Building Boards
Product Range Brochure
RCM is a major supplier of building boards to the UK and European markets, our extensive range of products have been installed in many of the largest construction projects over the last ten years. Through its continued growth RCM is committed to become the market leader within its field.

RCM products have been designed and tested to meet the demanding needs of the construction industry. At RCM we take great care to ensure that we offer the complete service, from initial advice through to delivery. RCM offer a service which is flexible and meets your needs whilst remaining competitive.

RCM are very aware of the importance of our environmental impact, we are certified to ISO9001 and 14001. RCM are committed to working with the leading associations within our industry such as, BBA, TRADA, UKTFA, RIBA, NBS, FSC, EXOVA and Ceram. These associations enable RCM to offer the very best products to a demanding and changing construction industry.

Our challenge in the coming years is to further enhance our product range and services and be the very best in offering cost effective solutions without compromising quality.

All at RCM are committed to reaching and exceeding our targets.

Kind Regards

Ian Quinton
Managing Director,
Roofing & Cladding Materials Limited

The brochure provides an overview of the RCM product range for further information please contact our sales team on 0845 130 3725 or email us at info@rcmltd.biz

The technical data contained in this document is for guidance purpose only. The figures quoted are average/nominal figures. If your project requires a very specific performance figure please contact our technical department for the manufacturing tolerances of a particular product prior to application.

This brochure is for general information purposes only. Whilst we endeavour to keep the information up to date, this brochure contains no representation or warranty about the completeness or accuracy of information in it or about the reliability, suitability or availability of any products or services. Any reliance you place on this brochure is at your own risk.

RCM reserve the right to change our products without prior notice and all goods are supplied on our current terms and conditions.

†As our range of boards are used in extensive applications, the weighted acoustic insulation value is shown. If a particular thickness has not been tested we have still shown our opinion on this thickness, as our products are very seldomly used on their own, but more commonly in a system make up.

The pictures contained within this brochure show projects on which RCM have supplied products. The pictures do not guarantee that any particular product was used on any project.
# Quick Application Reference Guide

## Application | Suitable RCM Products
--- | ---
Sheathing | CEMBOARD<sup>®</sup> CEM<sup>+</sup> JOINT SEAL
Acoustic Roofing | CEMBOARD<sup>®</sup> CEM<sup>+</sup>
Flooring | CEMBOARD<sup>®</sup> Multipurpose<sup>®</sup>
Partitions | CEMBOARD<sup>®</sup> CEM<sup>+</sup> Multipurpose<sup>®</sup> siltech<sup>™</sup>
Laminate | CEMBOARD<sup>®</sup> CEM<sup>+</sup> Multipurpose<sup>®</sup> siltech<sup>™</sup>
Ceilings | Multipurpose<sup>®</sup> siltech<sup>™</sup>
Soffits | Multipurpose<sup>®</sup> siltech<sup>™</sup>
Wet Areas | Multipurpose<sup>®</sup>
Render Carrier Board | Renderflex™ Renderflex™
Fire Protection | siltech<sup>™</sup>
Door Facings | siltech<sup>™</sup>
Ducting | siltech<sup>™</sup> Multipurpose<sup>®</sup>
External Cladding | supertech™ Multipurpose<sup>®</sup>
Soffit Liner | Caltech™

## Associated Products

### JOINT SEAL
RCM Joint Seal is a fully tested air tightness seal.

### DAFA
RCM Dafa Tape is used for the sealing of insulation and board joints where a waterproofing seal is required.

### INTUSIL
Intusil is a white neutral cure sealant, designed for use in gaps and joints. Providing 4 hours fire integrity and insulation.

### Cutting Blades
RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear. Various bore sizes available – please specify when ordering.

### Fixings
RCM provide a premium quality and high performance fixing selection. For fixing advice and solutions contact RCM.

### Powder coated trims
For the full range of trims, please contact RCM’s sales team.

Call 0845 130 3725 fax 0845 130 3726 or email info@rcmltd.biz
# RCM Cemboard

## Introduction

**RCM Cemboard** is a rigid, medium density, high performance cement bonded particle building board which offers great strength and stability with the workability of wood.

RCM Cemboard is used primarily as an external sheathing or acoustic building board. Used extensively on both metal and timber frame structures, the product is used behind all types of facade solutions, as well as in many acoustic floor and roof constructions.

