

Cable Fire Protection
PYROMENT[®]-KVB2000 + W



Preventive fire protection with PYROMENT®-KVB2000

PYROMENT®-KVB2000, a flexible cable wrapping system from G+H Insulation, is a solution in the field of protective fire protection for electrical cables and cable systems. The fire protection wrap, which has been approved by the German Institute of Construction Technology, reliably prevents spreading of fire in the case of overheating or a short circuit. In addition to the outstanding protection factor, PYROMENT®-KVB2000 also impresses with its ease of use, flexibility and its low surface weight.



PYROMENT®-KVB2000 is a full cable wrap for indoor use. The system inhibits the outbreak of cable fires and delays functionality loss of electrical cables when fires do occur. At the same time, the cable wrap confines the build-up of toxic and corrosive combustion gases by reducing the burnout of cable insulation.

For electrical lines (cables) or wiring installations (cable systems) wrapped in fire protection fabric, it was demonstrated as part of the application approval that

- if exposed to fire from the outside, the requirements for fire resistant building materials (building material class DIN 4102-B1) are fulfilled or
- in the event of spontaneous combustion of electrical lines or cable systems due to short-circuiting or overheating, fire initiation is impeded and fire propagation is retarded.

Since April 2007, PYROMENT®-KVB2000 has been approved by the German Institute of Construction Technology for all cable types and systems.

The product is delivered with an insulation generating material on both sides of the backing fabric which, when heated, forms a heat and smoke-resistant foam barrier.

With this two-fold protection the cable wrap fulfills a dual function: Both inside protection – for example from cable overheating – and outside protection when, for example, the building is on fire.

The handling of the material is extremely simple. PYROMENT®-KVB2000 bands are about one millimeter thick and as flexible as rubber strips. During installation, the material is applied overlappingly directly around the cables or cable ducts that are to be protected. The material is fastened using inflammable clips, wires or tape.



indoors

Approvals

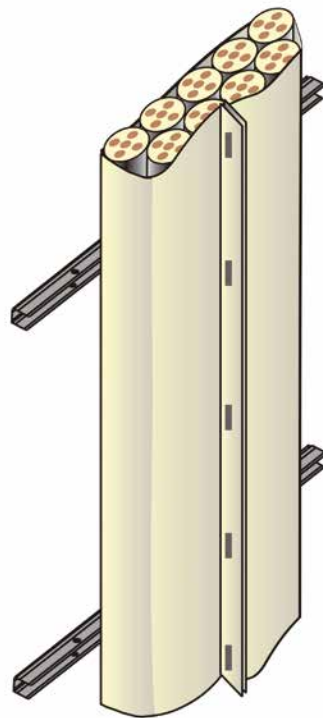
- Material approval
no. Z-19.11-615
- System approval
no. Z-56.217-3547



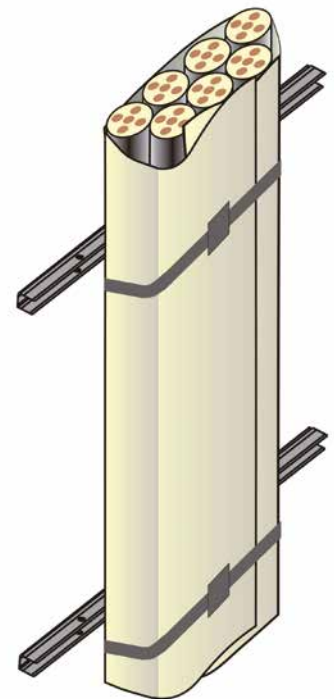
PYROMENT®-KVB2000 can be applied horizontally and vertically in any imaginable geometry. With the tight-fitting installation following the route of the cable, the wrapping offers maximum security in a minimum of space. When installed properly, damage to cable lining, insulation or carrying systems is impossible. Due to the low surface weight of approx. 1,200g/m² no additional hanging or support is necessary. Once installed, PYROMENT®-KVB2000 dissipates heat well, making ventilating brick superfluous. In addition to its application in building and industrial technology, PYROMENT®-KVB2000, because of its dust-free installation, is also suitable for clean rooms.

