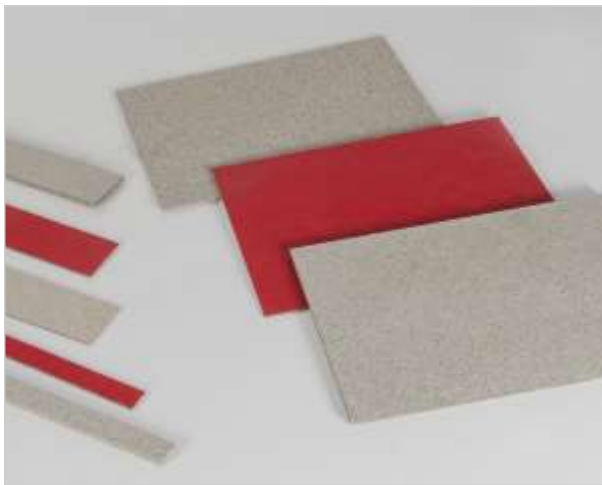


OTHER APPLICATIONS

Innovative Passive Fire Protection Solutions

TENMAT FIREFLY® Intumescent are technologically advanced fire protection materials used in a wide variety of **firestopping applications** throughout the world.

The materials are available in a wide range of sizes, thicknesses and shapes with expansion ratio and pressure generation criteria to suit even the most demanding applications.



Intumescent Strips & Sheets

TENMAT FF107 is an exceptionally powerful intumescent material which combines fast reaction with high expansion and pressure generation. The material is suitable for **head-of-wall joint seals, pipe wraps, pipe collars, gap seals** and other construction joints. It is available as sheets or strips lengths up to 80" and in thicknesses from 0.1" up to 0.23".



Vacuum Formed Intumescent

TENMAT FF109 is a highly compressible intumescent material which expands to form a resilient and stable char. The material is available in sheets or alternatively in vacuum formed shapes. Applications for this lower density material include **cast-in devices, pipe sleeves, cable baskets, vent ducts sleeves, or recessed light enclosures**.

OUR TECHNOLOGY

INTUMESCENT
FAST REACTION
POWERFUL
HIGH EXPANSION
TOUGH CHAR

TENMAT manufactures a range of **powerful** and **fast-reacting** intumescent materials.

TENMAT intumescent materials will quickly expand when exposed to the intense heat of a fire, creating a **tough char**.

The highly insulative char **seals off any gaps** and prevents the spread of flames, heat, and smoke.

TENMAT intumescent materials have extremely low organic content and **zero halogen**, resulting in very **low smoke** emissions.



FF160 Fire Protection Plug

UL Classified for openings up to a 2.5" or 4" diameter



The FF160 Fire Protection Plug is made of a rapidly expanding intumescent foam. The flexible and lightweight material is ideal for **retrofitting installation**, as well as new construction of power and control cables, telecommunication cables, and optical fiber cables through solid floors or ceiling systems.

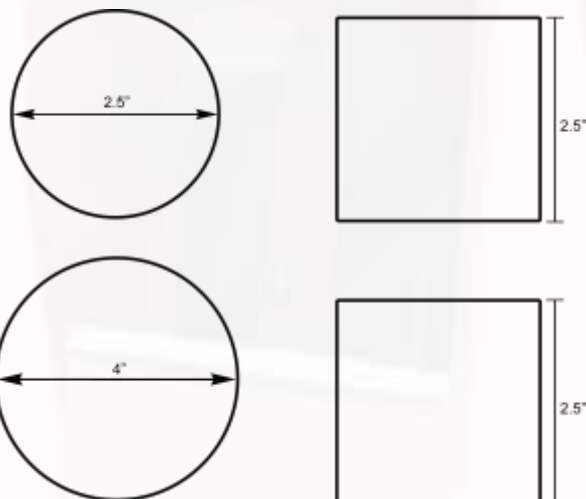
Key Benefits

- ⇒ Fire rated
- ⇒ Easy retroactive installation
- ⇒ Cost-effective
- ⇒ Easy installation
- ⇒ **Does not require any special tools**
- ⇒ For copper and aluminum conductor cables
- ⇒ For floor assemblies only one plug required
- ⇒ **UL Classified**