## Key properties
- Mass and crystalline structure provides excellent acoustic properties
- Good water repellence properties
- Improved fire performance over timber products
- High impact resistance

## Workability

RCM Cemboard can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

## Key applications
- Sheathing board metal or timber frame
- Acoustic flooring and roofing
- High impact partitioning
- Shuttering
- OEM Applications where improved strength and density are required

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Visit [www.buildingboards.co.uk](http://www.buildingboards.co.uk)
Technical Data

Nominal density 1250 - 1300kg/m²

Bending Strength (Modulus of Rupture) 9.0Mpa

Modulus of Elasticity (MoE) 4.5Mpa

Thermal Conductivity 0.26W/mk

Moisture Content 9% ±3%

Moisture Movement (EMC to Saturated) 0.15%

Fire Rating B s1, d0

Biological Resistance Highly resistant

Frost resistance 3 star

Surface Condition Front face Smooth

Back face Smooth

Durability (life expectancy – minimum) 30 years

Standard board size 2400 x 1200mm

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>10.1</td>
<td>12.5</td>
<td>14.9</td>
<td>20.1</td>
<td>22.6</td>
<td>25</td>
<td>29.9</td>
</tr>
<tr>
<td>Sound insulation (dB)†</td>
<td>29</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>33</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

Imperial and other sizes are available on request.

Product Testing and Certification

Recommended Fixing
4.8mm x 38mm wing tip self drilling fixing.
Introduction

RCM Cem + is a rigid, medium density, high performance cement bonded particle building board which is specially treated with a unique armour coating, offering improved strength, water repellence and stability when compared with conventional cement bonded particle board.

Application

Key properties

- RCM Cem + is used primarily as an external sheathing or acoustic building board. Used on both metal and timber frame structures, the product is used behind all types of facade solutions, as well as in acoustic floor and roof constructions.
- Mass and crystalline structure provides excellent acoustic properties
- Excellent water repellence properties
- Improved fire performance over timber products
- High impact resistance

Workability

- RCM Cem+ can be drilled, screwed and nailed with conventional hand tools.
- For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

Key applications

- Sheathing board metal or timber frame
- Wet rooms
- Partitions in high impact applications
- OEM Applications where improved strength and density are required

Visit www.buildingboards.co.uk
Technical Data

Nominal density 1500kg/m³
Bending Strength (Modulus of Rupture) 9.0Mpa
Modulus of Elasticity (MoE) 4.5Gpa
Moisture Content ≤9%
Moisture Movement (EMC to Saturated) 0.08% to 0.10%
Fire Rating Fire A2, DIN EN 13501-1
Biological Resistance Highly resistant
Frost resistance 4 star
Surface Condition
  Front face Smooth
  Back face Smooth
Durability (life expectancy – minimum) 30 years
Standard board size 2400 x 1200mm

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>10</td>
<td>13</td>
<td>15</td>
<td>18</td>
<td>20</td>
<td>23</td>
<td>25</td>
<td>26</td>
<td>37</td>
</tr>
<tr>
<td>Sound insulation (dB)†</td>
<td>28</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>32</td>
<td>33</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
</tbody>
</table>

Dimensional Tolerance
- Length ±2mm
- Width ±2mm
- Thickness ±0.5mm

Imperial and other sizes are available on request.

Product Testing and Certification
Cem + conforms to BS EN634 Part 1 & 2, EN13501-1 A2 Classification, EN13986 & EN318

Recommended Fixing
4.8mm x 38mm wing tip self drilling fixing.

The Orion Building, Birmingham:
8mm Cem + is used as the primary sheathing board, total quantity 1,000m².

Call 0845 130 3725 fax 0845 130 3726 or email info@rcmltd.biz
Introduction

RCM Y-wall is a flexible calcium silicate based fibre cement building board, offering excellent fire properties as well as high levels of dimensional stability.

RCM Y-wall is used primarily as an external sheathing or fire rated building board. Used extensively on both metal and timber frame structures, the product is used behind all types of facade solutions, as well in floors and roofs offering a non-combustible classification.

