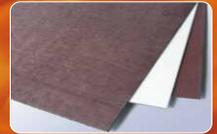
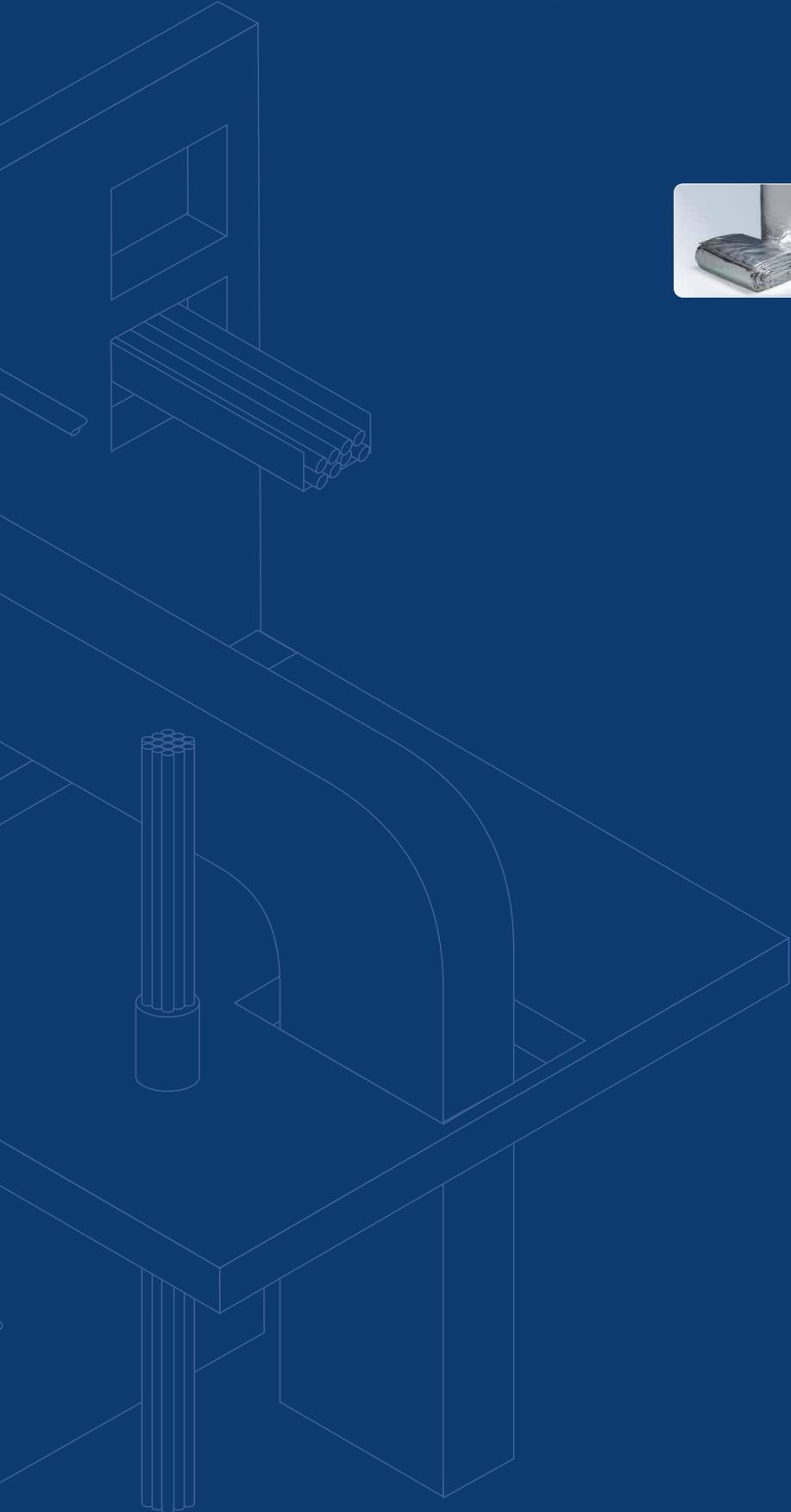


