



Fire Protection Solutions

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

Leaders in innovation

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.

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

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 has proven to be effective in a wide variety of passive fire protection applications.



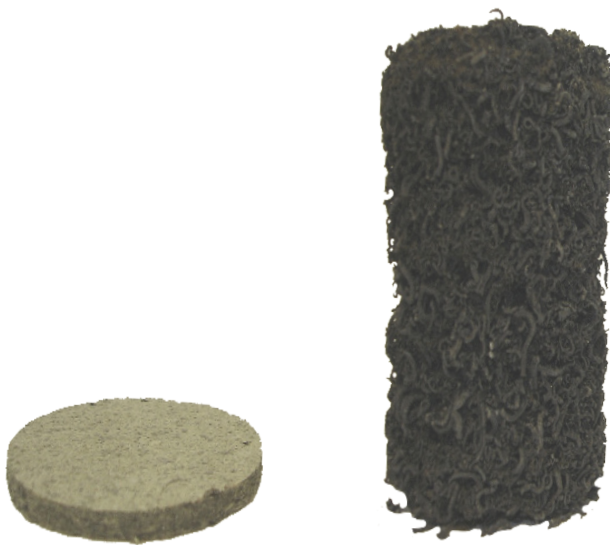
Our Technology

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

Tenmat's 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's intumescent materials have extremely low organic content and zero halogen, resulting in very low smoke emissions.



The Tenmat Solution

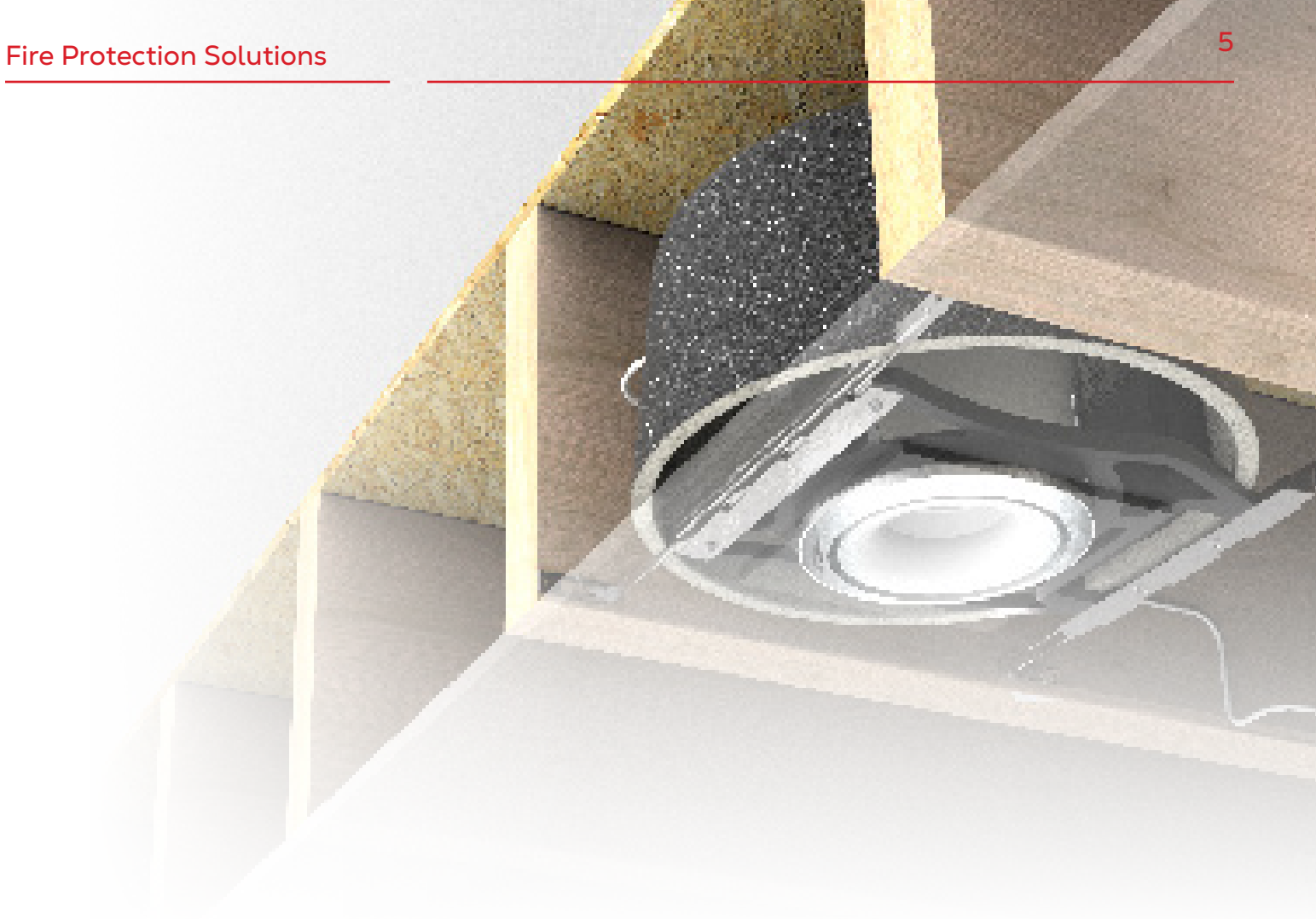


Fits a wide range of light fixtures and trims. We offer the only flexible, lightweight, and fully fire tested enclosures on the market to securely fire rate your recessed lights.