Application

**Key properties**
- A non-combustible classification
- Excellent water resistance properties
- Flexible and strong
- Our lightest sheathing board with improved workability

**Workability**
RCM Y-wall can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

**Key applications**
- Sheathing and fire rated linings for lightweight steel and timber frame systems
- Fire rated flooring and roofing
- Fire rated walling
- OEM Applications where improved strength and density are required
**Technical Data**

- **Nominal density**: 1200kg/m³
- **Bending Strength (Modulus of Rupture)**: 12Mpa
- **Modulus of Elasticity (MoE)**: 4.0Mpa
- **Thermal Conductivity**: 0.12W/mk
- **Moisture Content**: ≤9%
- **Moisture Movement (EMC to Saturated)**: 0.06%
- **Biological Resistance**: Highly resistant
- **Frost resistance**: 4 star
- **Surface Condition**
  - Front face: Smooth
  - Back face: Textured
- **Durability (life expectancy – minimum)**: 30 years
- **Standard board size**: 2400 x 1200mm, 1200 x 1200mm, (9mm & 12mm)

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>6</th>
<th>9</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>7.3</td>
<td>11.1</td>
<td>14.6</td>
</tr>
<tr>
<td>Sound insulation (dB)</td>
<td>24</td>
<td>29</td>
<td>31</td>
</tr>
</tbody>
</table>

**Dimensional Tolerance**
- Length: ±3mm
- Width: ±2mm
- Thickness: ±0.5mm

Imperial and other sizes are available on request. 1200 x 1200 x 9mm & 1200 x 1200 x 12mm available.

**Product Testing and Certification**
- Tested to EN 594:2011 & BS 5268-6.1³ Category 1
- Fire rated through wall solution to BS 476 part 21 & BS 476 part 22.
- BS EN ISO 17161
- BS EN ISO 1182
- Load bearing wall systems

**Recommended Fixing**
- 4.8mm x 38mm wing tip self drilling fixing.

Premier Inn, Walsall Waterfront:
- 9mm Y-wall is used as the fire rated sheathing board, total quantity used 1,800m².
**Introduction**

**RCM Multipurpose** is a highly versatile cellulose fibre cement building board, offering excellent strength, weathering and acoustic properties.

RCM Multipurpose can be used in a wide range of applications including internal and external wall linings, roof underlay, soffits, flooring, tile backer and a wide range of OEM applications.

**Key properties**
- Exceptional racking and impact strength
- Excellent weathering properties
- Wide range of thickness from 3.2mm to 12mm
- Flexibility in applications

**Workability**
RCM Multipurpose can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

**Key applications**
- Sheathing and fire rated linings for lightweight steel and timber frame systems
- Fascia’s and soffit liner
- Ceiling tiles and roofing panels
- OEM applications

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Technical Data

Nominal density 1330-1420kg/m³
Bending Strength (Modulus of Rupture) 19.0Mpa
Modulus of Elasticity (MoE) 5.6Gpa
Thermal Conductivity 0.30W/mk
Moisture Content ≤8%
Moisture Movement (EMC to Saturated) 0.06% to 0.10%
Fire Rating A1 Non-Combustible
Biological Resistance Highly resistant
Frost resistance 5 star
Surface Condition
   Front face Smooth
   Back face Textured
Durability (life expectancy – minimum) 30 years

Standard board size 2400 x 1200mm

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>4.5</th>
<th>6</th>
<th>9</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>6.2</td>
<td>8.3</td>
<td>12.4</td>
<td>16.6</td>
</tr>
<tr>
<td>Sound insulation (dB)†</td>
<td>22</td>
<td>25</td>
<td>28</td>
<td>30</td>
</tr>
</tbody>
</table>

Dimensional Tolerance
Length +1 -2mm
Width +1 -2mm
Thickness ±0.5mm

Imperial and other sizes are available on request. Soffit strips available in 1220 x 150 x 3.2mm, 1220 x 150 x 4.5mm and 2440 x 150 x 4.5mm. Multipurpose Class 0 ceiling tiles can be supplied square or bevelled edge at sizes of: 600 x 600 x 6, 9 or 12mm; 1200 x 1200 x 6, 9 or 12mm; 1220 x 1220 x 6, 9 or 12mm.

Product Testing and Certification
Multipurpose conforms to EN 12467, EN ISO 1716, EN ISO 1182:2010, EN 594:2011, BS 5268-6.1 A1 Non-combustible classification

Recommended Fixing
5mm x 32mm or 41mm Climaseal® fixing.

Glasgow Harbour:
6mm Multipurpose is used as the main lining board, total quantity used 4,000m².

Call 0845 130 3725 fax 0845 130 3726 or email info@rcmltd.biz
Render Carrier Board

**Renderflex™ & Renderflex™ LITE**

**Introduction**

**RCM Renderflex** is a high performance cellulose fibre cement building board, offering excellent strength, weathering and stability properties when used in conjunction with polymer renders.