Whereas the disadvantages of traditional cable ducts quickly become obvious in tight spaces and with heavy concentration of cables, the PYROMENT®-KVB2000 is able to effectively protect constricted areas and those difficult to reach. Subsequent installation for cable ducts that have already been installed can be undertaken at any time with no difficulties. There are no limits with regard to the size of the cable and cable system or with regard to the permissible amount of cables. The

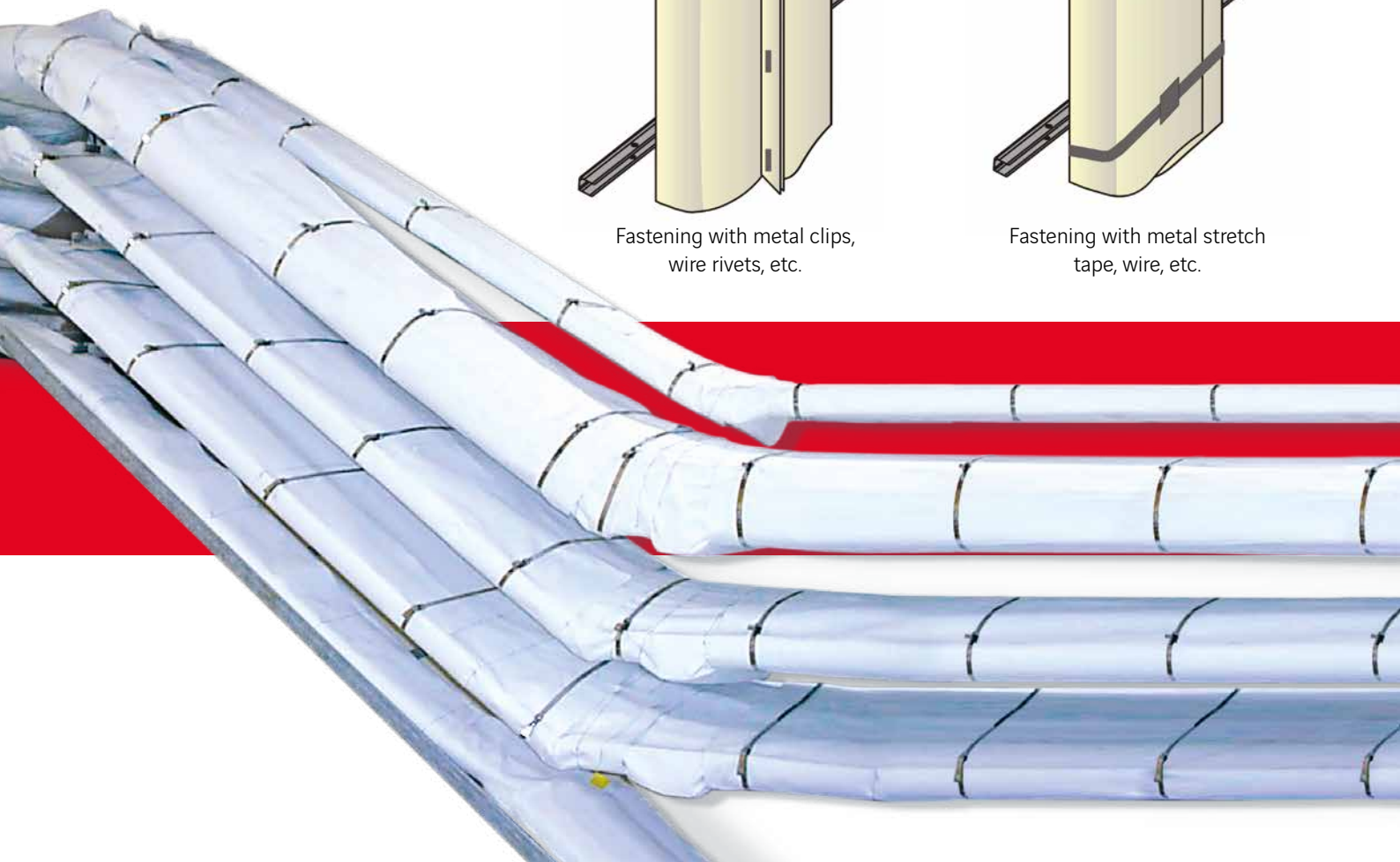
use in escape routes should be decided by the building inspection authorities, possibly in connection with a fire protection concept. Thanks to the outstanding features of PYROMENT®-KVB2000, the user has access to a premium quality product for preventive fire protection, one which can be installed easily and affordably.



