

Uniclass L68111:P91	Epic F811
CI/SfB Ry	(K2)

February 2022

Kemwell FPL Fireplace Lining Calcium Silicate Board

A1 Non-combustible high performance, dimensionally stable, fire resistant building board for stove wall and fireplace linings



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PASSIVE FIRE PROTECTION

Specialists for the construction, infrastructure, transport, energy, industrial and commercial sectors.



Chimney breast fire protection and insulation lining system

Kemwell FPL fireplace lining calcium silicate board is a safe, robust and lightweight chimney breast lining system for cassette and inset fireplaces and stoves.

Kemwell FPL calcium silicate boards can resist continuous high temperatures up to 1000°C and are dimensionally stable during and after heating. This reduces the risk of cracking which would negate the fire-resisting properties of other boards.

The system includes various components, including boards, calcium silicate studs, and glue.

Compliance to **HETAS standards** is vital to ensure householder safety, meaning all components of a fireplace lining system should be compatible and fire safe. Kemwell FPL calcium silicate board system is A1 non-combustible, the highest level of fire performance.

Kemwell FPL boards are designed to meet Building Regulations Part J (Combustion Appliances and Fuel Storage Systems), providing homeowners, architects, developers, and contractors with adaptability and performance benefits to enable safe and innovative designs.

You can specify **Kemwell FPL** with confidence.

SUPPORT

Our project team provides expert support services throughout all stages of any construction or refurbishment project, including:

- Technical advice
- Supply of data sheets and certification
- Product selection and application consultation
- Site-visits
- Distributor support
- Installation advice
- On-site and off-site Educational Seminars
- Benefit from years of industry knowledge and experience

We understand the complex and stringent requirements of the building and construction industry and our products provide architects, developers, and contractors with adaptability and performance benefits to enable safe and innovative designs to be easily realised.



Please contact us to discuss your project or requirements further.

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TECHNICAL PROPERTIES

Designation	Calcium silicate
Material class	A1 non-combustible
Surface spread of flame	Class 1
Building Regulations classification	Class 0
Nominal dry density (average) kg/m ²	900
Alkalinity (approximately)	pH 10-11
Thermal conductivity (approximately) at 20°C W/mK	0.20
Coefficient of expansion (20-100°C) m/mK	7.5 x 10 ⁻⁶
Nominal moisture content (ambient) %	4-10
Moisture movement (ambient to saturated) %	≤ 0.1
Thickness tolerance of standard boards (mm)	± 0.5
Water vapor resistivity MNs/gm	98
Length x Width tolerance of standard boards (mm)	± 5mm
Surface condition	
Front face	Smooth, sanded
Back face	Textured

INSTALLATION GUIDELINES

Kemwell FPL should be fixed at maximum 300mm centres to a non-combustible background either steel stud framework, blockwork or brick.

Boards should be pre-drilled with oversize holes to allow for a degree of thermal expansion.

Kemwell FPL can be fixed to studs of 20mm thick x 68mm wide Kemwell FPL as a dimensionally stable alternative.

Fixing directly to blockwork or brick, metal plugs should be used.

Boards are supplied in 2440mm x 1220mm sheets and are 12mm thick.

BOARD SIZES

Thickness	12mm
Width	1220mm
Length	2440mm
Dry Approx. Weight (kg/m ²)	11.3

Note: All standard boards come with cut square edges. Recessed edges may be available and can be produced to special order.



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Fire protection and insulation

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