RCM Renderflex board has been specially formulated to achieve a strong key between polymer basecoats and top coats. The unique board structure offers a high tensile strength (ILB) essential for long term durability, whilst being developed to minimise board movement reducing any stress being applied to the render system. If a non-combustible lining is required, our Renderflex Lite is the solution.

**Application**

**Typical frame makeup for timber batten or steel section**

- **Timber batten**
- **Steel section**
- **Plaster board**
- **Insulation**
- **Breather membrane**
- **Top hat section**
- **Base coat**
- **Top coat**

In chosen colour and aggregate size

**Key properties**

- Dimensional stability
- High tensile strength for long term durability
- Excellent weathering properties for exposure prior to render application
- Impact resistance

**Workability**

RCM Renderflex can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

**Key applications**

- Render carrier board
- Fascia’s and soffit

Visit [www.buildingboards.co.uk](http://www.buildingboards.co.uk)
**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Renderflex™</th>
<th>Renderflex® Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal density</td>
<td>1380kg/m³</td>
<td>1200kg/m³</td>
</tr>
<tr>
<td>Bending Strength (Modulus of Rupture)</td>
<td>18.8Mpa EMC Average</td>
<td>10.8Mpa</td>
</tr>
<tr>
<td>Modulus of Elasticity (MoE)</td>
<td>5.5Gpa</td>
<td>4.0Mpa</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.47W/mk</td>
<td>0.12W/mk</td>
</tr>
<tr>
<td>Moisture Content</td>
<td>8%</td>
<td>≤9%</td>
</tr>
<tr>
<td>Moisture Movement (EMC to Saturated)</td>
<td>0.06% to 0.08%</td>
<td>0.06%</td>
</tr>
<tr>
<td>Biological Resistance</td>
<td>Highly resistant</td>
<td>Highly resistant</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>5 star</td>
<td>4 star</td>
</tr>
<tr>
<td>Surface Condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front face Smooth</td>
<td>Smooth</td>
<td>Smooth</td>
</tr>
<tr>
<td>Back face Textured</td>
<td>Textured</td>
<td>Textured</td>
</tr>
<tr>
<td>Durability (life expectancy – minimum)</td>
<td>30 years</td>
<td>30 years</td>
</tr>
<tr>
<td>Standard board size</td>
<td>2400 x 1200mm</td>
<td>2400 x 1200mm</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>6 9 12</td>
<td>6 9 12</td>
</tr>
<tr>
<td>Weight (kg/m³)</td>
<td>8.3 12.4 16.6</td>
<td>7.3 11.1 14.6</td>
</tr>
<tr>
<td>Sound insulation (dB)†</td>
<td>25 28 30</td>
<td>24 29 31</td>
</tr>
<tr>
<td>Dimensional Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>+1 -2mm</td>
<td>+3mm</td>
</tr>
<tr>
<td>Width</td>
<td>+1 -2mm</td>
<td>+2mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>+0.5mm</td>
<td>+0.5mm</td>
</tr>
</tbody>
</table>

Imperial and other sizes are available on request.

**Product Testing and Certification**

Renderflex conforms to EN 12467, EN 13823:2010, EN 13501, EN ISO 1716

**Recommended Fixing**

5mm x 32mm or 41mm Climaseal® fixing.

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**Langdon hospital:**

12mm Renderflex is used as the render carrier board, total quantity used 15,000m².
Introduction

Supertech™ is a simple to install rainscreen cladding system offering two surface finishes, permanent wood grain and smooth texture, that offers an attractive alternative to traditional timber boarding and PVCu Cladding.

Key properties
- Excellent appearance, without the imperfections seen in timber facades
- Resistant to rot, fungus or pest attacks
- Fire rated Class 0
- Minimum life expectancy 30 years
- Low maintenance and long performance life

Workability
RCM Supertech can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

Key applications
- Supertech readily accepts a variety of surface finishes including paint and textured coatings