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, Low Profile LED's, Speakers and Troffers, regardless of manufacturer or model.





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."

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.

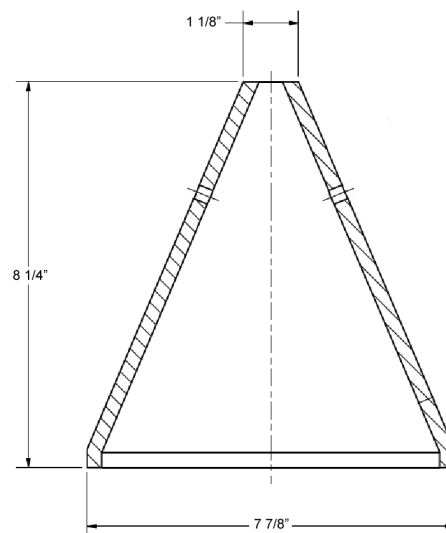
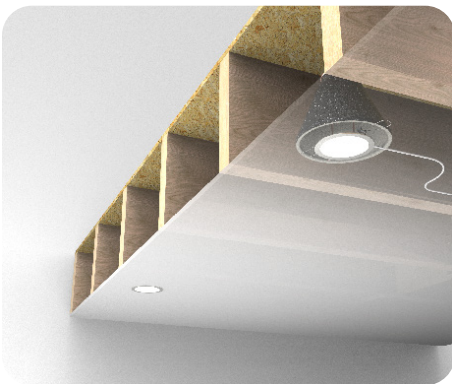
Key Benefits

- 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 fire 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

Approvals



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



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.

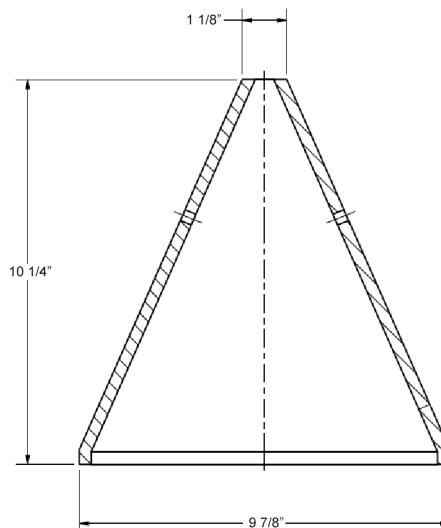
Key Benefits

- Easy Installation - can be fitted in seconds - no screws, drilling or additional sealant required
- 60 minute fire 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-resistance rated floor/ceiling assemblies.



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 enclosure which has been designed to help maintain the integrity of fire-resistance 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.

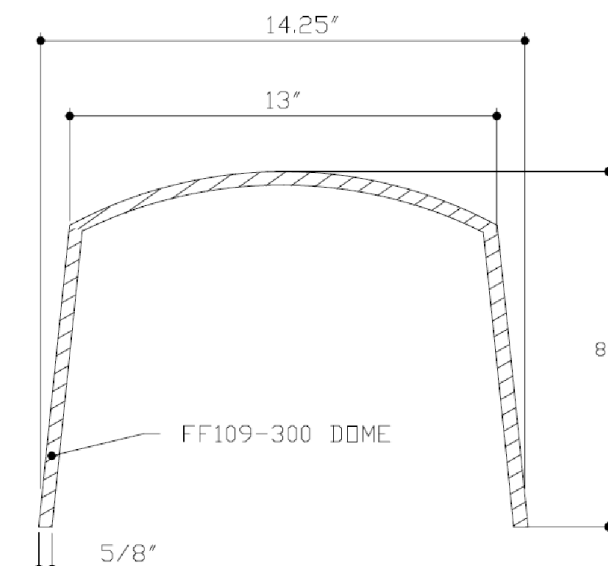
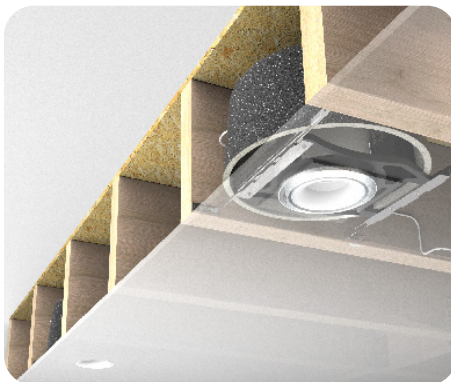
Key Benefits

- 60 minute fire 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
- Maintenance free
- UL Classified

Approvals



UL Classified to maintain the fire rating (1 hour) for the following fire-resistance rated floor/ceiling assemblies: L500 series



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 enclosures 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.

