



# NordicFireProtection



## **PASSIVE FIRE PROTECTION**

### **ADVISE - PRODUCTS - SOLUTIONS**

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## PROJECTS NORDIC FIRE PROTECTION CONTRIBUTED TO



Kilden cultural center in Norway. Billowing oak wall treated with ES/VFR flame retardant coating to B s1 d0.

Artipelag art centre in Sweden. All internal wood treated with HW01 intumescent paint to EI30.



Passive fire protection is meant to be invisible. We are proud to have supplied materials and knowledge to a number of high profile buildings in Scandinavia. We are also proud that you would never know.

Vennesla Library in Norway. Interior supportive glulam beam system treated with ES/VFR flame retardant coating to B s1 d0.



Concert Hall in Norway. Interior wood veneer and MDF treated with ES/VFR flame retardant coating to B s1 d0.



Ulls Hus in Sweden. Interior wood treated with ES/VFR flame retardant coating to B s1 d0.



Church in Sweden. Wooden ceilings treated with ES/VFR flame retardant coating to B s1 d0.



Kongsvinger Festing in Norway. Internal wood treated with HW01 intumescent paint to EI30.





## COATINGS FOR WOOD HW SERIES & ES/VFR

### WOOD WITH FIRE RATING

We offer two types of protection for wood and wood derivate such as chipboard/mdf. The intumescent HW-series will give 30 to 60 minutes of protection, while the flame retardant ES/VFR series gives EN b s1 d0 (BS Class 0, Class1)

### HW SERIES

HW-series comes as a white paint (HW01) or a clear varnish (HW02). Both types are water based. In case of fire the coating will expand and give the substrate a physical barrier. The unique formula gives the advantage of not needing to remove existing treatment from the wood before applying the fire protection. The paint/varnish is a specialist product and needs to be applied in line with instructions given. Note that the HW-series need a topcoat applied as soon as it is dry. The good news is that as long as the topcoat is in good condition, the fire protection is intact, year in and year out. HW-series is also used to upgrade wooden doors to a fire rated status.



Kongsvinger Festing, Norway  
– treated with HW01

### FACTS HW-SERIES

HW01 intumescent white paint

HW02 intumescent clear varnish

Size: 1, 2.5, 5 or 20 litre tins. Coverage: 8-10 m2 per litre.

Water based. Product can be applied to new wood or previously painted surfaces.

Hardwood could need a primer.

EI30: achieved with 2 coats of 125 my. EI60: achieved with 3 coats of 125 my

B s1 d0: achieved with 1 coat of 125 my

Application: spray, brush or roller. Note that product is hygroscopic and need a topcoat applied.



Artipelag art centre, Sweden – treated with HW01



### ES/VFR

ES/VFR is a flame retardant white paint or clear varnish. It is designed to not ignite and tested to a “spread of flame” rating. This is often a must in large public spaces like hospitals, libraries, airports etc. ES/VFR is water based and can be applied on new wood or previously treated surfaces. It needs a top coat, but this can be any normal paint or varnish.



Kilden concert hall, Norway – treated with ES/VFR Clear

### FACTS ES/VFR

ES/VFR white, flame retardant paint

ES/VFR clear, flame retardant varnish

Size: 1, 2.5, 5 or 20 litre tins

Coverage: 12-15 m2 per litre

Water based. Product can be applied to new wood or previously painted surfaces.

Hardwood needs a primer.

B s1 d0 (BS Class 0, Class 1): achieved with 2 coats of 85 my.

Application: spray, brush or roller. Note that ES/VFR need a topcoat

Vennesla library, Norway – treated with ES/VFR Clear



## DOOR SEALS



### CLOSING THE GAP

Expanding strips keeps fire from spreading

Fire consultants speak of rooms as “fire cells”, this means that fire should not spread from one room to the next. But even with fire rated walls we still need to move from one room to the other. The gaps around the doors are one of the most dangerous places in a house from a fire safety point of view.

We can offer door seals that protects from smoke, and that in case of fire will expand to close the gap between door and door frame. The door seals can either be rebated into the door edge or stuck and pinned to the doorframe. The self-adhesive strips we offer are the most popular option, as they are easy to fit and because they are not intrusive. All other openings in a door can be protected in the same manner: letter flaps, hinges, locks and handles.

### FACTS DOOR SEALS

ES/SDS Surface mounted door seals come in a set for single or double doors. IS/14/S Rebated seals are bought in lengths of 1050 or 2100 mm. Seals are tested to 30 or 60 minutes. Surface mounted seals have self-adhesive backing and are secured with pins through the brush. Seals can be painted.

## LETTER BOX PROTECTION



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### FACTS LETTER BOX PROTECTION

Protection for letterboxes can be had for most systems:  
Letter flaps with intumescent liner and rear flap or security hood.  
Tested to 1 h protection  
Only the intumescent liner for existing letter flaps through doors  
Rigid or soft letter boxes with intumescent lining. Designed to protect against damage or arson attacks.