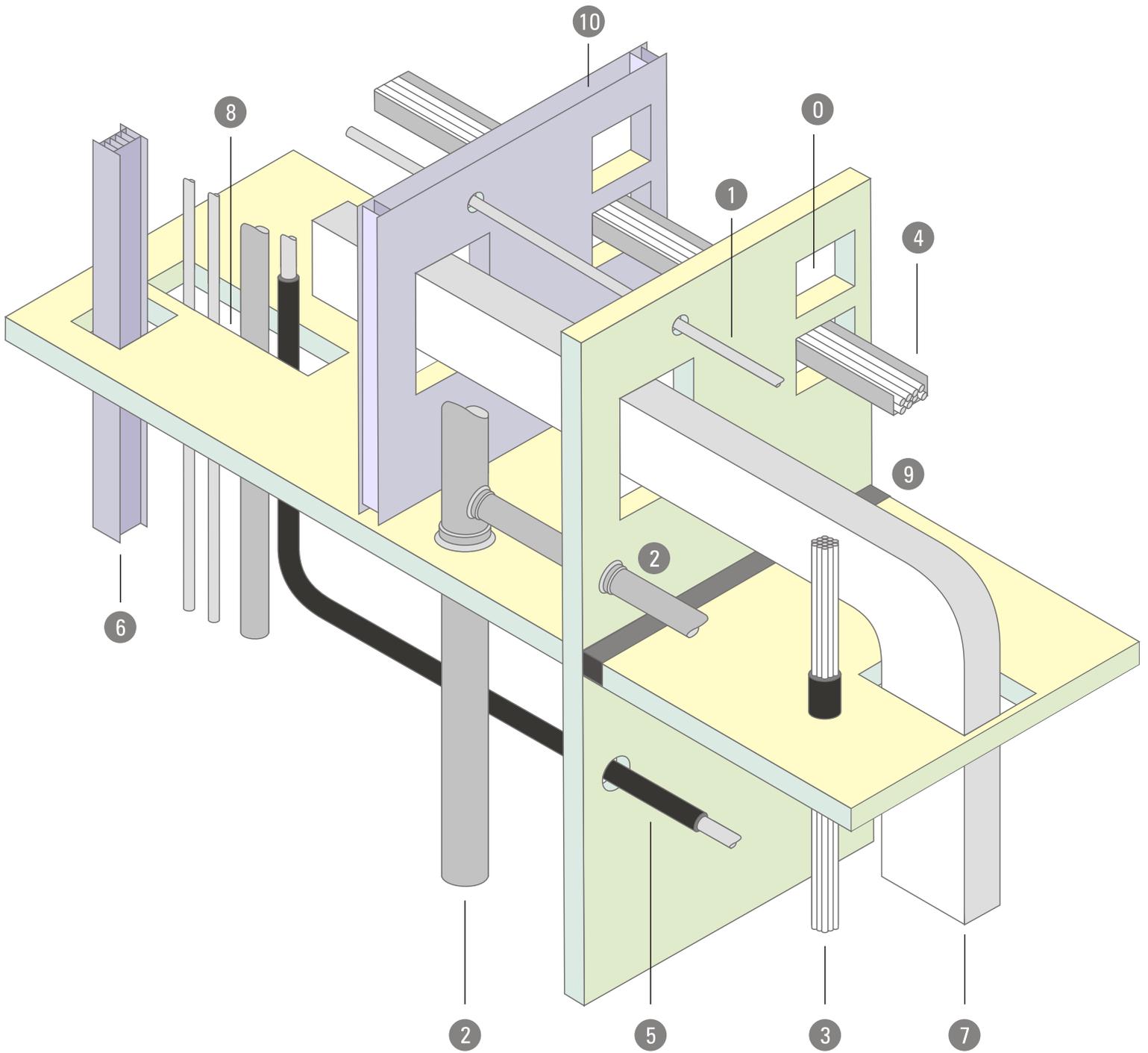
INCA[®] Firestop System



INCA Tech Fire Wall



Applications of INCA[®] Firestop System





INSS2460 Silicone Fire Barrier Sealant

INSS1440 Fire Barrier Caulk

INCA have developed two kinds of fire barrier sealant designed for sealing gaps between compartments, pipe or cable penetrations in fire walls or floor, sealing joints, around doors and window frames in high fire rated structures. INSS2460 is used for where high flexibility and good waterproof is needed. INSS1440 is used for up to 3 hours fire rating in special installations. When INCA fire barrier sealant is exposed to 1×10^6 Gy (1×10^8 rad) neutron and gamma radiation unit, it can still perform good firestop function.

