KEMWELL PFP
*Fire protection and insulation*

# MultiKem MP-1000®
# Calcium Silicate Board

**A1 Non-combustible** multi-purpose fire resistant building board
for interior and semi-exposed applications



SAVING LIVES | PROTECTING BUILDINGS & CONTENTS | MAINTAINING VITAL SERVICES

## PASSIVE FIRE PROTECTION
Specialists for the construction, infrastructure, transport, energy, industrial and commercial sectors.

# High Performance non-combustible Calcium Silicate Board

Kemwell Multi**Kem** MP-1000® is an easy to install, non-combustible calcium silicate building board, combining fire, moisture and impact resistance with thermal insulation properties. It provides up to 120 minutes fire resistance.

It is a versatile and lightweight Class 0 board but has the required strength for a wide range fire passive fire protection projects, including internal partitions, ceilings and semi-exposed applications.

The boards have excellent dimensional stability under heat and in severe moisture environments, and are suitable for installation in damp and wet areas.

In the building and construction industry lightweight structures are gaining wide spread recognition and acceptance against traditional brick and masonry. Multi**Kem** MP-1000® partition systems provide solutions to meet most design criteria for lightweight walls and ceilings.

You can specify Kemwell Multi**Kem** MP-1000® with confidence.



## COMPOSITION

Multi**Kem** MP-1000® is made from environmentally friendly materials and has an off-white colour with a smooth finish on one side with a sanded reverse face.

Kemwell autoclaved calcium silicate boards are asbestos-free. Calcium silicate is a white free-flowing powder obtained by reacting calcium oxide and silica. It has a low bulk density and high physical water absorption.

The boards are manufactured from a homogeneous mixture of cement, organic cellulose fibres and selected mineral binder. The autoclaving process promotes the crystallisation of the calcium silicate, which in turn contributes to the exceptional dimensional stability of the board.

It is not classified as a dangerous substance and can be placed in an on-site skip with other general building waste.

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

## SUPPORT

The Kemwell project team provides expert support services throughout all stages of any construction project, including:

• Technical advice
• Supply of data sheets and certification
• Product selection and application consultation
• Site-visits
• Installation advice

**Please contact us to discuss your project or requirements further.**

T: +44 (0) 333 344 0699 (UK)
T: +353 (0)1 565 3756 (Ireland)
E: info@kemwell-pfp.com

## APPLICATIONS

- Fire rated walls
- Dry wall systems and acoustic partitions
- Acoustic ceilings
- Fixed smoke curtains/barriers
- Decorative and moisture resistance ceilings
- Curved architectural ceilings
- Bathroom and shower partitions
- Access panels in wet areas
- Backing boards for tiles and cladding
- Fire rated industrial wall linings
- Aesthetic casings for electrical and mechanical building services
- Wall, roof, soffit, porch, parapet and canopy linings
- Composite panels
- Perforated finishes
- Door upgrades

## SECTORS

- Entertainment
- Hospitality and conference facilities
- Retail and shopping malls
- Commercial buildings and offices
- Education
- Healthcare and leisure
- Industrial
- Restaurants and hotels
- Residential properties

*Smoke barrier*

*Moisture resistant ceiling*

*Building services enclosure with exterior paint finish*

# FEATURES

### Fire Resistance
Multi**Kem** MP-1000® provides up to 120 minutes fire resistance and meets BS 476 Part 4 and BS EN ISO 1182 Euro Class A1.

It has an A1 non-combustible (construction applications) reaction to fire classification, according to EN 13501-1: 2007, as classified by Exova Warrington fire in the UK.

### Acoustic Performance
Multi**Kem** MP-1000® is an economic solution for both acoustic ceilings and partitions. A perforated panel when used with mineral wool provides an excellent sound absorption material. This has been widely used in opera houses, conference rooms and lecture theatres around the world.

It is also good sound insulator which when suitably constructed with steel stud and mineral wool infill will achieve a sound transmission class up to 60dB (STC 60).

### Moisture and Weather Resistant
Multi**Kem** MP-1000® retains its excellent dimensional stability, even in damp and humid conditions. It can be installed at an early stage of construction programme, even before the building is weather tight. It is suitable for semi-exposed applications and can be left undecorated. Boards are ideal for installation in damp and wet areas, as the boards are also rot proof and resistant to mould growth.

### Chemical Stability
It is a chemically stable building material and is unaffected by contact with most chemicals.

### Dimensional Stability
Multi**Kem** MP-1000® has excellent dimensional stability under heat and in severe moisture environments. It also has a small expansion rate. Boards are suitable for most industrial applications due to good impact resistance.

### Easy Workability
It is easy to install, it is simple to cut, drill, shape and fixed. It can be worked in the same way as timber products with no special tools required. Multi**Kem** MP-1000® is also maintenance friendly.

### Smooth Surface
Multi**Kem** MP-1000® has a smooth surface making it easy to apply a decorative finish to, such as tiles, paint or wallpaper

### Durability
Multi**Kem** MP-1000® is a lightweight but strong building board. System performance is unaffected by the hazards and condition of its working environment.

### Vermin Resistant
Multi**Kem** MP-1000® remains unaffected by rodent, termite and insect attack.

# BOARD SIZES

**Boards manufactured in accordance with:**
ISO 9001:2008 Standard Quality Management Systems
ISO 14001:2004 Environmental Management Systems

## MEASUREMENTS

| | |
|---|---|
| Thickness | 6 / 9 / 12 / - 25mm |
| Widths | 1200mm / 1220mm |
| Lengths | 2400mm / 2440mm |

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

## MANUFACTURING TOLERANCES

| | |
|---|---|
| Length Tolerance | +/- 5mm |
| Width Tolerance | +/- 5mm |
| Thickness Tolerance | +/- 0.3mm |

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