Promat

COMPARTMENTS

MASTERBOARD®

The versatile A1 non-combustible building board

BBA Certified with over 30 years of proven and tested fire protection performance

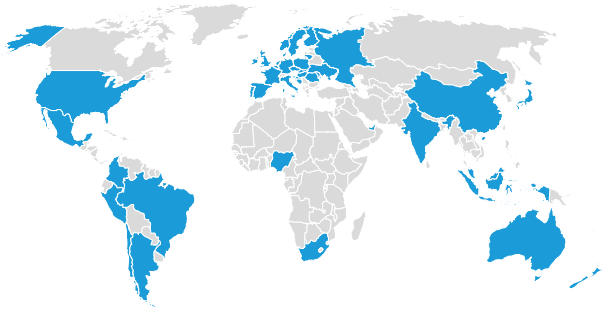
BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 18/5593

Note: Information correct at time of publication (see version number on back page). Please ensure you are using the latest version by visiting https://www.promat.com/en-gb/construction/documentation/

Promat is the global leader in passive fire protection

We offer you a complete portfolio of certified and tested products and systems to design and build a fully reliable fire safety solution for your building project.

With more than 60 years of experience and know-how, we are ready to help you protect people, buildings and assets.



Promat operates in over 40 countries around the world.

OUR MISSION

We want to make the world safer, healthier and more sustainable for the generations of today and tomorrow.

Safety is a concept people need in order to grow, prosper and enjoy life, yet we take it for granted every day. This is why we offer the highest standard in fire safety for homes, offices, schools, hospitals, shopping malls and airports.

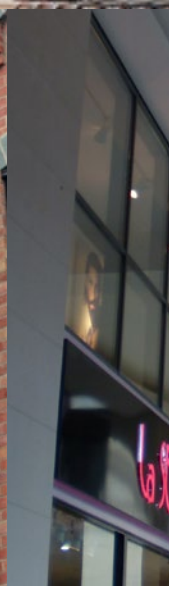
As the way we live, work and build constantly evolves, Promat wants to help maintain the highest level of fire safety. We offer you new products and innovations, so together, we can make this world a safer place.