Both products shows excellent fire performance with high expansion rate and good heat insulation properties. Good adherence on most materials like concrete, stone, plaster, metals, glass, plastics etc. Totally asbestos and halogen free. Easy installation.



Application

Installed correctly INSS2460 and INSS1440 can protect up to 3 hours and comply with UL 1479 (T-rating and F-rating), CNS14514 (A-Class and B-Class) and similar test standards. Certified by passing UL inspection. INSS2460 have good plasticity and weatherproof characteristics. INSS1440 is easy to wash away with water before drying and contains no silica gel. Both of them are ready to use.

Test

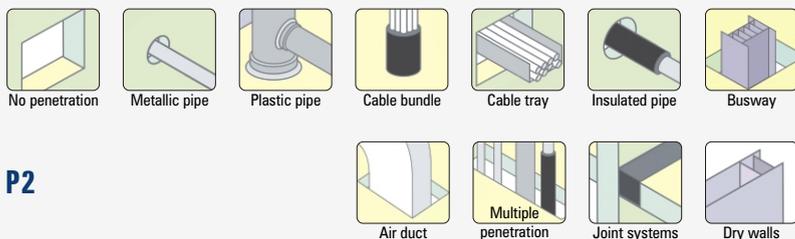
- UL1479, 3Hr, T&F Rating
- UL2079 (for INSS2460), 3Hr
- CNS14514, 3Hr, Class A&B
- CNS6532, Class 1
- ASTM E662

Specification

	INSS2460
Density	Approx. 1.15~1.25g/cm ³
Color	Grey / White
Operating temp	-25~80°C
Tack-free time	Approx. 30 min.
Time for full cured	7 ~ 14 days
Hardness (full cured)	Shore A30° ~ 40°
Elongation	>200%
Storage temp.	10~30°C
Package	300ml/tube; 25Tubes/Box

	INSS1440
Density	1.55±0.1g/cm ³
Color	Grey / White
Operating temp	5~40°C
Tack-free time	Approx. 30 min.
Time for full cured	7 ~ 21 days
Expansion rate	3~5 times
Storage temp.	10~30°C
Package	300ml/tube; 25Tubes/Box

Applications





FM011 Moldable Firestop Putty



FM012 Firestop Putty

INCA firestop putty is a one-part, elastomer paste with unique intumescent property against the passage of flame, noxious gas and smoke. It is used for protecting the penetrations, such as cable bundles, conduits, metallic pipe and air duct with 3 hours fire rating. When INCA firestop putty is exposed to 1×10^6 Gy (1×10^8 rad) neutron and gamma radiation unit, it can still perform good firestop function.

Application

Use to seal the construction gaps, cables, insulated pipes, electrical conduit and metallic pipes penetrations on fire rated walls.

Use to seal the gaps, pipes and cables penetrations on floors.

Specification

	FM011
Density	1.25 ~ 1.35g/cm ³
Color	Black
Expansion temp.	220°C
Volume Expansion	>400%
Package	20Kgs/Box

Test

UL1479, 3Hr, F Rating

CNS14514, 3Hr, Class B

ASTM E662

Features

High intumescent when exposes in fire condition

Good plasticity, easy to install

Halogen free and no asbestos

No organic solvent be volatilized

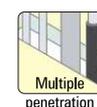
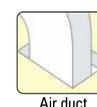
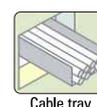
FM011 will not coagulate, which can be reusable

FM012 is non- sag

	FM012
Density	1.35 ~ 1.45g/cm ³
Color	Red
Time for full cured	7~14 days
Operating Temp.	5~40°C
Storage Temp.	10~30°C
Package	5Kgs / 20Kgs



Applications





INFS0812 Intumescent Strip

SSCI Cramping Collars

INFS0812 Intumescent Strip is a fire resistive elastomeric strip with Aluminum foil on one side. SSCI Cramping Collars is a stainless steel collar work in conjunction with INFS0812 Intumescent Strip to tightly seal an opening left by a burned away plastic pipes for preventing the spread of flames, smoke and other by products of combustion. It is available in convenient strips for quick and easy installation. The high expansion of INFS0812 maintains a tight seal preventing the spread of fire, smoke and other by products of combustion.