Approvals

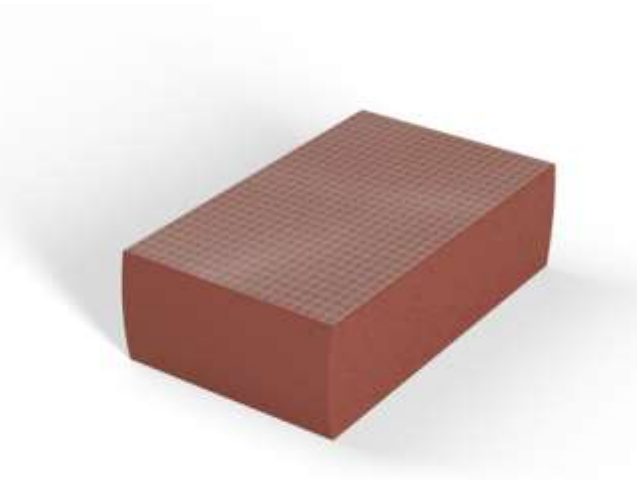
Maximum 60% cable fill in opening of max. 5" diameter
Floor or wall of min. 4-1/2" thick reinforced concrete or any UL Classified Concrete Blocks
C-AJ-0179 Blank opening in solid wall or floor
C-AJ-3370 Cables in solid wall or floor

Dimensions



FF260 Fire Protection Block

UL Classified for cable, pipe or mixed penetrations, as well as blank openings

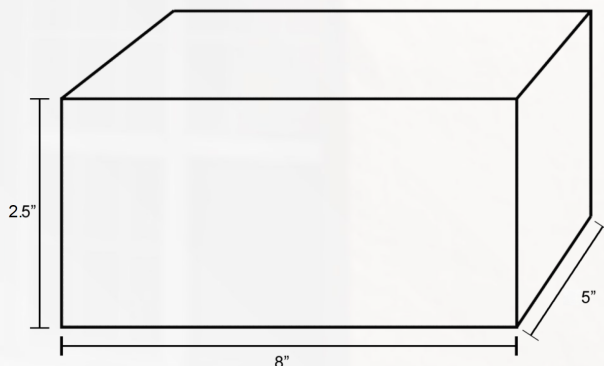


The FF260 Fire Protection Block is made of a rapidly expanding intumescent foam and the **ideal fire barrier for cable, pipe or mixed penetrations, as well as blank openings** in solid floor or ceiling systems. The flexible and lightweight material is suitable for retrofitting installation, as well as new construction and can be used for openings up to 384 in² with a maximum dimension of 32".

Approvals

Cable bundle up to 4" diameter, metal pipes up to 4" diameter optionally glass fiber insulated
Up to 6" x 24" steel or aluminum cable tray with max. 45% fill
Max. opening size: 384 in² with a max. dimension of 32"
C-AJ-01**78** Blank opening in solid wall or floor
C-AJ-41**16** Cable tray with cables in solid wall or floor
C-AJ-41**17** Cable tray with cables in solid wall or floor
C-AJ-8**319** Mixed penetration seal in solid wall or floor
C-AJ-8**320** Mixed penetration seal in solid wall or floor
W-L-00**61** Blank opening in drywall
W-L-41**03** Cable tray with cables in drywall

Dimensions



Key Benefits

- ⇒ Hour fire rated
- ⇒ Easy retroactive installation
- ⇒ **Cost-effective**
- ⇒ Easy Installation
- ⇒ For metallic pipes and cables
- ⇒ For floor or wall of min. 4-1/2" thick reinforced concrete or any UL Classified Concrete Blocks
- ⇒ **UL Classified**



FF365 Fire Protection Sealant

To be used in combination with a TENMAT fire protection product



The FF365 Fire Protection Sealant helps **properly fire rate membrane penetrations in walls and ceilings**. The FF365 is suitable for irregular, hard-to-access, and small penetrations and can be used in combination with other TENMAT products such as the FF260 Blocks, the FF160 Plugs and the FF130E Recessed Light Cover series.

Key Benefits

- ⇒ Fire tested and rated
- ⇒ **Fast and clean work**
- ⇒ Easy retroactive application
- ⇒ Cost-effective
- ⇒ Easy Installation
- ⇒ For metallic pipes and cables
- ⇒ For floor or wall of min. 4-1/2 in. thick reinforced concrete or any UL Classified Concrete Blocks
- ⇒ **Ideal for** small penetration seals, openings with many penetrating elements and openings that are difficult to access or that are irregular
- ⇒ **UL Classified**



Approvals

- C-AJ-0178 Blank opening in solid wall or floor
- C-AJ-0179 Blank opening in solid wall or floor
- C-AJ-1745 Metal pipe or conduit in solid wall or floor
- C-AJ-3377 Cables in solid wall or floor
- C-AJ-3378 Cables in solid wall or floor
- C-AJ-4117 Cable tray with cables in solid wall and floor
- C-AJ-8320 Mixed penetration seal in solid wall or floor