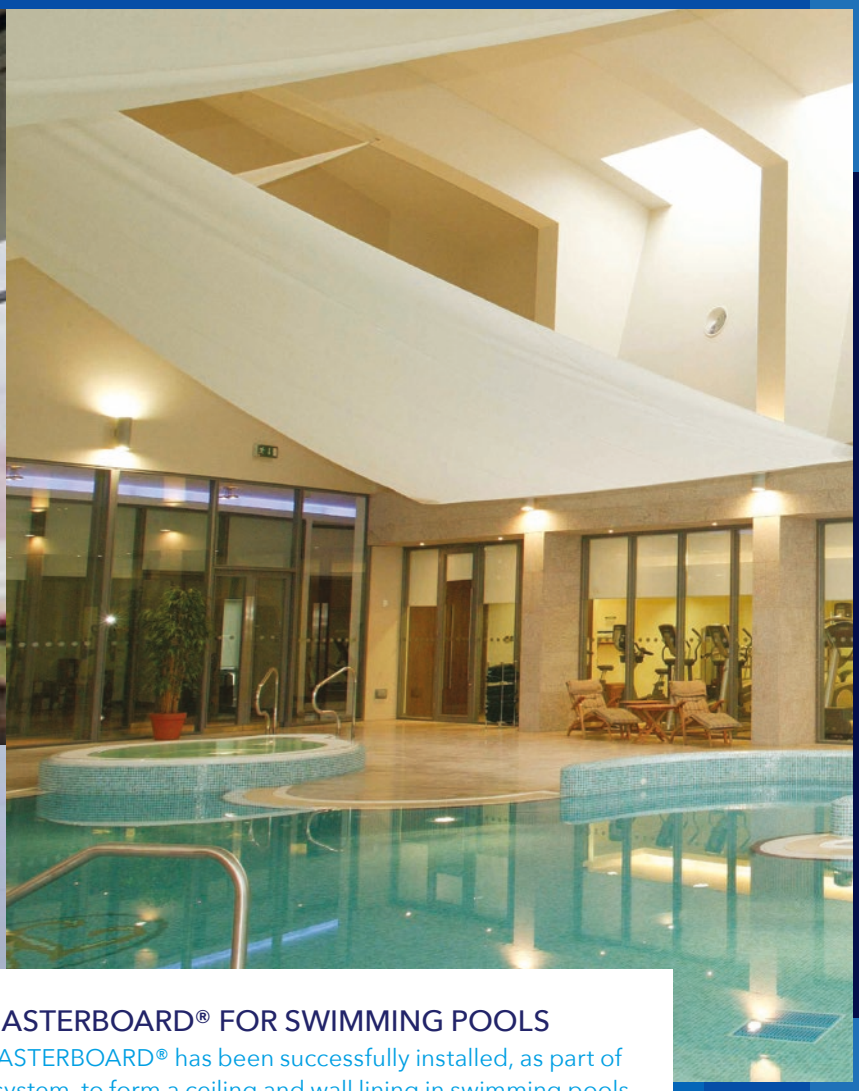
Product Overview

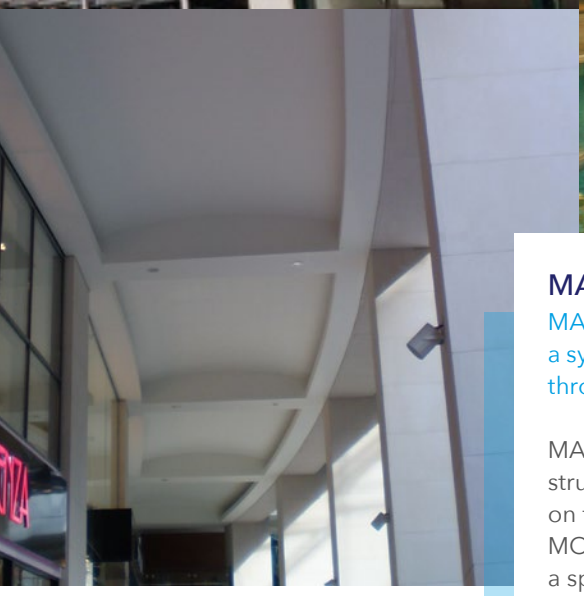
Promat MASTERBOARD® is a versatile A1 non-combustible (EN13501-1) building board suitable for use in a wide range of both internal and semi-exposed applications. It has BBA certification and over 30 years of proven and tested fire protection performance.

APPLICATIONS

- Partitions
- Ceilings
- Swimming pools ceilings and wall linings
- Wall linings
- Soffit, porch or canopy linings
- Service duct and pipe covers
- Boiler and airing cupboard linings
- Door upgrades
- Tile backing
- Wet rooms







MASTERBOARD® FOR SWIMMING POOLS

MASTERBOARD® has been successfully installed, as part of a system, to form a ceiling and wall lining in swimming pools throughout the UK and Ireland.

MASTERBOARD® is fixed to a treated metal support structure using corrosion resistant screws. It is rebated on four sides, allowing the joints to be filled with Promat MOISTURE RESISTANT JOINT FILLER and then coated with a specialist moisture resistant coating incorporating a joint reinforcement mesh.

This coating system not only provides the final decorative finish but also forms a vapour control layer to help reduce the risk of condensation and provides a hygienic biocidal surface which prevents the growth of bacteria and mould.

Performance

MASTERBOARD® provides up to 30 minutes fire protection, is resistant to the effects of moisture, will not physically deteriorate when used in damp or humid conditions and can withstand high temperatures and frequent temperature changes.

