

Plakafeu - Jointofeu

Fire break solutions for expansion joints





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Plakafeu Regulations

When a fire develops, construction components must play their part, despite the effects of fire. The stability of structural components must be guaranteed for the entire period needed to evacuate the building. The walls that separate the structure's different compartments must limit the spread of fire.

To achieve this aim, it has been necessary to adopt identical methods throughout Europe for determining the reaction to fire and fire resistance classifications for construction products.

The Decree of 22nd March 2004, published in the Official Gazette of 1st April 2004, transposes the European classification for the fire resistance of construction products into French regulations.

R (resistance) **FIRE STABILITY** (relates to structural components)
E (fire integrity) **FLAME ARRESTOR**
I (insulation) **THERMAL INSULATION**

Likewise, fire resistance durations are now expressed in minutes and not in hours.

TRIALS/TESTS MUST BE CARRIED OUT IN ACCORDANCE WITH NEW EUROPEAN STANDARDS.

PLAKAFEU strips and the Jointofeu cords form the subject of test report no. RS06-106 in accordance with new European standard EN1366-4 governing linear joints.

Classification obtained for Plakafeu strips

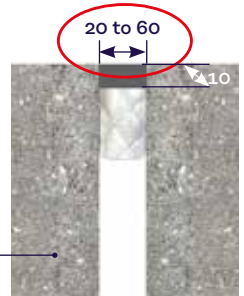
E 240_H_M20_F_W 20 to 60

EI 240_H_M20_F_W 20 to 60

In minutes

Maximum joint gap = 20%

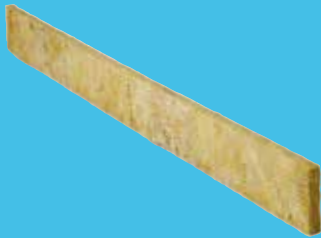
Nominal joint width



Classification obtained for Jointofeu cord

E180_V_H_M20_F_W 20 to 60

EI180_V_H_M20_F_W 20 to 60



1 single cord

Plakafeu strip

	Dimensions	Pack	Pallet
Plakafeu strip, 20 mm thick	200x1200	33,60 ml = 28 strips	268,80 ml = 10 packs
	250x1200	33,60 ml = 28 strips	268,80 ml = 10 packs
Plakafeu strip, 40 mm thick	200x1200	16,80 ml = 14 strips	168 ml = 10 packs
	250x1200	16,80 ml = 14 strips	168 ml = 10 packs

	Dimensions	Packaging	Use
Mechanical spring mounting	D=20 mm - L=55mm	Bags of 50	6/ml

Jointofeu cord

Initial spacing of the expansion joint (mm)	Jointofeu cord Ø (mm)	Packaging	Jointofeu glue consumption (COTOCOLLE100) g/ml
20	30	20	400
40	60	20	800
60	90	18	800
80*	120	2	800
100*	150	2	800
120*	180	2	800

*For 120, 150 and 180 mm diameter Jointofeu cords, place Z-shaped fastening tabs every 250 mm before applying glue (see report).

Jointofeu glue

	Packaging
Jointofeu glue for cords	Refractory glue to apply before inserting the Jointofeu in the expansion joint 10 kg bucket

Jointofeu finishing mastic

	Packaging
Jointofeu finishing mastic	Finishing mastic in a cartridge, to apply on the Jointofeu when its installation has been completed Box of 24, 300 ml cartridges



Plakafeu Applications

The Plakafeu range is placed for all expansion joints in buildings requiring fire resistance of 240 minutes or less for Plakafeu strips and 180 minutes or less for Jointofeu cord.



Application



❶ Brush the edges of the concrete and apply a layer of glue into the joint.



❷ Push the Jointofeu gently into the joint.



❸ The junction is made by overlapping of one cord to the other, over a length of at least 200 mm.

Strips are particularly suited to fire protection for expansion dowel systems (see Titan dowels documentation).



Plakafeu Use

Standard application



❶ The strips are nailed to the edge formwork.



❷ The springs are positioned.



❸ Finished condition of the joint using Plakafeu strips.

It is advisable to choose a strip height that is at least equal to the floor height. Any excess can be easily cut off.

Application using Titan dowels



❶ Phase 1 Titan dowel positioning.



❷ Phase 1 concreting and Phase 2 Titan dowel positioning. The springs are positioned.



❸ Finished condition of the joint using Plakafeu strips.

It is advisable to choose a strip height that is at least equal to the floor height. Any excess can be easily cut off.

Using Plakafeu strips avoids the need for subsequent work and guarantees complete fire integrity of all construction joints. Product classification reports are available on request.