Fastening with metal clips,
wire rivets, etc.



Fastening with metal stretch
tape, wire, etc.



Areas of application

- Indoor cable ducts and cables
- Building and industrial technology as well as cleanrooms

Advantages

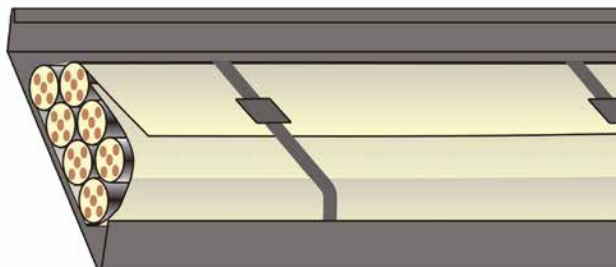
- Suppression of cable fires
- Preventing the spreading of local fire sources via cable ducts
- Extended functionality of electrical cables in case of fire

Sizes available

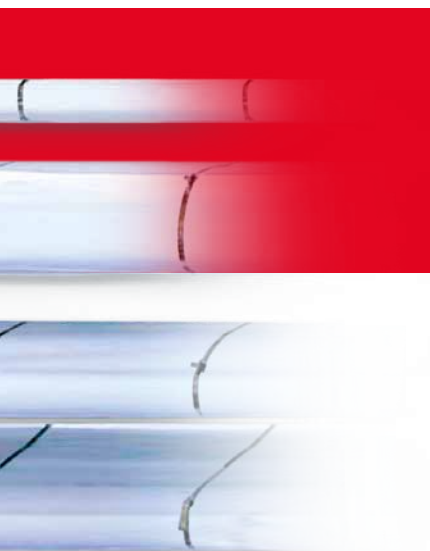
- Standard width 1,150 mm, all widths up to 1,150 mm can be supplied upon request
- Standard length 20 m
- Thickness approx. 1 mm
- Surface weight approx. 1,200 g/m²

Features

- Machine made
- Poses no health hazard
- Aging resistant and non-hygroscopic
- Low space requirement
- Dry and simple installation
- Flexible
- Easy to fasten
- Installation possible at any time
- No problem with complex geometry



Bandaged cable on a horizontal cable duct



Waterproof fire protection with PYROMENT®-KVB2000 W

PYROMENT®-KVB2000 W from G+H Insulation provides optimum protection for your outdoor cables because the PYROMENT®-KVB2000 W fire protection system maintains its protective function even in wet conditions. Complex sheet metal or foil coverings as well as costly lacquer finishes are no longer necessary.

PYROMENT®-KVB2000 W is a black cable wrap on a graphite basis. It foams when heated and thus stems the outbreak of cable fires, delays the loss of

electrical cables in case of fire and prevents the spreading of local fire sources via cable ducts. As a result of its extremely low surface weight of only about 1,200grams/m² the thin and flexible wrapping is also very easy to install.

PYROMENT®-KVB2000 W offers optimal fire protection for electrical cables in those areas that can get wet.



Areas of application

- Outdoor cable ducts and cables

Advantages

- Protection against cable fires
- Protection against the spread of local fire sources via the cable ducts
- Extended functionality of electrical cables in case of fire
- Things that are no longer necessary include: costly coverings, lacquer and supports

Features

- Thickness 1.2 to 1.6 mm
- Surface weight approx. 1,200 g/m²
- Waterproof fire protection fabric
- Up to 120 minutes of fire resistance according to the function maintenance tests of the MPA Dresden
- UV resistance was not tested

and outdoors

Certificates

- Approved by the German Construction Institute, material approval no. Z-19.11.1865
- Function maintenance test from the MPA Dresden following IEC 6033-11 and IEC 60 331-21



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