Fire Performance
- Up to 30 minutes fire resistance
- A1 Non Combustible (EN13501-1).

Moisture Resistance
- MASTERBOARD® retains its excellent dimensional stability even in damp and humid conditions and can be installed at an early stage in the construction programme, before the building is weathertight. MASTERBOARD® can also be used for semi-exposed applications and can be left undecorated.

Impact Resistance
- MASTERBOARD® has good impact resistance and can be used in a range of industrial applications.

Biological and Chemical Resistance
- MASTERBOARD® is resistant to mould growth, most chemicals and attack by rodents and insects.

Easy to Work, Fix and Decorate
- MASTERBOARD® is easy to install and can be cut, drilled and fixed in the same way as timber products, with no special tools required.

Environmental
- Water used in manufacturing is re-circulated in a closed system and most waste material can be re-used.

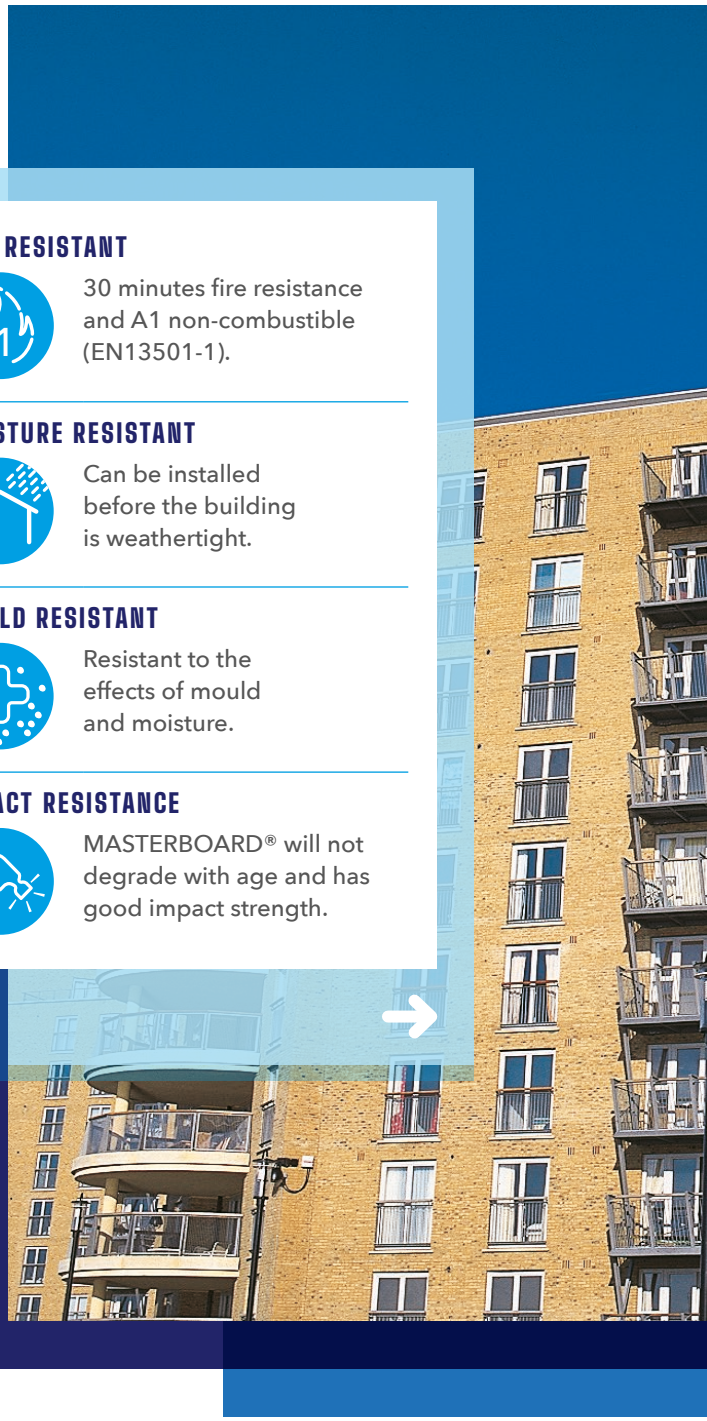
Health and Safety
- MASTERBOARD® is not classified as a dangerous substance and can be placed in an on-site skip with other general building waste.