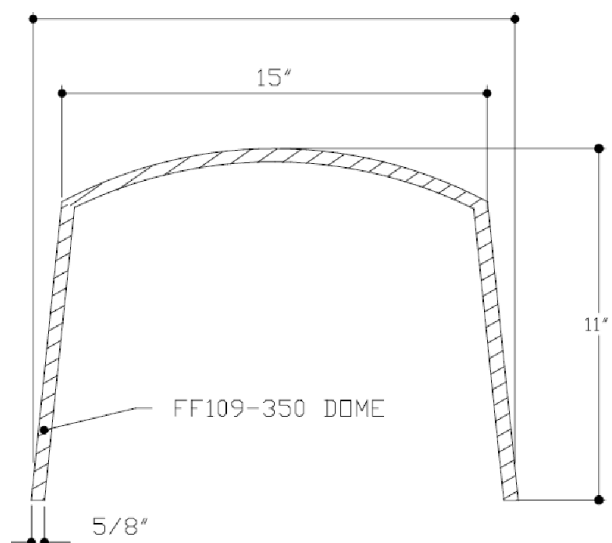
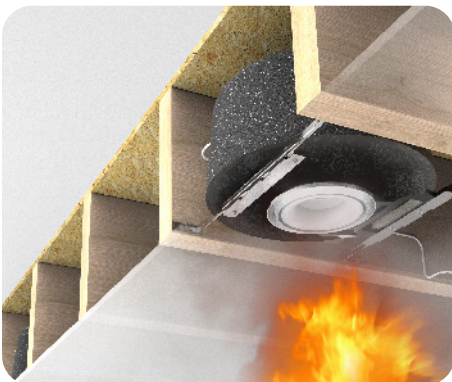
Key Benefits

- 60 minute fire 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
- Maintenance free

Approvals



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



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 fire 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

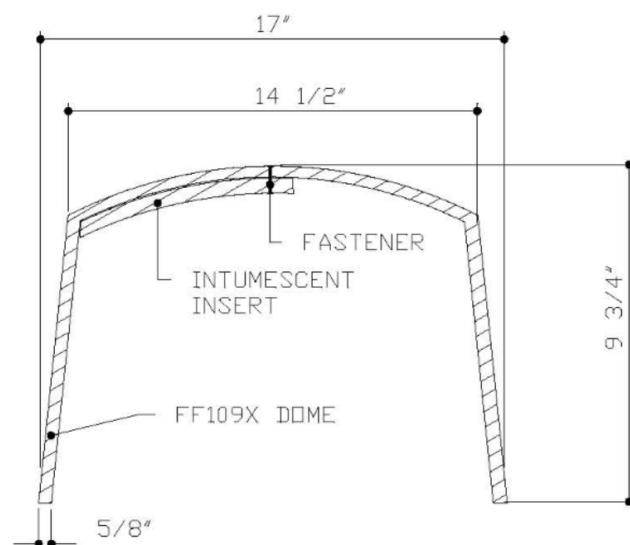
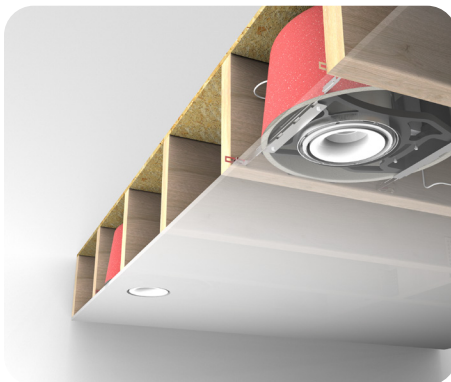
Approvals



UL Classified to maintain fire ratings of up to two hours for the following fire-resistance 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



FF109-FRSC



1 Hour Fire Rated Speaker Cover

The FF109-FRSC 1 Hour Fire Rated Speaker Cover is a dome-shaped intumescent enclosure which has been specifically designed to help maintain the integrity of fire-resistance rated ceilings for one hour when penetrated by in-ceiling loudspeakers, up to 10".

In addition, the sound absorbing properties of the proprietary intumescent material enhances the acoustic performance of the structure for crisper and clearer sound.