Application

Can be used on the through-penetration materials including plastic pipe and insulated metallic pipe.

Features

- High intumescent rate and heat insulation
- Quick expansion to tightly seal around the penetration items
- Can be cut to fit irregular shapes
- Easy to install, size adjustable

Specification INFS0812

Available size	5mm*60mm*2M
Expansion rate	≥ 20 times
L.O.I.	≥ 40

Specification ssci

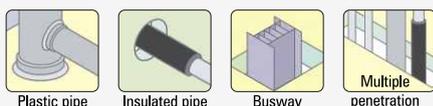
Nominal size of pipe	Intumescent strip layers	Collar depth (mm)	Number of fixing tabs
~ 2"	1	60	3
3"	2	60	3
4"	2	80	4
5" ~ 8"	3	120	6
9" ~ 12"	4	150	8

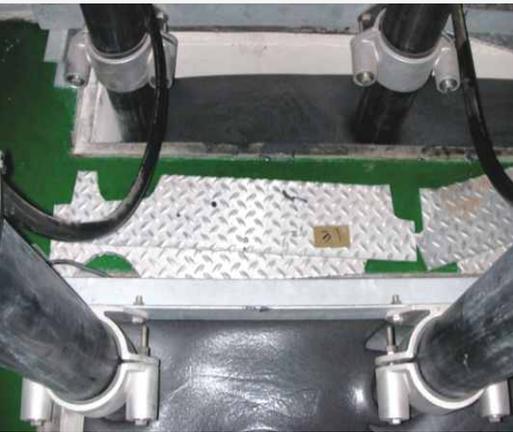
Test

UL1479, 3Hr, T & F Rating
CNS14514, 3Hr, Class A & B
ASTM E662

Applications

P4





US150 / US110 Fire Barrier Foam

Fire Barrier Foam is a two-part, medium-density foam supplied as A and B liquid components, which is designed to seal large opening and multiple penetrations, such as cable bundles, cable trays and metallic pipes. Before foaming, the A and B mixture is liquid type with good fluidity, which is very suitable for sealing the opening contain multiple penetration items. Furthermore, when Fire Barrier Foam is exposed to 1×10^6 Gy (1×10^8 rad) neutron and gamma radiation unit, it can still perform good firestop function.

Application

For sealing construction openings contain single or multiple penetrations through floor slabs, walls and other fire-rated building partitions and assemblies. Can be used on concrete or masonry.

Features

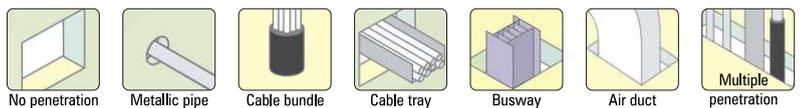
- With good fluidity before foaming
- Good for multiple penetrations opening
- Intumescence when heated
- Excellent resistance to fire consumption
- Without halogen and asbestos
- Durable : do not need maintenance