Visit www.buildingboards.co.uk
## Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal density</td>
<td>1300kg/m³</td>
</tr>
<tr>
<td>Bending Strength (Modulus of Rupture)</td>
<td>≤17.0Mpa</td>
</tr>
<tr>
<td>Modulus of Elasticity (MoE)</td>
<td>≤5.5Gpa</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.30W/mk</td>
</tr>
<tr>
<td>Moisture Content</td>
<td>≤8%</td>
</tr>
<tr>
<td>Moisture Movement (EMC to Saturated)</td>
<td>0.08%</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>BS 476 Part 6 &amp; 7 Class 0 material</td>
</tr>
<tr>
<td>Biological Resistance</td>
<td>Highly resistant</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>5 star</td>
</tr>
<tr>
<td>Surface Condition</td>
<td></td>
</tr>
<tr>
<td>Front face</td>
<td>Natural or painted</td>
</tr>
<tr>
<td>Back face</td>
<td>Natural or painted</td>
</tr>
<tr>
<td>Durability (life expectancy – minimum)</td>
<td>30 years</td>
</tr>
<tr>
<td>Standard board size</td>
<td>3660 x 230mm or 3050 x 190mm</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>7.5</td>
</tr>
<tr>
<td>Weight (kg/m²)</td>
<td></td>
</tr>
<tr>
<td>Wood grain natural</td>
<td>10.4</td>
</tr>
<tr>
<td>Wood grain painted/stained</td>
<td>10.6</td>
</tr>
<tr>
<td>Smooth natural</td>
<td>11.7</td>
</tr>
<tr>
<td>Smooth painted/stained</td>
<td>11.9</td>
</tr>
</tbody>
</table>

### Product Testing and Certification
Supertech conforms to BS EN12467.
Within this section of our brochure, we have endeavoured to demonstrate some of the basic layouts of the Supertech plank.

The product is typically fixed on timber battens back to a sheathing board, supported on either a timber or metal framed construction. The support battens may also be fixed back onto a Masonry substrate if applicable.

Nailing Positions

- Full range of powder coated trims are available.

Application
Stained Colour Finishes

- RCM/WS01 Pine
- RCM/WS02 Light Oak
- RCM/WS03 Ceder
- RCM/WS04 Dark Oak
- RCM/WS05 Walnut
- RCM/WS06 Ebony

Painted Colour Finishes

- RCM/OP01 White
- RCM/OP02 Light Grey
- RCM/OP03 Beige
- RCM/OP04 Cream
- RCM/OP05 Blue
- RCM/OP06 Green
- RCM/OP07 Black
- RCM/OP08 Graphite Grey
- RCM/OP09 Dark Grey
- RCM/OP010 Brown
- RCM/OP011 Lilac Blue
- RCM/OP012 Lavender Blue
- RCM/OP013 Dark Brown
- RCM/OP014 Sand Yellow
- RCM/OP015 Red
- RCM/OP016 Fir Green

RCM are also able to coat our product to any specified RAL or BS colour. The colours shown above are simulated. Variations in colour may occur. For an accurate colour assessment please request actual samples from RCM.

RCM are able to provide an extensive range of system details, showing system make up and interfaces.

For further information on this, please contact our technical departments on 0845 130 3725 or email technical@rcmltd.biz

Call 0845 130 3725 fax 0845 130 3726 or email info@rcmltd.biz
**Introduction**

RCM Caltech™ is an insulated soft liner panel which consists of a combination of either our Siltech calcium silicate board or our Multipurpose Cellulose fibre cement building board with a choice of insulation mediums bonded together.

RCM Caltech is primarily used in soffit liner application to bring un-insulated floor structures up to the current building regulations thermal requirements. Available with a choice of boards in a wide range of thicknesses, RCM Caltech offers we believe the most extensive range of combinations available, all bonded with a ultrahigh performance external grade adhesive.

**Application**

- **Key properties**
  - Extensive range of combinations available
  - Impact resistant boards from 3.2mm up to 12mm
  - 4 insulation mediums available in range of thicknesses
  - Long term durable bond

- **Workability**
  RCM Caltech can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details.

- **Key applications**
  - Thermal soffit liner composite panels

Visit [www.buildingboards.co.uk](http://www.buildingboards.co.uk)
# Technical Data