See our Plakasteel documentation for combinations of Titan dowels and Plakasteel elements.

Worldwide contacts for Leviat:

Australia

Leviat
98 Kurrajong Avenue,
Mount Druitt Sydney, NSW 2770
Tel: +61 - 2 8808 3100
Email: info.au@leviat.com

Austria

Leviat
Leonard-Bernstein-Str. 10
Saturn Tower, 1220 Wien
Tel: +43 - 1 - 259 6770
Email: info.at@leviat.com

Belgium

Leviat
Industrielaan 2
1740 Ternat
Tel: +32 - 2 - 582 29 45
Email: info.be@leviat.com

China

Leviat
Room 601 Tower D, Vantone Centre
No. A6 Chao Yang Men Wai Street
Chaoyang District
Beijing · P.R. China 100020
Tel: +86 - 10 5907 3200
Email: info.cn@leviat.com

Czech Republic

Leviat
Business Center Šafránková
Šafránková 1238/1
155 00 Praha 5
Tel: +420 - 311 - 690 060
Email: info.cz@leviat.com

Finland

Leviat
Vädursgatan 5
412 50 Göteborg / Sweden
Tel: +358 (0)10 6338781
Email: info.fi@leviat.com

France

Leviat
6, Rue de Cabanis
FR 31240 L'Union
Toulouse
Tel: +33 - 5 - 34 25 54 82
Email: info.fr@leviat.com

Germany

Leviat
Liebigstrasse 14
40764 Langenfeld
Tel: +49 - 2173 - 970 - 0
Email: info.de@leviat.com

India

Leviat
309, 3rd Floor, Orion Business Park
Ghodbunder Road, Kapurbawdi,
Thane West, Thane,
Maharashtra 400607
Tel: +91 - 22 2589 2032
Email: info.in@leviat.com

Italy

Leviat
Via F.lli Bronzetti 28
24124 Bergamo
Tel: +39 - 035 - 0760711
Email: info.it@leviat.com

Malaysia

Leviat
28 Jalan Anggerik Mokara 31/59
Kota Kemuning, 40460 Shah Alam
Selangor
Tel: +603 - 5122 4182
Email: info.my@leviat.com

Netherlands

Leviat
Oostermaat 3
7623 CS Borne
Tel: +31 - 74 - 267 14 49
Email: info.nl@leviat.com

New-Zealand

Leviat
2/19 Nuttall Drive, Hillsborough,
Christchurch 8022
Tel: +64 - 3 376 5205
Email: info.nz@leviat.com

Norway

Leviat
Vestre Svanholmen 5
4313 Sandnes
Tel: +47 - 51 82 34 00
Email: info.no@leviat.com

Philippines

Leviat
2933 Regus, Joy Nostalg,
ADB Avenue
Ortigas Center
Pasig City
Tel: +63 - 2 7957 6381
Email: info.ph@leviat.com

Poland

Leviat
Ul. Obornicka 287
60-691 Poznan
Tel: +48 - 61 - 622 14 14
Email: info.pl@leviat.com

Singapore

Leviat
14 Benoi Crescent
Singapore 629977
Tel: +65 - 6266 6802
Email: info.sg@leviat.com

Spain

Leviat
Polígono Industrial Santa Ana
c/ Ignacio Zuloaga, 20
28522 Rivas-Vaciamadrid
Tel: +34 - 91 632 18 40
Email: info.es@leviat.com

Sweden

Leviat
Vädursgatan 5
412 50 Göteborg
Tel: +46 - 31 - 98 58 00
Email: info.se@leviat.com

Switzerland

Leviat
Grenzstrasse 24
3250 Lyss
Tel: +41 - 31 750 3030
Email: info.ch@leviat.com

United Kingdom

Leviat
President Way, President Park,
Sheffield, S4 7UR
Tel: +44 - 114 275 5224
Email: info.uk@leviat.com

United States of America

Leviat
6467 S Falkenburg Rd.
Riverview, FL 33578
Tel: (800) 423-9140
Email: info.us@leviat.us

For countries not listed:

Email: info@leviat.com

Leviat.com

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**For more information on our solutions,
please contact your Leviat Team:**

Belgium

Ternat

Industrielaan 2, 1740 Ternat

T: +32 (0)2 582 29 45 F: +32 (0)2 582 19 62

Schoten (Halfen)

Borkelstraat 131, 2900 Schoten

T: +32 (0)3 658 07 20 F: +32 (0)3 658 15 33

Visit our website:

plaka-solutions.com