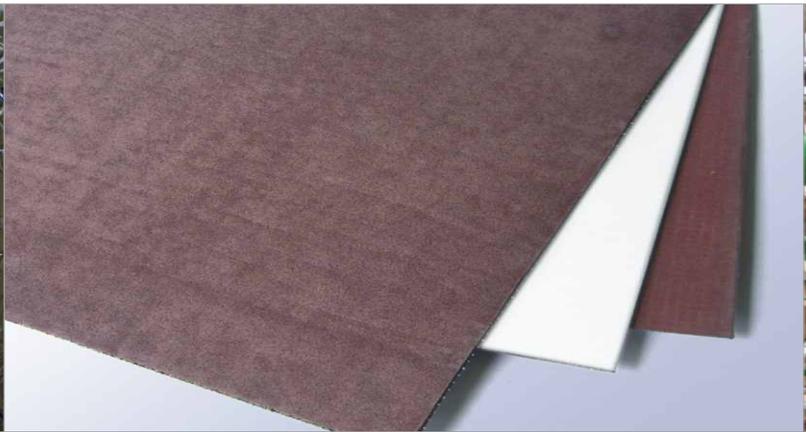
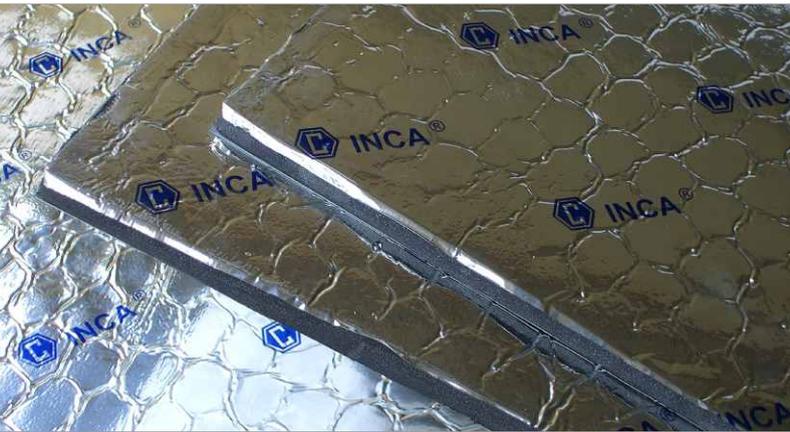
Test

- UL1479 : 2 Hr, T & F Rating
- UL2079, 3Hr
- CNS14514, 3Hr, Class A&B
- FAR smoke and toxicity test standard ABD0031
- ASTM E662

	US150		US110	
	Part A	Part B	Part A	Part B
Color	Black	Yellowish	charcoal gray	brown
Packing	14Kg/Pail	6Kg/Pail	20Kg/Pail	20Kg/Pail
Mixing ratio (by weight)	A:B = 7:3		A:B = 7:4	
Foaming time	1 ~ 5 min.		1 ~ 5 min.	
Optimum foaming temp.	20°C ~ 30°C		20°C ~ 30°C	
Time for full cure	24 Hours		24 Hours	
Foam rate	Approx. 2.5 ~ 4 times		Approx. 5 ~ 7 times	
L.O.I.	≥ 32		≥ 32	
Storage temp.	15 ~ 25°C		$\leq 25^\circ\text{C}$	
Combustion expansion rate	4 ~ 10 times		2 ~ 5 times	

Applications





Firestop Sheet

FP-02

FP-04 / FP-04⁺

INCA Firestop Sheet is a fire resistant composite system basically contains an intumescent layer bonded on one side to a metal sheet. INCA Firestop Sheet is designed to seal larger openings to protect penetrations through fire-rated walls and floors. The intumescent material will expand rapidly for against the passage of flame, noxious gas and smoke. When INCA firestop sheet is exposed to 1×10^6 Gy (1×10^8 rad) neutron and gamma radiation unit, it can still perform good firestop function.

Application

For sealing larger openings to protect penetrations through fire rated walls or floors.
 For shielding cables, cable tray, piping, conduit and busway
 Large opening penetrated by various cables or materials
 Can be installed with Firestop Putty, Fire Barrier Sealant or Intumescent Strip for increasing the performance of fire resistance

Features

Excellent obstruction to flame, noxious gas and smoke
 Excellent resistance to fire consumption
 Easy to cut and install, suitable for large openings and most construction materials
 Without halogen and asbestos
 Stable; do not need maintenance