## SEALANTS – ACRYLIC & SILICONE

### SAFE PASSGE

All rooms need services, but every opening in the wall is a fire risk. This can be amended with liquid intumescent and / or fire rated acrylic and silicone. A new product on the market with many uses is Pyropro HPE, High Pressure Exerting, a liquid intumescent that can crush and seal pipes up to Ø125 mm in case of a fire.

All our tubes are CE-marked.



### FACTS PYROCOUSTIC ACRYLIC SEALANT

Tested to EN 1366-4:2009, EN 1366-3:2009, UL 2079, ASTM E 1966 & BS476 pt 20&22

Fire resistance classification EN 13501-2

Acoustic Isolation EN 10140-2:2010 up to 48dB

Air Permeability EN 1026:2000 600Pa

Colour: white, grey, red and brown.

Size: 310ml Cartridge, 600ml Foil



### FACTS PYROLASTIC SILICONE SEALANT

Tested to EN 1366-4:2009 & BS476 pt 20 & 22. Fire resistance classification EN 13501-2

Tested for internal and external use.

Can be installed up to 100mm gap size

Acoustic Isolation EN 10140-2:2010 up to

Air Permeability EN 1026:2000 600Pa

Size: 310ml Cartridge, 600ml Foil



## LINEAR GAP SEALS & HPE



### LINEAR GAP SEALS

Most construction materials need gaps to allow for expansions. The gaps need to let air and moisture through, but not smoke or fire.

The solution in many cases is a Linear Gap Seal. Black foam with intumescent layers sandwiched around and in between. The beauty of this product is that it is fantastically easy to fit: compress, put into place and let go.

### FACTS LINEAR GAP SEALS

Sandwich type gap seal of elastomeric foams and graphite impregnated strips

Tested to EN 1366-4:2006 & BS476 20 & 22

Designed to deliver 120 or 240 min fire protection

Offers high movement capabilities up to 200mm joint sizes

Size: for gaps from 10 mm to 200 mm

### FACTS PYROPRO HPE

Graphite based product that when exposed to fire expands to protect cable bunches, cable trays, plastic and metal pipes.

Tested to EN 1366-3:2009 & EN 1366-4:2009

Fire resistance classification EN13501-2

Gives 2 h fire protection on pipes up to Ø 125 mm

Suitable for use in irregular applications.

Air Permeability EN 1026:2000 Size: 310ml Cartridge





## PIPE COLLARS / PIPE WRAPS



### PIPE COLLARS AND WRAPS

Ventilation, electricity, water, heating. Every service needs to get in and out of every room. There are a number of ways to do this whilst keeping fire protection intact. If penetrations need to be free to be serviced (as cabling often does) a pipe collar or a wrap is the most efficient way.

#### FACTS PIPE COLLARS

PCP PipeBloc Pipe Collars

Tested to E120, EN1366-3:2009

Tested to BS476 20 & 22

Fire rated up to 120 minutes

Coated Steel and Stainless Steel shell with intumescent insert

For pipes from Ø32 mm to Ø400 mm

#### FACTS PIPE WRAPS

PWP PipeBloc Pipe Wrap

Tested to EN 1366-3:2009 and BS476 20 & 22

Fire rated up to 120 minutes

Designed to close a plastic pipe when affected by fire

Seals and protects ABS, PVC, HDPE, MDPE and PP Pipes

Intumescent material in a plastic liner

## FIRE PROTECTIVE FABRIC



### FIRE PROTECTIVE FABRIC

For temporary solutions or to allow movement – a fire protective fabric can solve many situations. We have even managed to fire protect an attic full of endangered bats that could not be moved with fire fabric. And drop curtains made a sports hall into a concert arena. Please contact us for specifics, as there are many types of fabric. Let us here present the two most used:

#### FACTS SILICONE TREATED SILVER COLOUR GLASS CLOTH

FF/122, 1220 mm wide, 50 m on a roll.

Silver coloured glass cloth with flame retardant rubber coating on both sides.

Gives integrity, not insulation.

0.5 mm thick. Tested to 120 min integrity

Create larger areas by stapling the cloth together

Also available as 1550 mm wide

#### FACTS INTUMESCENT IMPREGNATED CLOTH

FB70: 1,2 mm thick reinforced glass cloth impregnated with intumescent coating

Tested to 81 min integrity, 22 min insulation

Size: 1220 mm wide roll, up to 40 m per roll.

Colour: yellow. Can be cut with sharp knife.

Does not shed fibres. Acoustic version available

Lighter version available, FB30, red in colour, tested to 36 minutes integrity, 15 min insulation

## **Nordic Fire Protection - is a brand under Scandinavian Trading Ltd**

Well-documented solutions for passive fire protection.

We cover every need for passive fire protection. Most of our business is export to Scandinavia, but we also cater for the English market. Thanks to the Scandinavian bureaucracy being thorough, our selected range is carefully documented and up to date with current European regulations. Much of our range is already CE marked.

We also offer advice on passive fire protection. Our knowledgeable staff will custom make a solution suitable to the situation at hand.

### **Terms of business:**

Scandinavia Trading Ltd is an agent for UK and European manufacturers of Passive Fire Protection. We deal with trade customers only. Minimum order value is £200. All goods sold ex factory. All prices given in communication with STL will be ex VAT.



# NordicFireProtection

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