## Calcium Silicate Board

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal density</td>
<td>1150kg/m³</td>
</tr>
<tr>
<td>Bending Strength (Modulus of Rupture)</td>
<td>≤9 N/mm²</td>
</tr>
<tr>
<td>Modulus of Elasticity (MoE)</td>
<td>4.2Mpa</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.14W/mk</td>
</tr>
<tr>
<td>Moisture Content</td>
<td>≤9%</td>
</tr>
<tr>
<td>Moisture Movement (EMC to Saturated)</td>
<td>≤0.15%</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>BS 476 Part 4 Non-Combustible</td>
</tr>
<tr>
<td>Biological Resistance</td>
<td>Highly resistant</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>3 star</td>
</tr>
<tr>
<td>Durability (life expectancy – minimum)</td>
<td>30 years</td>
</tr>
<tr>
<td>Standard board size</td>
<td>2400 x 1200mm, 1200 x 1200 (9mm &amp; 12mm)</td>
</tr>
<tr>
<td>Insulation Medium</td>
<td></td>
</tr>
<tr>
<td>Thermal conductivity W/mK</td>
<td>0.035 0.038 0.022</td>
</tr>
<tr>
<td>Dry density Kg/m³</td>
<td>100 15 42</td>
</tr>
<tr>
<td>Compressive strength @10% compression kN/m²</td>
<td>17 70 &gt;100</td>
</tr>
<tr>
<td>Standard board sizes</td>
<td>1200 x 600mm, 1200 x 1200mm &amp; 2400 x 1200mm</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>6mm board with 50, 60, 70, 80, 90 &amp; 100mm insulation</td>
</tr>
</tbody>
</table>

Imperial and other sizes are available on request. Data on insulation may vary slightly depending on specific insulation supplier of a generic insulation medium.

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**Tesco multi-storey car park:**
Caltech is used to thermally upgrade the concrete slab, total quantity used 8,000m².

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Call 0845 130 3725 fax 0845 130 3726 or email info@rcmltd.biz
Introduction

Siltech is a non-combustible flexible calcium silicate building board which provides superior workability due to a unique fibre reinforced formulation.

RCM Siltech can be used in an extensive range of applications from fire rated partitions, non-combustible ceiling tiles, boiler encasing, door lining, timber frame fire rated floors / ceilings as well as an extensive range of OEM applications.

Application

Key properties
- Fire resistance
- Ease of working
- Highly flexible and dimensionally stable

Workability
RCM Siltech can be drilled, screwed and nailed with conventional hand tools. For cutting the product in any volume, we recommend the use of a RCM Poly crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Please contact our technical department for details. technical department for details.

Key applications
- Fire rated partitions
- Fire rated ceilings and floors
- Non-combustible ceiling tiles
- Fire rated door panels
- OEM applications

Visit www.buildingboards.co.uk
### Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal density</td>
<td>1150 kg/m³</td>
</tr>
<tr>
<td>Bending Strength (Modulus of Rupture)</td>
<td>≤9 N/mm²</td>
</tr>
<tr>
<td>Modulus of Elasticity (MoE)</td>
<td>4.0 MPa</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.14 W/mK</td>
</tr>
<tr>
<td>Moisture Content</td>
<td>≤9%</td>
</tr>
<tr>
<td>Moisture Movement (EMC to Saturated)</td>
<td>≤0.15%</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>BS 476: Part 4 non-combustible &amp; BS 476: Part 21 &amp; 22</td>
</tr>
<tr>
<td>Biological Resistance</td>
<td>Highly resistant</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>3 star</td>
</tr>
<tr>
<td>Surface Condition</td>
<td></td>
</tr>
<tr>
<td>Front face</td>
<td>Smooth</td>
</tr>
<tr>
<td>Back face</td>
<td>Textured</td>
</tr>
<tr>
<td>Durability (life expectancy – minimum)</td>
<td>30 years</td>
</tr>
<tr>
<td>Standard board size</td>
<td>2400 x 1200mm, 2440 x 1220mm</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>6, 9, 12, 15</td>
</tr>
<tr>
<td>Weight (kg/m²)</td>
<td>7.1, 10.4, 13.8, 17.1</td>
</tr>
<tr>
<td>Sound insulation (dB)</td>
<td>24, 28, 31, 33</td>
</tr>
<tr>
<td>Dimensional Tolerance</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>±2 mm</td>
</tr>
<tr>
<td>Width</td>
<td>±2 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>6mm: +0.3mm / -0.5mm</td>
</tr>
<tr>
<td></td>
<td>9-15mm: +0.2mm / -0.4mm</td>
</tr>
</tbody>
</table>

- Imperial and other sizes are available on request.
- Siltech door facings are available in sizes of 2134 x 914 x 6, 9 or 12mm.
- Siltech non-combustible ceiling tiles can be supplied square or bevelled edge at sizes of: 600 x 600 x 6, 9 or 12mm; 1200 x 1200 x 6, 9 or 12mm; 1220 x 1220 x 6, 9, 12mm.