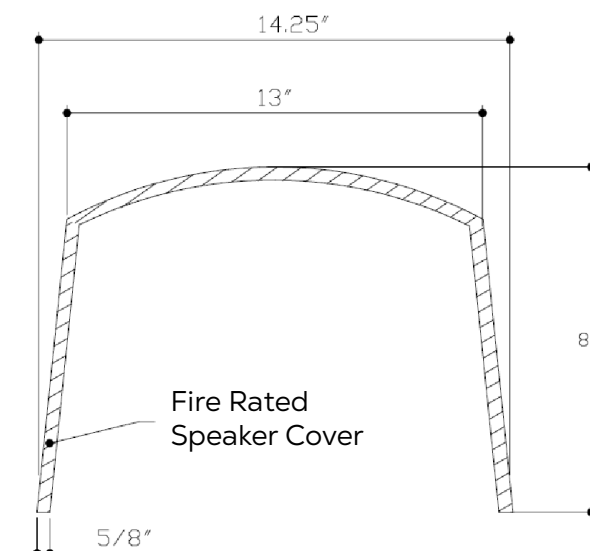
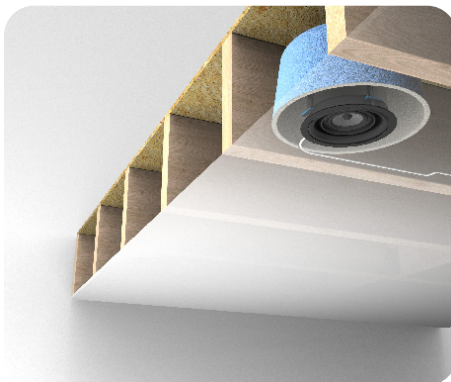
Key Benefits

- 60 minute fire protection
- Enhances the acoustic protection of the ceiling for crisper and clearer sound
- For use in 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
- For ceiling cut-outs up to 10 5/8"
- Easy to remove and re-install for speaker maintenance
- Can be used with a wide variety of speaker manufacturers
- Maintenance free
- Suitable for a wide range of in-ceiling loudspeakers

Approvals



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



FF130 - 2' x 2'



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.

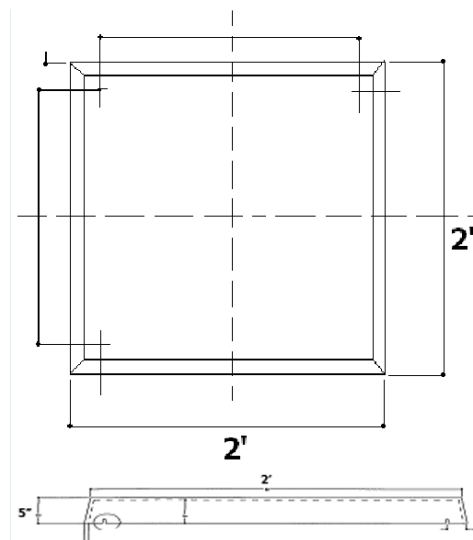
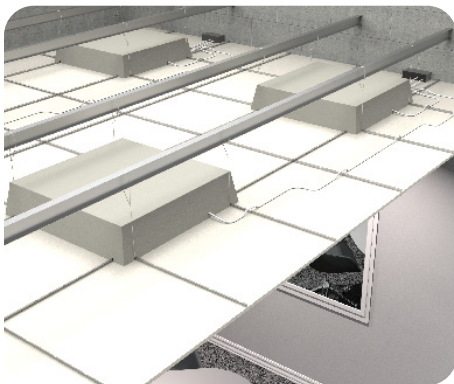
Key Benefits

- 60 minute fire 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
- 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

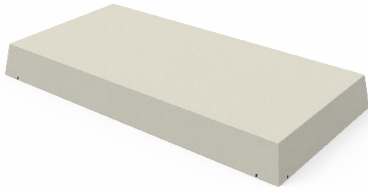
Approvals



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



FF130 - 2' x 4'



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.

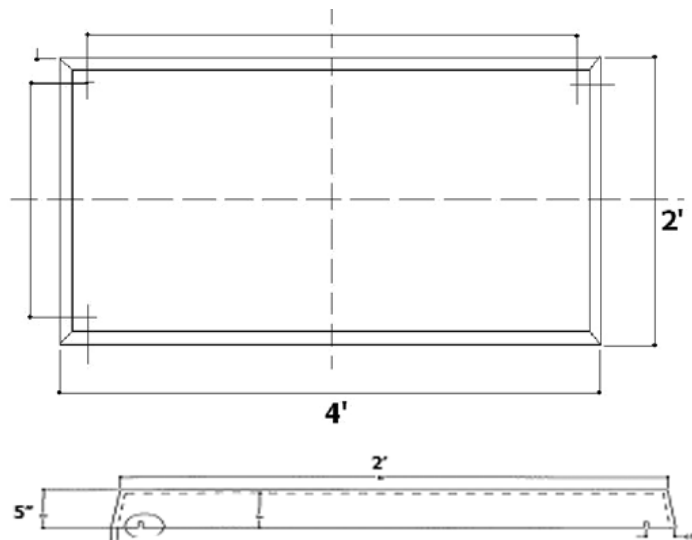
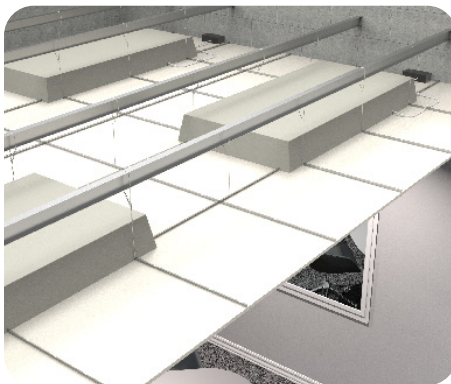
Key Benefits