FF360 Fire Protection Foam

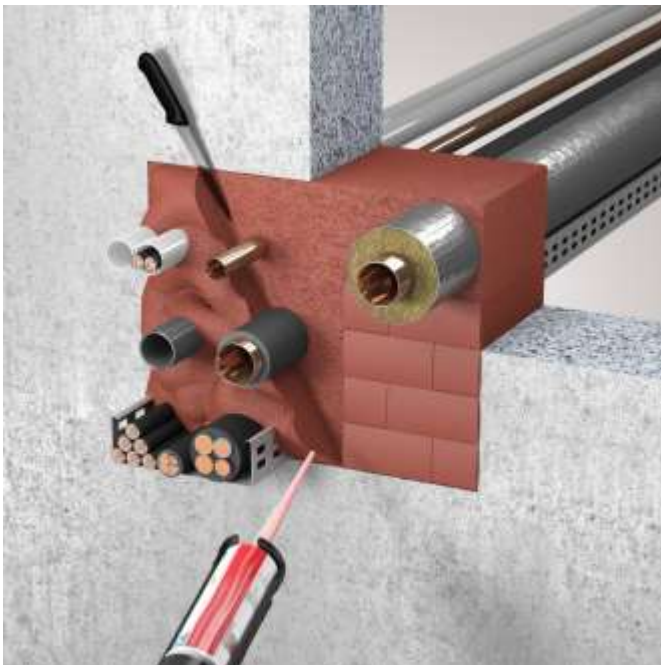
To be used as a single product or in combination with a TENMAT fire protection product



The FF360 Fire Protection Foam is a UL classified, **two-component intumescent foam** that can be used in combination with the FF260 Blocks or FF160 Plugs to seal wall and ceiling openings. FF360 is suitable for irregular or **hard-to-access openings** and can also be used as a **single product solution**.

Approvals

- C-AJ-0178 Blank opening in solid wall or floor
- C-AJ-1744 Metal pipe in solid wall or floor
- C-AJ-3379 Cables in solid wall or floor
- C-AJ-4116 Cable tray with cables in solid wall and floor
- C-AJ-5442 Insulated metal pipe in solid wall or floor
- C-AJ-8319 Mixed penetration seal in solid wall or floor
- C-AJ-8321 Mixed penetration seal in solid wall or floor
- W-L-0061 Blank opening in drywall
- W-L-4103 Cable tray with cables in drywall



Key Benefits

- ⇒ Fire tested and rated
- ⇒ Easy Retroactive Installation
- ⇒ **Cost-effective**
- ⇒ Easy application
- ⇒ Suitable for openings that are difficult to access or that are irregular
- ⇒ Fast and clean work
- ⇒ Suitable for large and medium openings with a mix of penetrating elements
- ⇒ Flexible
- ⇒ Single product solution
- ⇒ **UL Classified**



ENGINEERS IN FIRE SAFETY

TENMAT has changed the way how architects, builders and contractors deal with the problem of fire protection.

TENMAT offers a **unique range** of flexible, lightweight and ready-to-use products and solutions for the most demanding applications.

Our **state-of-the-art**, in-house **R&D Laboratory** and ISO 9001:2015 accredited production facilities have been developing and manufacturing technically superior products for over **100 years** and are capable of designing custom-made solutions for all your fire stopping needs.

TENMAT's ongoing commitment to the development of new products and solutions to meet the latest fire protection standards and applications worldwide has been recognized in 2012 and 2019 by

receiving the highest official award in Great Britain, the prestigious **Queen's Award for Enterprise** in the category Innovation.

TENMAT Passive Fire Protection Products are used in various applications throughout the United States, Canada and the rest of the world: from multi-story apartment buildings, over single-family homes to multi-family dwellings, college dormitories, hotels and assisted living facilities.

TENMAT is the market leader in the production of Fire Rated Light Covers which meet the **International Building Code, NFPA**, as well as the **Uniform Building Code**.

All TENMAT products have been fire tested by independent third party labs such as **UL** and **Intertek**.



CODE COMPLIANCE

COMPLIANT
FIRESTOPPING
TESTED
APPROVED
BUILDING CODE

TENMAT covers are made from intumescent and fire resistant materials which **meet and exceed** the building code requirements.

TENMAT materials have outstanding **firestopping** capabilities and provide a one or two hour fire protection.

Multiple **independent third party laboratories** have tested and approved TENMAT products as outlined by the most stringent **standards and codes**.



TENMAT consists of four divisions Passive Fire Protection, Composite Wear Parts, High Temperature Materials, and Engineering Ceramics.

The TENMAT group is a multinational manufacturer of advanced materials with representation in the USA, France, Italy, Germany, the Czech Republic and the United Kingdom, as well as a global network of resellers and distributors.



TENMAT is committed to the highest standards in customer service and our international staff is looking forward to assist you.

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For further information please contact our Customer Service Department on 1-800-821-3436.

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