FIRE RESISTANT
30 minutes fire resistance and A1 non-combustible (EN13501-1).

MOISTURE RESISTANT
Can be installed before the building is weathertight.

MOULD RESISTANT
Resistant to the effects of mould and moisture.

IMPACT RESISTANCE
MASTERBOARD® will not degrade with age and has good impact strength.



BBA APPROVAL INSPECTION TESTING CERTIFICATION
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- BBA CERTIFIED (BBA CERTIFICATE NO. 18/5593)
- FIRE TEST SPECIFICATIONS BACKED BY INDEPENDENT ASSESSMENT AND CERTIFICATION.
- PROMAT MASTERBOARD® IS COMPLIANT WITH ALL RELEVANT EU LEGISLATION (ETA NO. 09.0250)
- ALL OUR PRODUCTS ARE MANUFACTURED IN ACCORDANCE WITH AN ISO 9001 ACCREDITED QUALITY MANAGEMENT SYSTEM, AN ISO 14001 ACCREDITED ENVIRONMENTAL MANAGEMENT SYSTEM AND AN ISO45001 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM.

Case Study

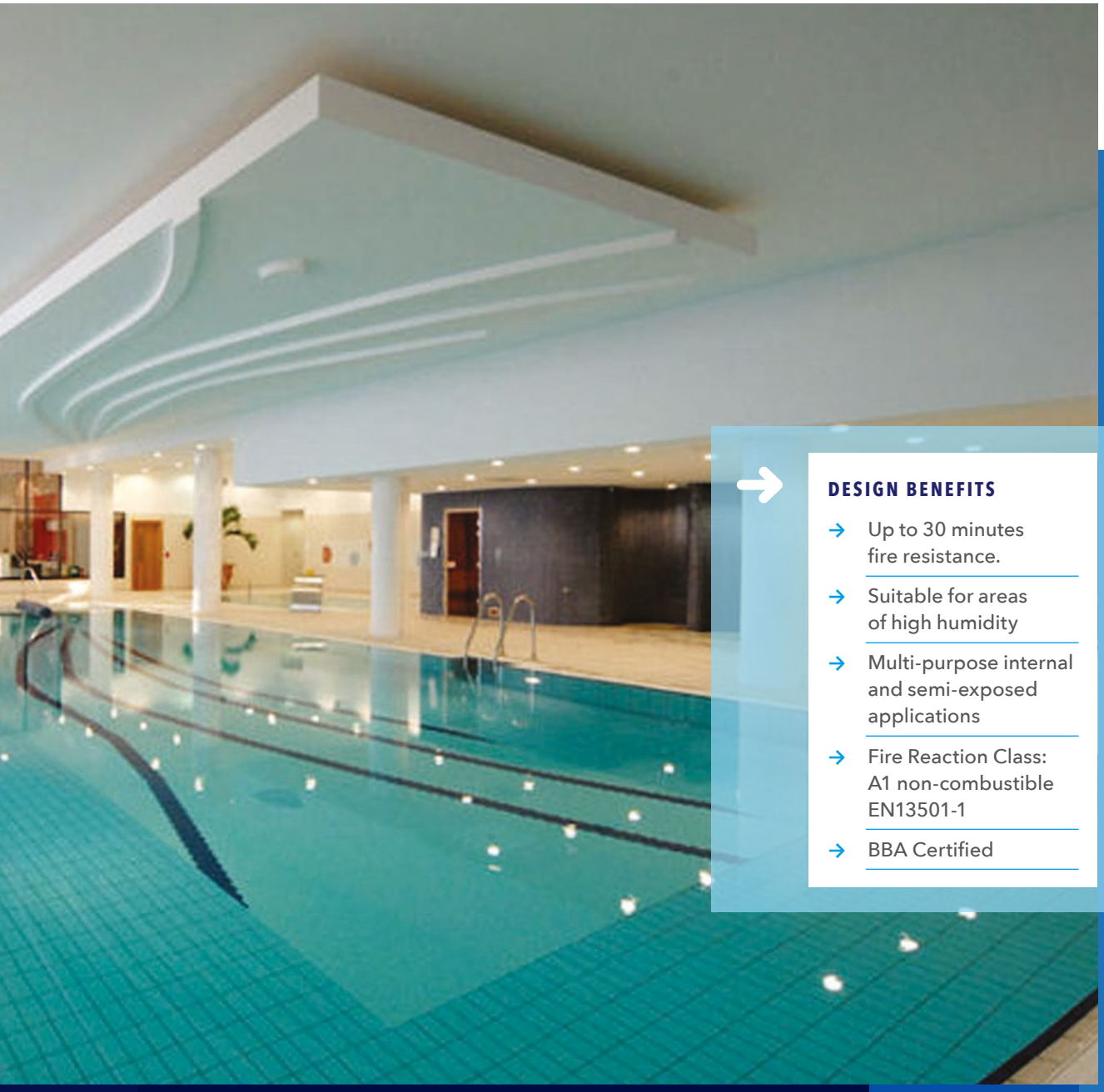
WHITES HOTEL, WEXFORD

The well-known and popular White's Hotel, located in the centre of Wexford town, has been transformed with a massive refurbishment and extension programme. Part of the extension was the leisure and fitness facility, which includes a fantastic leisure swimming pool.

The pool hall and some surrounding areas such as the changing and shower rooms, feature the Promat Swimming Pool Ceiling and Wall Lining System. This system is based on the tried and tested combination of components from three manufacturers together providing a lining system suitable for use in the harsh and corrosive environment of a swimming pool hall.

The system features a treated metal support system from Richter, the timeless moisture resistant calcium silicate board MASTERBOARD®, from fire protection leaders Promat, and the seamless hygienic coating finishing system from Liquid Plastics Limited.