- 60 minute fire 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
- 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

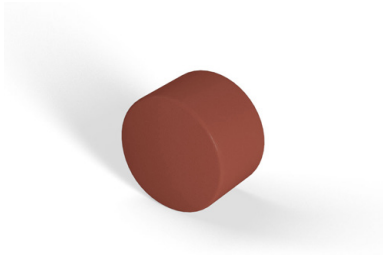
Approvals



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



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

- 120 minute fire protection
- 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

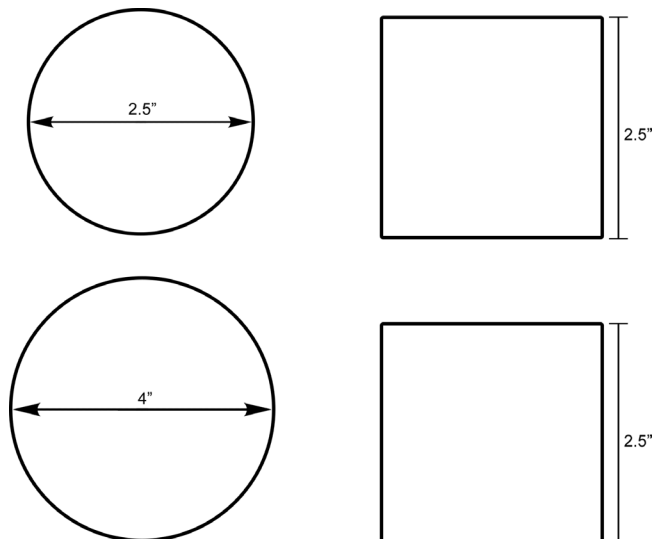
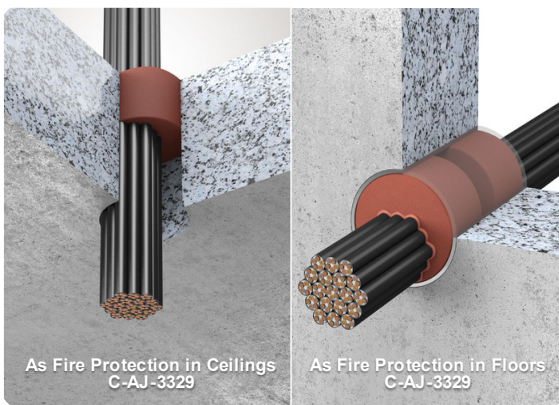
Approvals



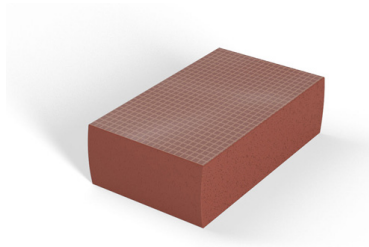
Maximum 60% cable fill in opening of max. 5" diameter

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



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 is 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".

Key Benefits

- 120 minute fire protection
- 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

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-0178 Blank opening in solid wall or floor

C-AJ-4116 Cable tray with cables in solid wall or floor

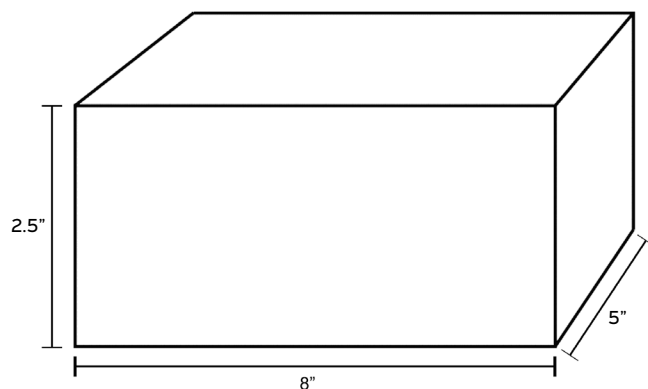
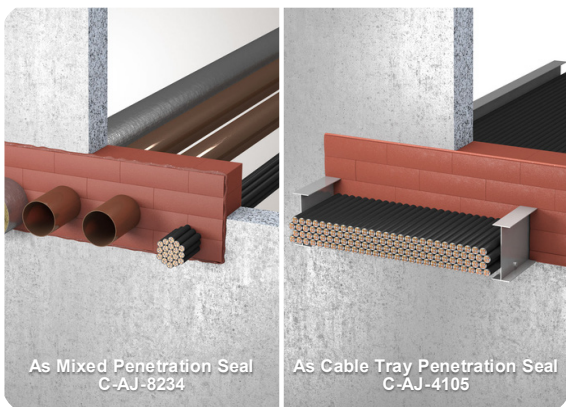
C-AJ-4117 Cable tray with cables in solid wall or floor

