

## Plakafeu - Jointofeu

Fire break solutions for expansion joints



# Leviat®

We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

**Leviat is a world leader in connecting, fixing, lifting and anchoring technology.**

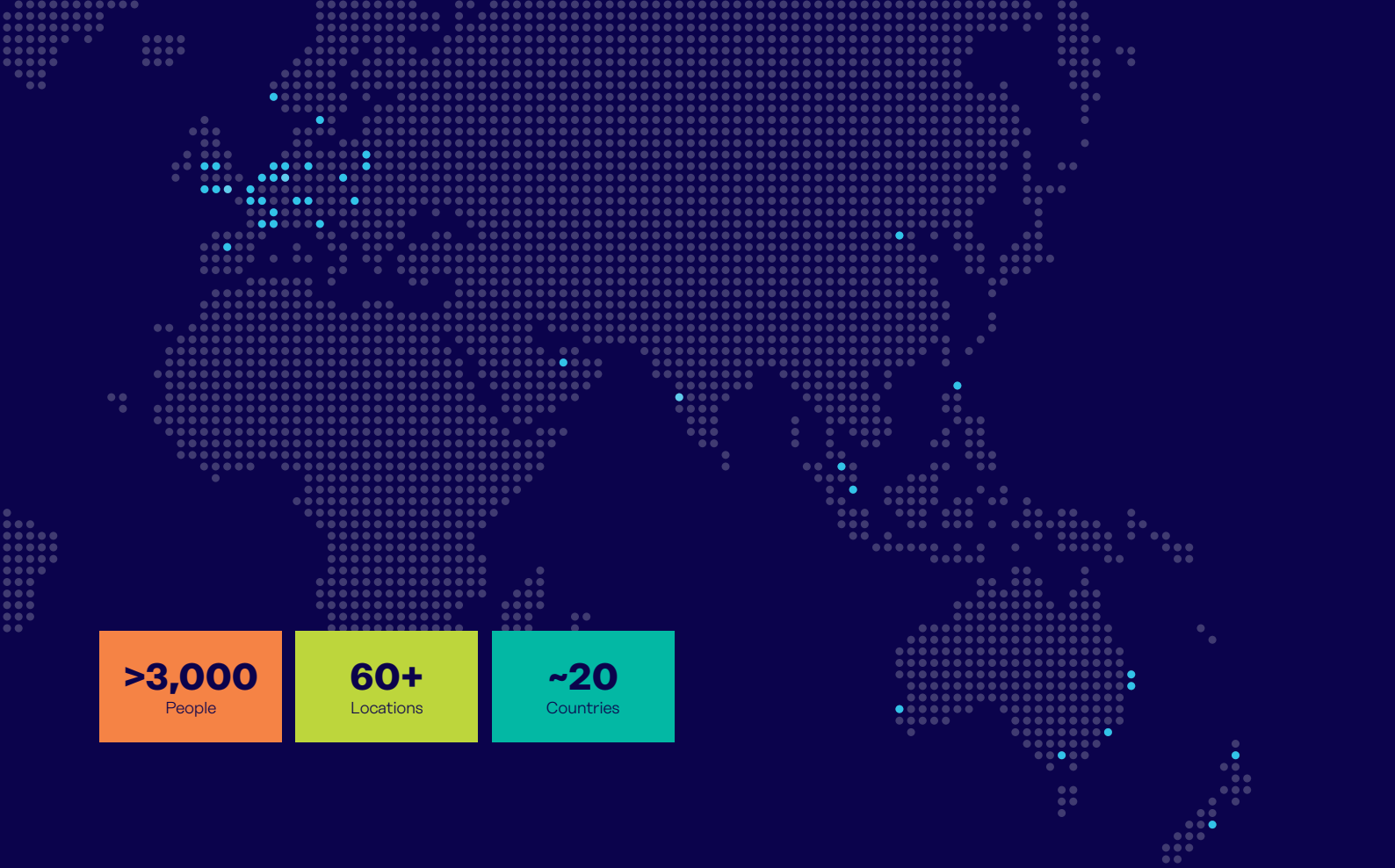
From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.



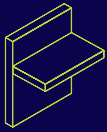


**>3,000**  
People

**60+**  
Locations

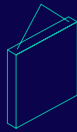
**~20**  
Countries

### Our areas of expertise:



#### Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



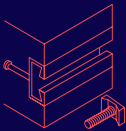
#### Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



#### Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



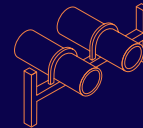
#### Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



#### Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.



#### Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

### Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke | Modersohn | Moment | Plaka | Scaldex | Thermomass

## 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**

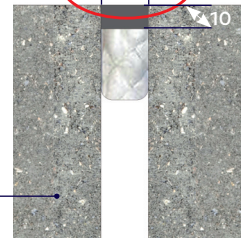
**EI 240\_H\_M20\_F\_W 20 to 60**

In minutes

Maximum joint gap = 20%

Nominal joint width

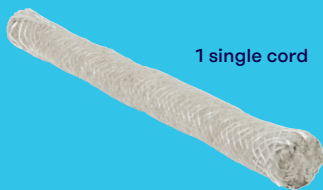
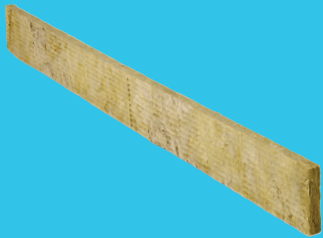
20 to 60



### 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



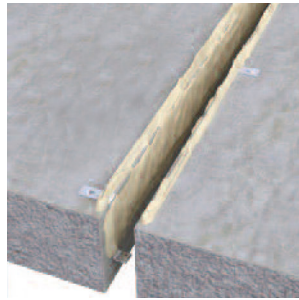
## Plakafeu Applications



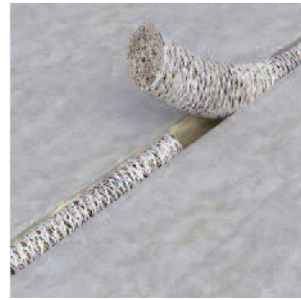
### Application



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.