The entire system is promoted and backed by Promat, with full technical support and backing from Richter and LPL.



DESIGN BENEFITS

- Up to 30 minutes fire resistance.
- Suitable for areas of high humidity
- Multi-purpose internal and semi-exposed applications
- Fire Reaction Class: A1 non-combustible EN13501-1
- BBA Certified

Working, Fixing and Decorating

GENERAL INSTALLATION

MASTERBOARD® must be supported at maximum 610mm centres in one direction and all board joints must be supported. Fixings should be minimum 12mm from the edge of the board and 40mm from corners.

For general purpose use, the boards should be fixed back to supports at 300mm centres. For fire resistant specifications or when tiling, the appropriate fixings and centres should be used.

Support and fixing centres may need to be reduced according to impact or wind loading requirements, please contact the Promat Technical Team for more details.

The most economical method of fastening is to use pneumatic nailing and stapling equipment. Nails can be driven directly through boards without pre-drilling, providing the back face of the board is fully supported. Panel pins, oval or lost head nails should not be used. As an alternative, M4 screws can be used (please note that 6mm boards can not be countersunk). 9mm thick boards can be supplied with rebated edges for areas where flush jointing is required.

In areas of high humidity, corrosion resistant fixings should be used.

Cutting

- Promat MASTERBOARD® can be worked with conventional woodworking equipment although the use of hand saws with hardened teeth is recommended.
- MASTERBOARD® greater than 6mm thickness may be more easily cut using a power circular saw in conjunction with tungsten carbide tipped blades, or a jigsaw.
- For rough cutting, 6mm sheets can be deeply scribed and broken over a straight edge ('score and snap').