C-AJ-8319 Mixed penetration seal in solid wall or floor

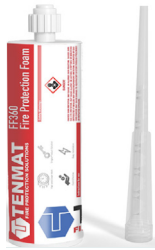
C-AJ-8320 Mixed penetration seal in solid wall or floor

W-L-0061 Blank opening in drywall

W-L-4103 Cable tray with cables in drywall



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. The FF360 is suitable for irregular or hard-to-access openings and can also be used as a single product solution.

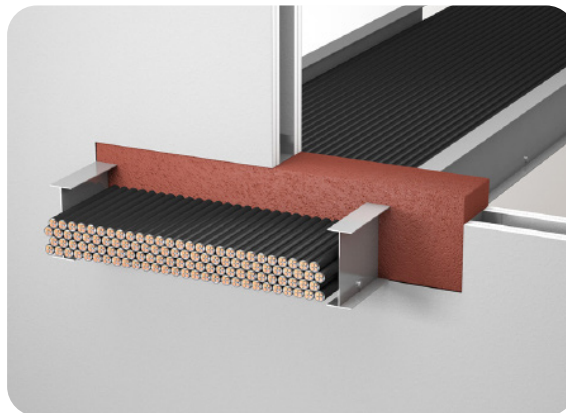
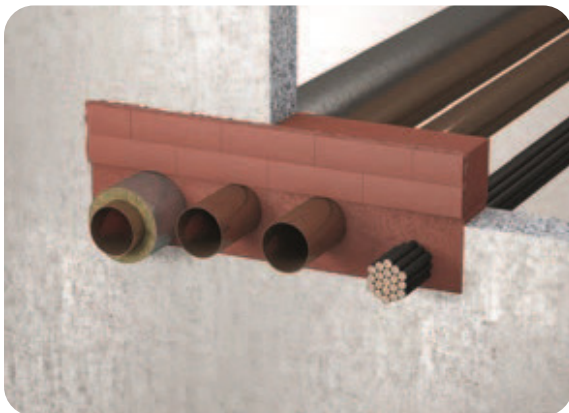
Key Benefits

- 120 minute fire protection
- 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

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



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.

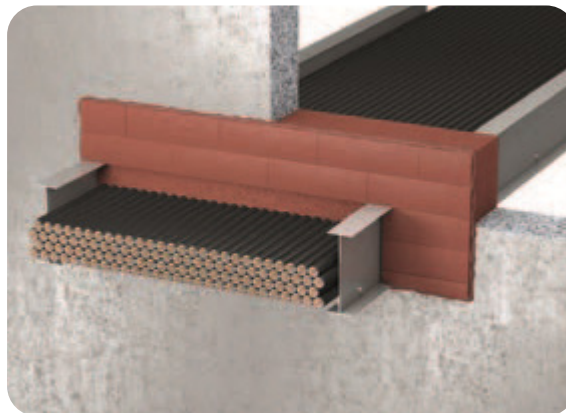
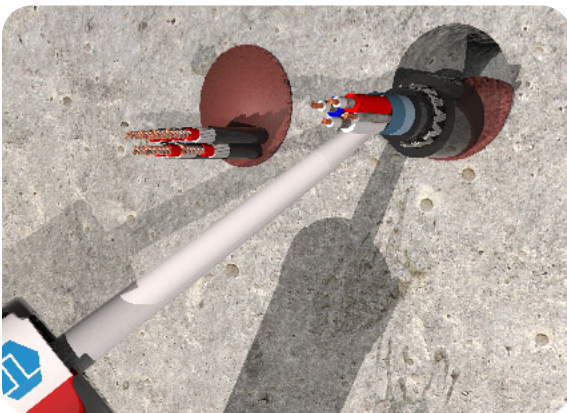
Key Benefits

- 120 minute fire protection
- 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



FF102/50



Fire Block for Ventilated Rainscreen Systems.

Tenmat's Innovative Fire Blocks for Rainscreen Systems are rigid, highly expansive intumescent strips, designed to maintain the open ventilated cavity in normal conditions to suit up to 2" (50mm) air gaps. In the event of a fire, the strips will expand to seal off the cavity and serve as a fire barrier.

The FF102/50 can be mechanically fixed both horizontally and vertically within ventilated cavities behind rainscreen or cladding systems.