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



2 Push the Jointofeu gently into the joint.



3 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

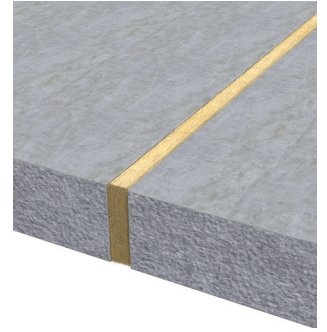
### Standard application



1 The strips are nailed to the edge formwork.



2 The springs are positioned.



3 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.

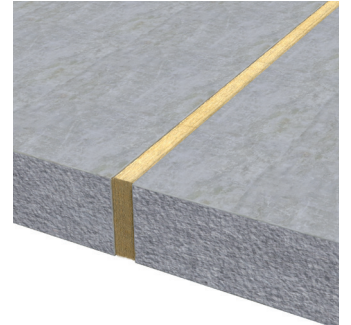
### Application using Titan dowels



1 Phase 1 Titan dowel positioning.



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



3 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.

# Contact Leviat worldwide

## Australia

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

## Austria

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

## Belgium

Industrielaan 2  
1740 Ternat  
Tel: +32 - 2 - 582 29 45  
Email: [info.be@leviat.com](mailto:info.be@leviat.com)

## China

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](mailto:info.cn@leviat.com)

## Czech Republic

Pekařská 695/10a  
155 00 Praha 5  
Tel: +420 - 311 - 690 060  
Email: [info.cz@leviat.com](mailto:info.cz@leviat.com)

## Finland

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

## France

Carré Pleyel  
5, Rue Pleyel  
93200 Saint Denis  
Tel: +33 (0)5 34 25 54 82  
Email: [info.fr@leviat.com](mailto:info.fr@leviat.com)

## Germany

Liebigstrasse 14  
40764 Langenfeld  
Tel: +49 - 2173 - 970 - 0  
Email: [info.de@leviat.com](mailto:info.de@leviat.com)

## India

Unit S4, 902, A Wing,  
Lodha iThink Techno Campus Building,  
Panchpakhadi, Pokharan Road 2,  
Thane, 400606  
Tel: +91-022 695 33700  
Email: [info.in@leviat.com](mailto:info.in@leviat.com)

## Italy

Via F.lli Bronzetti 28  
24124 Bergamo  
Tel: +39 - 035 - 0760711  
Email: [info.it@leviat.com](mailto:info.it@leviat.com)

## Malaysia

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

## Netherlands

Slachthuisweg 10  
7556 AX Hengelo  
Tel: +31 - 74 - 267 14 49  
Email: [info.nl@leviat.com](mailto:info.nl@leviat.com)

## New Zealand

246D James Fletcher Drive, Otahuhu,  
Auckland 2024  
Tel: +64 - 9 276 2236  
Email: [info.nz@leviat.com](mailto:info.nz@leviat.com)

## Philippines

27F Office A, Podium West Tower,  
12 ADB Avenue, Ortigas Center  
Mandaluyong City, 1550  
Tel: +63 - 2 7957 6381  
Email: [info.ph@leviat.com](mailto:info.ph@leviat.com)

## Poland

ul. Głogowska 151  
60-206 Poznań  
Tel: +48 - 61 - 622 14 14  
Email: [info.pl@leviat.com](mailto:info.pl@leviat.com)

## Singapore

10 Benoi Sector,  
Singapore 629845  
Tel: +65 - 6266 6802  
Email: [info.sg@leviat.com](mailto:info.sg@leviat.com)

## Spain

Poligono Industrial Santa Ana  
c/ Ignacio Zuloaga, 20  
28522 Rivas-Vaciamadrid  
Tel: +34 - 91 632 18 40  
Email: [info.es@leviat.com](mailto:info.es@leviat.com)

## Sweden

Vädursgatan 5  
412 50 Göteborg  
Tel: +46 - 31 - 98 58 00  
Email: [info.se@leviat.com](mailto:info.se@leviat.com)

## Switzerland

Grenzstrasse 24  
3250 Lyss  
Tel: +41 (0)800 22 66 00  
Email: [info.ch@leviat.com](mailto:info.ch@leviat.com)

## United Arab Emirates

RA08 TB02, PO Box 17225  
JAFZA, Jebel Ali, Dubai  
Tel: +971 (0)4 883 4346  
Email: [info.ae@leviat.com](mailto:info.ae@leviat.com)

## United Kingdom

President Way,  
President Park,  
Sheffield S4 7UR  
Tel: +44 - 114 275 5224  
Email: [info.uk@leviat.com](mailto:info.uk@leviat.com)

## USA / Canada

6467 S Falkenburg Road  
Riverview, FL 33578  
Tel: (800) 423-9140  
Email: [info.us@leviat.us](mailto:info.us@leviat.us)

For countries not listed  
Email: [info@leviat.com](mailto:info@leviat.com)

## Notes regarding this document

© Protected by copyright. The information in this publication is based on state-of-the-art technology at the time of publication. In every case, project working details should be entrusted to appropriately qualified and experienced persons. Leviat shall not accept liability for the accuracy of the information in this document or for any printing errors. We reserve the right to make technical and design changes at any time. With a policy of continuous product development, Leviat reserves the right to modify product design and specification at any time.

# Leviat®

Imagine. Model. Make.

[Leviat.com](https://Leviat.com)