Drilling

- Use normal low or high speed drills.
- Place scrap board under drilling location for clean hole.

Smoothing and Sanding

- Smooth cut edges with a surform, plane, rasp or file.
- Sand with conventional papers. Garnet paper is best for fine sanding.

Promat materials provide a surface ready to receive most forms of decoration. Where finishes such as wallpaper are to be used, application can be made easier by first sealing the board with a proprietary sealer or paint.

Plastering

- Promat fire protection boards have a high suction and therefore it is generally difficult to apply gypsum plaster. If plastering is essential please follow the guidance below.
- It is recommended that a small test area is plastered initially to ensure that the boards have been adequately sealed. It is advisable that a self-adhesive glass or hessian scrim is applied over joints and internal angles. Paper jointing tape is not recommended.

If a skim coat is desired:

- Apply a sealing coat of diluted universal primer/PVA (1 part PVA and 5 parts water).
- Sealing coat should be allowed to dry thoroughly (approximately 24 hours).
- Apply bonding coat (3 parts PVA and 1 part water).
- Apply plaster skim (maximum 5mm thick) while the bonding coat is wet and tacky.
- The plaster manufacturers recommendations for skimming onto high suction surfaces should be followed at all times.

HEALTH AND SAFETY

A safety data sheet is available online from **promat.com** and, as with any other materials, should be read before working with the board.

The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill.

They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.

Promat MASTERBOARD® is not load bearing.

Tiling

- MASTERBOARD® can be tiled with ceramic, marble, granite and natural stone tiles (maximum tile weight 30kg/m²).
- The minimum board thickness to be used should be 9mm. The boards should be sealed on both faces with PVA or watered down tile adhesive and allowed to dry.
- Vertical timber supports (minimum 50mm x 50mm) or steel studs should be installed at maximum 400mm centres and all board joints must be supported.
- Fix the boards, preferably with back (textured) face outwards, to the supports at 200mm centres. The screws should be countersunk and corrosion resistant.
- The tiles should then be fixed using standard tile adhesive.

Decorative Coating

Decorative coatings applied to the surface of Promat board products should comply with the requirements of Approved Document B (Appendix A) of the Building Regulations, in terms of contribution to the fire loading and the rate of surface spread of flame.

Surfaces should be dry, free of oil, loose surface layers and dust. If required, screw holes and board joints may be filled with Promat READY-MIXED JOINT FILLER and sanded accordingly.

Painting

Typically water-based paints such as emulsions, may be used with a watered down first coat to seal the surface. Alternatively, other paint types may require a proprietary sealer, primer or undercoat, depending upon the paint system. Consult with the paint manufacturers for their recommendations for use on calcium silicate boards.

Papering

When papering MASTERBOARD®, size the surface to seal against suction and improve slip, then hang papers or vinyls in the normal way.

Handling and Storing MASTERBOARD®

- Carry boards on edge, do not drop on corners.
- Store fully protected from weather on a flat base, clear of ground.
- Fully support boards across width at not more than 1m centres.