**Product Testing**

Siltech has been tested by Warrington Fire Research for 60 and 120 min partitions. Siltech conforms to BS 476 Part 4 & BS 476 Part 22.

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**Westfield shopping centre:**

6mm Siltech is used as the soffit lining on the Westfield shopping centre, total quantity used 60,000m².

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Call 0845 130 3725  fax 0845 130 3726 or email info@rcmltd.biz
Fixings

Fixing pattern is indicative based on 600mm centres. The final fixing pattern depends on wind loading, type of fixings plus loading to be applied.

Exposed Joints

Internal Dry Areas

Board Fixing Horizontally

Board Fixing Vertically

For extra details on full installation please call our technical department on 0845 130 3725

Minimum distance of fixings from board edge
Storage

Always stack boards on a smooth flat surface clear of the ground.

If boards need to be stacked, always ensure blocks properly align.

Boards must never be stored on edge or upright. Protect edges from chipping. Loose storage of boards on their edges is not recommended.

Store boards in dry conditions and under cover, fully protected from the weather and other trades at all times.

Cover boards to keep dry prior to fixing. If sheets do become wet, allow to dry thoroughly prior to fixing.

Handling

When handling individual boards from stack, slide sideways and lift by spread arms on long edges to give even support and prevent excessive flexing of the board. Do not drag sheets off the stack. Protection gloves and footwear are recommended when moving boards. Boards are heavy; ensure H & SE guidelines are followed.

Cutting

Use of a fine tooth hand saw or a power saw is recommended. Contact RCM for supply of recommended cutting blade.

Support both ends of the board when cutting to avoid breakaway.

When drilling, cutting or sanding cement manufactured products, wear safety glasses and approved dust mask or respirator. During clean up, contain dust by vacuum or wet down methods.

Safe disposal also requires containment of dust. Long term exposure to dust can be harmful to health. All suitable health and safety issues should be implemented. Health and safety data sheets available on request.
A selection of construction projects supplied with building boards from RCM.

Southern General Hospital
Brookfield Limited
30,000m² 9mm Y-Wall

Tesco Woolwich
Willmott Dixon
15,000m² 9mm Y-Wall

Scottish Exhibition Centre
Martifer UK Limited
25,000m² 10mm Cemboard

Langdon Hospital
Interserve Limited
15,000m² 12mm Renderflex
15,000m² 9mm Y-Wall

Bournville College
Shepherd Construction
5,000m² 10mm Cemboard

Aston University
Bam Construction
12,000m² 10mm Cemboard

Oasis Academy
Carillion Limited
3,000m² 10mm Cemboard

Greenwich Reach
Galliard Homes
15,000m² 10mm Cemboard

Tesco Superstore
Bowmer & Kirkland
15,000m² 6mm Siltech

Dumfries AMHU
Laing O’Rouke
3,000m² 9mm Renderflex

Central Foundation School
Bouygues Limited
2,000m² 12mm Cemboard

White City Shopping Centre
Westfield Limited
70,000m² 6mm Siltech

Woodbury Estate
Berkeley Homes
3,000m² 9mm Y-Wall

Clapham High Street
United House
10,000m² 6mm & 10mm Cemboard

Mussleburgh Health Centre
Dawn Construction Limited
4,000m² 12mm Cemboard

Nixon Court
Willmott Dixon Housing
6,500m² 10mm Cemboard

Bournville College
Shepherd Construction
5,000m² 10mm Cemboard

Aston University
Bam Construction
12,000m² 10mm Cemboard

Oasis Academy
Carillion Limited
3,000m² 10mm Cemboard

Greenwich Reach
Galliard Homes
15,000m² 10mm Cemboard

Tesco Superstore
Bowmer & Kirkland
15,000m² 6mm Siltech

Dumfries AMHU
Laing O’Rouke
3,000m² 9mm Renderflex

Central Foundation School
Bouygues Limited
2,000m² 12mm Cemboard

White City Shopping Centre
Westfield Limited
70,000m² 6mm Siltech

Woodbury Estate
Berkeley Homes
3,000m² 9mm Y-Wall

Clapham High Street
United House
10,000m² 6mm & 10mm Cemboard

Mussleburgh Health Centre
Dawn Construction Limited
4,000m² 12mm Cemboard

Nixon Court
Willmott Dixon Housing
6,500m² 10mm Cemboard