

**dunaseal_ford ENG.rtf
fire protection band**

Title:

**The fire protection of dilatation gaps with
Dunaseal fire protection band**

1.0. Specific hazards beyond those described in the general work safety instructions

Employees performing the work shall wear tight, closed working clothes while performing the tasks; high-legged work boots as well as plastic helmets are also to be worn.

In the case of any deficiency of any element of the protective gear, the work is to be interrupted immediately, and it is only to be resumed after the elimination of the deficiency.

The electric lighting equipments necessary for performing the work, as well as the insulation thereof shall be quality controlled on a regular basis.

The work is to be commenced and performed only with equipments in perfect condition.

The work with Dunaseal materials swelling to heat shall only be commenced in locations where there are no elements capable of causing injuries on the walking surfaces as well as up to body height, e.g. wire ends sticking out of reinforced concrete, metal scraps, various wiring remnants, nails, etc.

The employees are to be specifically trained also to observe all the general as well as any special local specifications and official measures regarding workplaces in addition to the above specified instructions.

2.0. Environmental specifications

All activities shall be performed in such manner that it affects the environment to the least possible extent, and so that any burden on and the utilization of the environment shall decrease, and it shall not cause any environmental burden or environmental pollution. It is to be ensured that the creation of waste is prevented, the amount of any waste created is decreased, the waste is reused and disposed of in an environmentally sound way.

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3.0. Defining the equipments necessary for performing the work

Brush, scrub

Scissors, or knife

4.0. Primary materials to be used

- Dunaseal fire protection band in sizes corresponding with the width of the dilatation gap
- Stone wool wadding, or stone wool quilt of 40 kg/m³ volume weight

Dunaseal fire protection band dimensions:

The Dunaseal joint sealing band is manufactured with 1 m length, 30 mm height in two different widths:

Simple band - 35 mm – 1 layer foam material, 2 layers fire stopping laminates for gaps of 10-25 mm

Double band - 67,5 mm – 2 layers foam material, 3 layers fire stopping laminates for gaps of 25-50 mm

4.1. Introducing the Dunaseal joint sealing band:

DUNASEAL joint sealing band, which is a flexible plywood unit consisting of flexible foam material and laminate swelling to heat.

The flexible foam material

- ensures that the potholes of the structural gap are filled in
- carries the fire stopping laminate stripe
- its flexibility guarantees that it can be securely fastened in any part of the gap

The fire stopping laminate stripe

- makes sure that, in the case of fire, - from 120 C° it constantly develops a quickly swelling heat-resistant insulating foam that fills in the gap it insulates and prevents the further spreading of the fire for 90 – 120 minutes.

4.2. Technical specifications:

Appearance	graphite grey colored flexible, spongy band
Flexibility	Elastic, it can be pressed 75% and regains its original shape after the pressure ceases.
Application circumstances	Between -40 C° - +50 C° also with high humidity
density	
Laminate	1.25 g/cm ³
Foam stripe	30 kg/m ³
Fire protection efficiency	
Swelling temperature	from 120 C°
Swelling extent	20 –25 -fold
Material need	1 fm/m simple or double band
Guarantee	min. 15 years

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4.3. Fire protection effect:

The laminate swelling to heat swells several-folds its volume in the case of fire, thus creating a heat-resistant insulating foam that fills in the gap and prevents the further spreading of the fire.

5.0. The technological process

5.1. Preparing the surface

We remove the dust, dirt, or construction debris from the internal surface of the construction or dilatation gaps

5.1.1. Removal of grease and oil, or greasy and oily spots

When removing the greasy and oily spots, washing with the de-greasing liquids available in retail shall be applied.

5.1.2. Removal of construction debris, mortar, concrete using mechanical methods.

5.2 Installing the Dunaseal joint sealing band

5.2.1. Fire stopping insulation of roofing gaps:

In the gaps prepared in accordance with 5.1.1., or 5.1.2., we place stone wool wadding or stone wool quilt in 120 mm width (40 kg/m³ volume weight) in the openings in such a way that we leave 30 mm depth to the level of the roofing. We place the simple or double joint sealing band compressed into the opening and push it in so that its external edge shall be level with the roofing.

5.2.2. Fire stopping insulation of gaps on vertical walls:

In the gaps prepared in accordance with 5.1.1., or 5.1.2., we prepare the fire stopping insulation according to the steps described in 5.2.1.

Insofar as the construction gap is accessible from both sides of the wall, a simple or double joint sealing band corresponding with the width of the gap shall be installed on the other side of the wall as well.

The joint sealing bands are distributed to the working areas in 1 m length, insofar as the gap to be insulated should be longer than this, the bands can be cut to the desired length applying a sharp knife or scissors.

In the case of gaps to be insulated that are longer than 1 m, we place the bands adjacent one another.

6.0. Controlling and examination tasks

The professional selection of the materials shall be done by the foreman or the person in charge of the construction.

The professional delivery is the responsibility of the installation manager in charge of the construction.

The professional storing is the responsibility of the central storage manager, while the storing of the materials delivered to the construction area is the responsibility of the general technical manager in charge of the construction.

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6.1. Checking the installation:

Tasks to be performed prior to installing the joint sealing band:

- measure the length and width of gaps to be insulated;
- check the cleanliness of the internal surfaces of the gaps to be insulated;
- ensure the availability of the primary materials as well as the equipments necessary for the installation of the joint sealing band;

Tasks to be performed after installation:

Make sure that the joint sealing bands are professionally installed and fastened securely.

In summary, the checking modes belonging to the work phases:

1. Surface preparation
 - make sure that the surface is devoid of any pollution
2. Installing
3. Inspection, checking mechanical stability

7.0. Relevant specifications, standards and other documents

ÉMI protocols

8.0. Documents to be prepared to be kept

Work number file

Building log