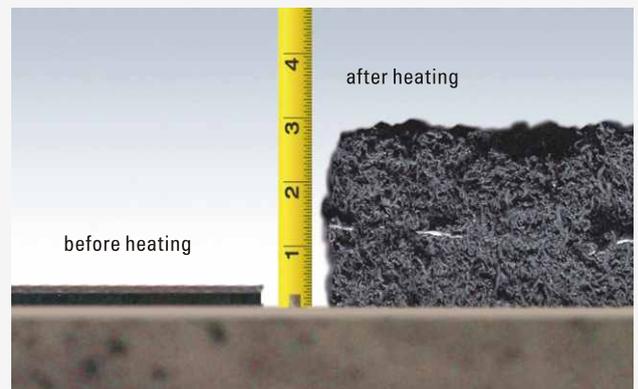
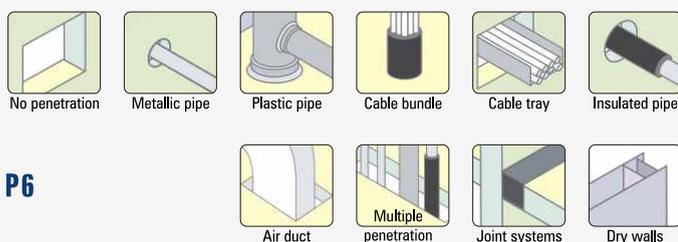
Specification

	FP-02	FP-04	FP-04 ⁺
Thickness	7.7±1.3 mm	1.0~1.2mm	>2mm
Expansion rate	5 ~ 10 times	≥ 10 times	5 ~ 10 times

Test

- UL 1479, 3Hr, T&F Rating
- CNS 14514, 3Hr, Class A&B
- ASTM E662

Applications





FB01-15 Fireproof Blanket

INCA Fireproof Blanket FB01-15 is a ceramic fiber blanket encapsulated with a scrim-reinforced foil. The good thermal insulation properties of FB01-15 can be used to protect air duct, cable trays etc. in combination with other INCA products for passive fire protection. When Fireproof Blanket is exposed to 1×10^6 Gy (1×10^8 rad) neutron and gamma radiation unit, it can still perform good firestop function.

Application

INCA Fireproof Blanket FB01-15 can be easily installed to wrap vent ducts, metallic conduit and cable tray. INCA Fireproof Blanket FB01-15 provides protection reducing external flame propagation and smoke generation.

Features

- Good insulation from heat
- Lightweight and with high flexibility for easy installation
- Good fireproof performance
- Without halogen and asbestos
- Stable; do not need maintenance

Specification

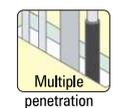
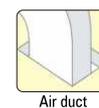
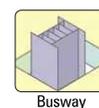
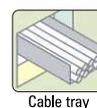
	FB01-15
Thickness	13mm (0.5")
Width	570~600mm
Length	7200mm
Density	128kg/m ³ (8P)

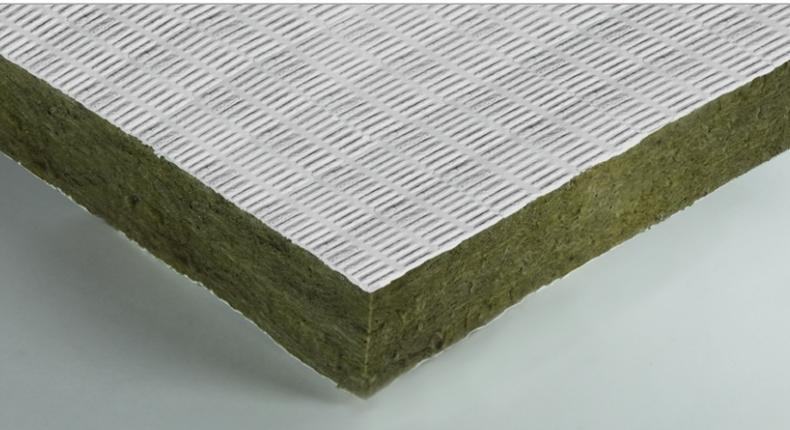
Test

UL1479, 3 Hr, T Rating
CNS14514, 3 Hr, Class A
ASTM E662



Applications





FP05 Fire Batt

DC309 Cable Coating

FP05 Fire Batt is a 50mm thick high-density mineral fiberboard coating with **DC309 Fireproof Paint** as a fire barrier system, which can reach up to 3 hours fire rating. In case of fire, the coated surface of INCA Fire Batt will expand for 30 times for preventing the spread of fire and smoke.