Key Benefits

- NFPA285 Fire Tested and Approved
- UL Listed
- ETL Listed (Report Numbers: G103635745, G103778686, G103826705)
- Continuous Free Air Space up to 2" (50mm)
- Allows for air circulation and moisture dissipation
- Quick & Easy Installation
- Expands up to 25 times of its thickness in case of a fire
- Fire & Age Tested

Approvals

ETL Recognized Component that is certified and approved to use in Intertek certified, NFPA 285-rated, ACM panel systems installed over mineral wool insulation

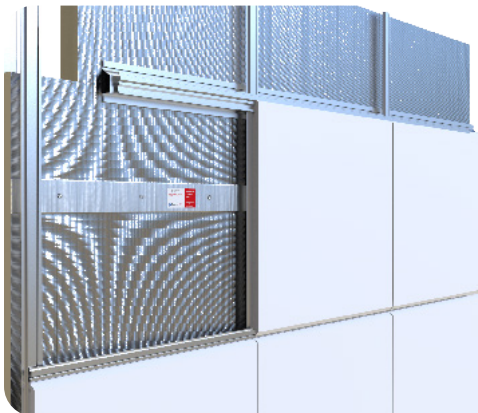
ETL Report Numbers:

G103635745, G103778686, G103826705

UL Classified for use in exterior walls

EXTERIOR WALL SYSTEM COMPONENTS (FWFX)

Up to 2 hour fire tested to standards including: BS476: Parts 20 and 22, EN1363-1: 1999, EOTA TR31 and assessed to TGD19 'open state cavity barriers' to ASFP standards for ventilated façades.

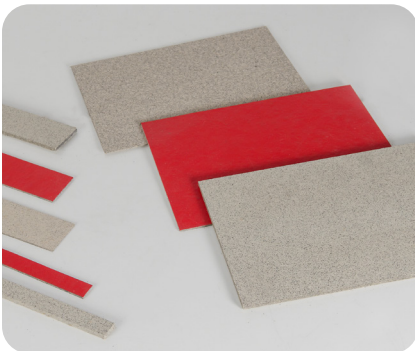


Other Applications



Innovative Passive Fire Protection Solutions

Tenmat FIREFLY® Intumescent materials are technologically advanced fire protection materials used in a wide variety of fire-stopping 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. Available as sheets or strips lengths up to 80" - 0.1" up to 0.23" thicknesses available.



Vacuum Formed Intumescents

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 duct sleeves, or recessed light enclosures.

FF102



Tenmat FIREFLY 102 is a rigid intumescent material that possesses excellent pressure generation and expansion performance.

Tenmat FIREFLY 102 is suited for a wide range of applications including fire seals for door and glazing applications, ironmongery protection, cladding & rain screen cavity fire barriers, construction joints and general gap sealing.

Tenmat FIREFLY 102 is a halogen free graphite based intumescent material which produces a particularly stable and resilient insulating char structure during and after expansion.

Tenmat FIREFLY 102 is available in a variety of thicknesses, from 1.5 mm up to 6 mm*, with or without self adhesive or PVC coatings. It can be supplied in sheets up to 2150 x 1050 mm, or alternatively it can be slit to a variety of widths and lengths within those dimensions.

Technical Data

Property	Units	Typical Value
Density	kg/m ³	924
Tensile Strength	MPa	3.08
Moisture Content	%	3 max
Free Expansion Ratio (@ 400 °C, 15 mins)		27:1
Activation Temperature (under 50 psi load)	°C	200
Pressure Generation Expansion @ 400 °C	Bar	20
Reaction to Fire Classification EN 13501-1		E
Material Approval	Zulassungsnr.	Z-19.11-1033

Dimensions

Standard Dimensions

Thickness (mm)	1.7	2	3	4	5	6*
Thickness with self adhesive (mm)	2	2.3	3.3	4.3	5.3	6.3
Thickness with PVC coating (mm)	2.3	2.6	3.6	4.6	5.6	6.6
Width (mm)	1050	1050	1050	1050	1050	1050
Length (mm)	2150	2150	2150	2150	2150	2150

*Larger thicknesses above 6 mm may be available upon request. Please contact Tenmat for enquiries.

FF104E



Tenmat FIREFLY 104E is a dark grey intumescent paper which generates high expansion and expansion pressure when exposed to fire or heat.

Tenmat FIREFLY 104E is suitable for applications such as door and glazing seals, door hardware and ironmongery protection, damper seals, gap sealing or a variety of gasketing applications.