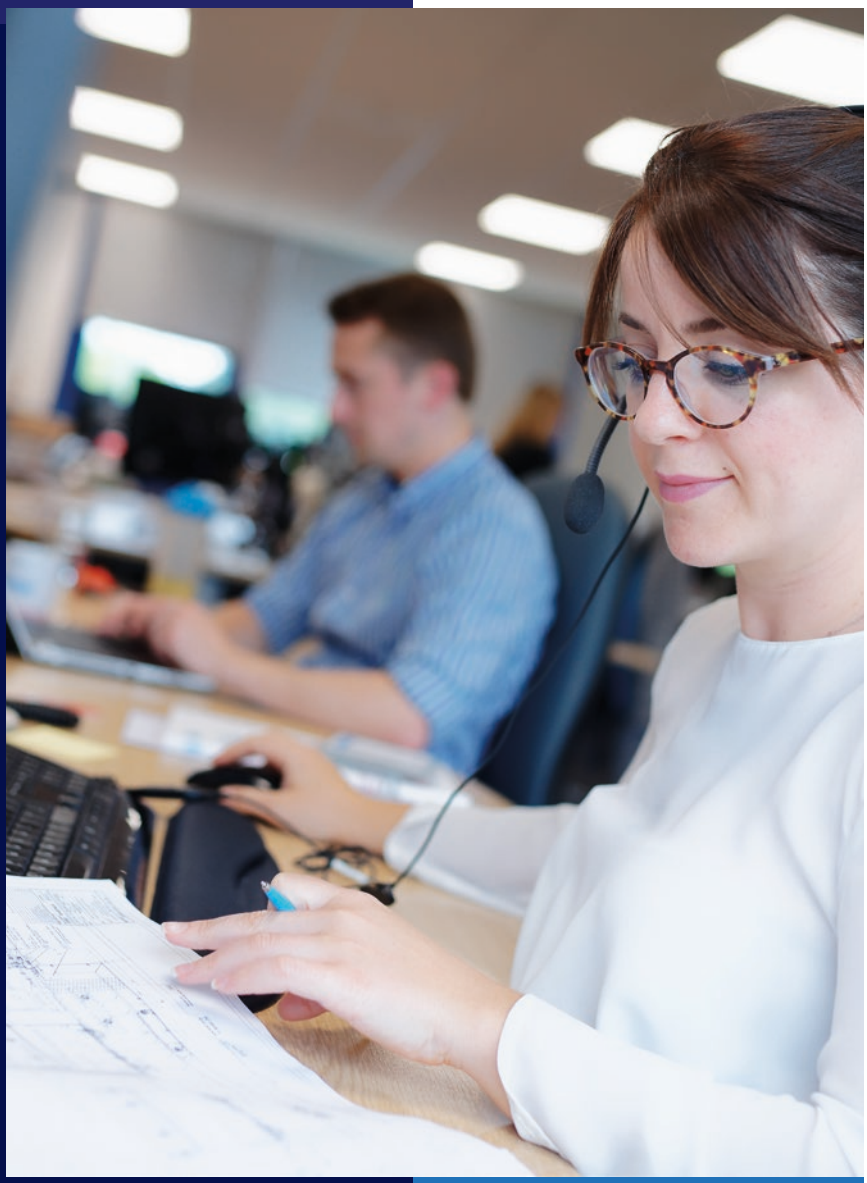
Further details on MASTERBOARD® applications can be found by visiting: promat.com

Technical Characteristics

GENERAL TECHNICAL DATA

Building Regulations classification	A1 non-combustible (EN13501-1)
Fire protection	Up to 30 minutes
Thicknesses	6mm, 9mm, 12mm
Dimensions	2440 x 1220 (6mm, 9mm, 12mm),
Nominal dry density (average) Kg/m³	1000
Moisture resistance	Semi-exposed/resistant to the effects of moisture
Designation	Calcium silicate
Combustibility	A1 non-combustible (EN13501-1)
Ease of fix/decoration	Excellent
Frame	Any standard timber or steel stud
Finish	Front: Smooth, unsanded Back: Sanded
Cutting	Conventional woodworking equipment. For rough cutting, 6mm sheets can be scored and snapped
Edges	Square or rebated edge (9mm only) panels
Certification	BBA 18/5593

Our technical support for your next project



We understand that designing and building a passive fire protection solution is often not an easy task.

We can help you to interpret your local regulations and assess the risks in your building project that demand a reliable fire safety solution.

We can provide you with a full technical report and all the supporting documents you need to finalise your design and start the building process.

We can offer you technical support and practical advice to deliver a perfect fire safety job.

Do not hesitate to contact us.

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Promat

Orderline

For placing orders, delivery enquiries and local stockists.
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