Application

For sealing construction openings contain single or multiple penetrations through floorslabs, walls and other fire-rated building partitions and assemblies.
As a permanent fire barrier to seal cable bundles or cable trays.
Good for using on lightweight dry wall

Features

Excellent resistance to fire consumption
Good for multiple penetration openings
Intumescence when heated
Without halogen and asbestos
Durable : do not need maintenance
Not using for heavy loading
Soundproof

Specification

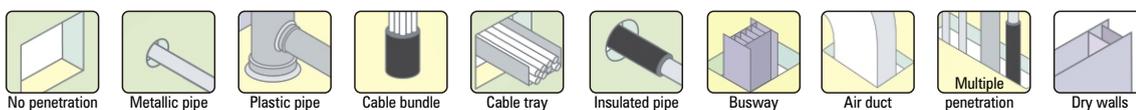
	FP05
Color	White
Size	1200X600X50mm
Density	≥ 180Kg/m ³
Bending strength	≥ 0.1Mpa
Package	4Pcs/Box

	DC309
Density	1.2 ~ 1.4
Viscosity	20000 ~ 30000cps (25°C), adjustable
Storage temperature	5°C ~ 30°C
Curing time	Dry to touch after 0.5 hour; 7 days for fully cured.
Package	20Kgs/Pail

Test

GB23864-2009 2Hr Rating
UL 1479 3Hr Rating
ASTM E84
ASTM D5116
ASTM E662-2001 & FAR25.853.1995

Applications





CFS01 INCA Mortar

INCA Mortar contains formulated rapid harden gypsum and cement compound. After mixing with water, INCA Mortar can provide convenient workability, good strength and fire resistance. In case of fire, INCA Mortar with 2 hours fire rating can prevent the passage of fire, smoke and poison gas.

Application

For cable bundles and cable trays systems of fire rated through-penetration wall or floor

Features

- Light, low density
- Without halogen and asbestos
- Paintable
- Seal up and airtight after curing
- Ease to use
- Increase strength of construction
- Durable for 30 years

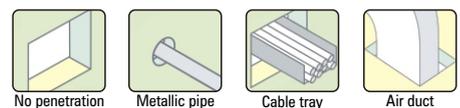
Specification

Color	Gray
Density	$\leq 2.0 \times 10^3 \text{ kg/m}^3$
Mixing ratio	Mortar : Water = 1.6:1.0 (Base on different application, the ratio is adjustable. The mixed mortar must be applied within 15 minutes)
Initial cured time (min.)	$10 \leq t \leq 45$
Strength (Mpa)	$0.8 \leq R \leq 6.5$
Resistance of corrosion	No corrosion after 7 days
Resistance of water	No swell and crack after 3 days
Resistance of grease	No swell and crack after 3 days
Resistance of moisture	No crack and chalk after 120 hours
Resistance of freeze-thaw cycle	No crack and chalk after 15 times
Storage	Stored in the cool and dry places; use it up ASAP after open
Package	20Kgs/bag

Test

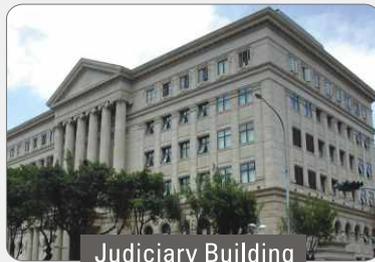
GB23864-2009 2Hr Rating
ASTM E662-2001 and FAR25.853-19

Applications



INCA[®] Firestop System

International Carbide Technology Ltd CO (INCA Tech) was established in 1998, mainly invested by CSC Group (China Steel Corporation). INCA Tech is one of leading manufacturers and exporters specialized in Passive Fire Protection Products in Taiwan. INCA Firestop System is integrated by a complete series of passive fire protection products, which are high fire resistant rated, low smoke, halogen free, non-dripping and environmental friendly.