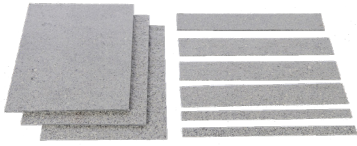
Technical Data

Property	Units	Typical Value
Density	kg/m ³	820
Moisture Content	%	131
Free Expansion Ratio (@ 400 °C, 15 mins)		23:1
Activation Temperature (under 50 psi load)	°C	200
Pressure Generation Expansion @ 400 °C	Bar	11
Reaction to Fire Classification EN 13501-1		E
Material Approval	Zulassungsnr.	Z-19.11-1721

Dimensions

Standard Dimensions						
Thickness (mm)	0.5	0.8	1.0	1.3	1.8	2.1
Self-Adhesive Backing	No	Yes	No	Yes	No	Yes
Width (mm)	560	560	1120	1120	1120	1120
Length (m)	100	100	100	100	50	50

FF107



Tenmat FIREFLY 107 is an exceptionally powerful intumescent which combines fast reaction with high expansion and pressure generation.

Tenmat FIREFLY 107 is suitable for a wide range of applications including penetration seals for pipes, fire wraps, fire collars, fire blocks for ventilated rain screens, and other construction joint and gap sealing applications.

Tenmat FIREFLY 107 is available in a variety of thicknesses from 3mm up to 6 mm* in sheets up to 2150 x 1050 mm, or alternatively it can be slit to a variety of widths and lengths within those dimensions. The material can be supplied with self adhesive backing.

Technical Data

Property	Units	Typical Value
Density	kg/m ³	634
Moisture Content	%	3 max
Free Expansion Ratio (@ 400 °C, 15 mins)		30:1
Activation Temperature (under 50 psi load)	°C	180-200
Pressure Generation Expansion @ 400 °C	Bar	26
Reaction to Fire Classification EN 13501-1		E
Material Approval	UL	R39638

Dimensions

Standard Dimensions

Thickness (mm)	3	4	5	6*
Thickness with self adhesive (mm)	3.3	4.3	5.3	6.3
Thickness with PVC coating (mm)	3.6	4.6	5.6	6.6
Width (mm)	1050	1050	1050	1050
Length (mm)	2150	2150	2150	2150

*Larger thicknesses above 6 mm may be available upon request. Please contact Tenmat for enquiries.

FF108



Tenmat FIREFLY 108 is a low density, compressible intumescent material which exerts relatively low pressure and free expansion characteristics. The low free expansion ensures an extremely solid and stable char structure is produced.

Tenmat FIREFLY 108 can be vacuum formed into a variety of shapes as well as being produced in sheet form. It is suited to applications including expansion joint and linear gap seals, cable basket protection, fire stop blocks and other construction joint applications.

Tenmat FIREFLY 108 can be supplied in sheet form up to 610 x 1000mm or alternatively cut into strips within those dimensions. However the main benefit is that the product can be vacuum formed into a variety of shapes to suit client requirements and specification which allows the expansion direction to be controlled.

Technical Data

Property	Units	Typical Value
Density	kg/m ³	216
Moisture Content	%	3 max
Free Expansion Ratio (@ 400 °C, 15 mins)		3.58:1
Activation Temperature (under 50 psi load)	°C	200
Pressure Generation Expansion @ 400 °C	Bar	5.0
Age Testing (30 years accelerated)		Yes

Dimensions

Standard Dimensions

Thickness (mm)	10	20	30	40	50	60
Width (mm)	610	610	610	610	610	610
Length (mm)	1000	1000	1000	1000	1000	1000

*Custom vacuum formed shapes are available upon request.
Please contact Tenmat for enquiries.

FF109



Tenmat FIREFLY 109 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.

Tenmat FIREFLY 109 is a lower density material with lower expansion characteristics; this allows the material to function in a controlled manner without the need for additional restraints. Applications include pipe sleeves, door inserts, cable basket trays, vent duct sleeves, and recessed light covers.

Tenmat FIREFLY 109 is available supplied in 610 x 1000 mm sheets with 10-60 mm thickness, or alternatively it can be cut into strips or vacuum formed into various shapes. FF109 can be covered with aluminum foil, latex coated, or encapsulated in polythene.

Technical Data

Property	Units	Typical Value
Density	kg/m ³	200
Moisture Content	%	3 max
Free Expansion Ratio (@ 400 °C, 15 mins)		5:1
Activation Temperature (under 50 psi load)	°C	200
Thermal Conductivity ISO 8301:1991 and BS EN 12667: 2001	W/mK	0.0343
Reaction to Fire Classification EN 13501-1		E
Material Approval	UL	R25019

Dimensions

Standard Dimensions

Thickness (mm)	10	20	30	40	50	60
Width (mm)	610	610	610	610	610	610
Length (mm)	1000	1000	1000	1000	1000	1000

*Custom vacuum formed shapes are available upon request.
Please contact Tenmat for enquiries.

Engineers in Fire Safety



Tenmat has changed the way 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 innovation category.

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.



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 fire-stopping 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.

"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."



Notes

Fire Protection Solutions

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.

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



Tenmat

**Passive
Fire
Protection**