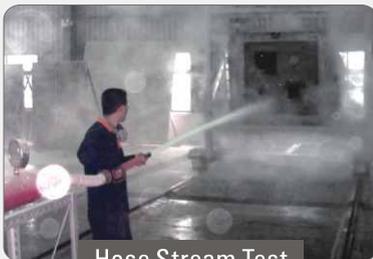
Judiciary Building



High Speed Railway Station



Fire Test



Hose Stream Test



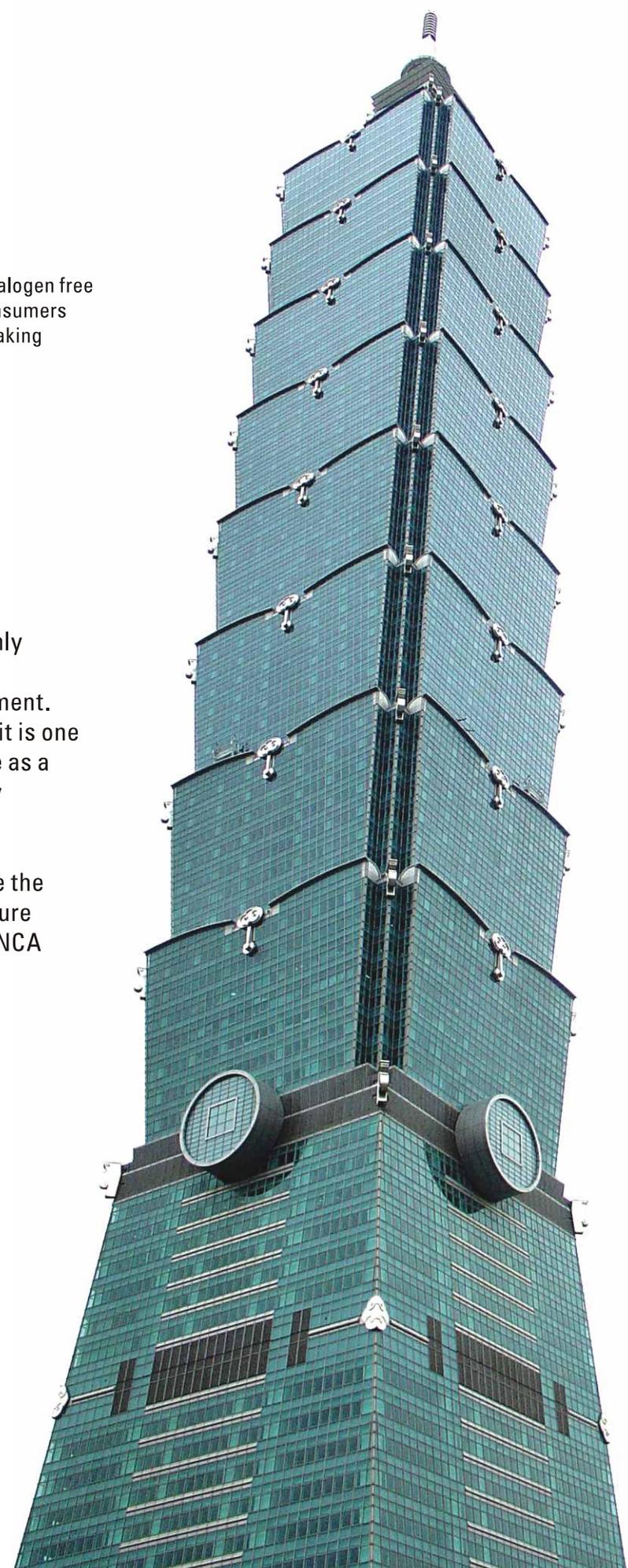


Mission

- Innovation
- Non-toxic · halogen free
- Caring for consumers
- Advantage making

INCA Firestop System is developed mainly based on EG (expandable graphite), that is harmless to human health and the environment. Based on several independent test results it is one of the less harmful substances you can use as a flame- and/or fire retardant with the "today knowledge".

The consumers of firestop products have the right to demand the simplest and most secure solutions on the most difficult problems. INCA Tech can serve the consumers well!





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