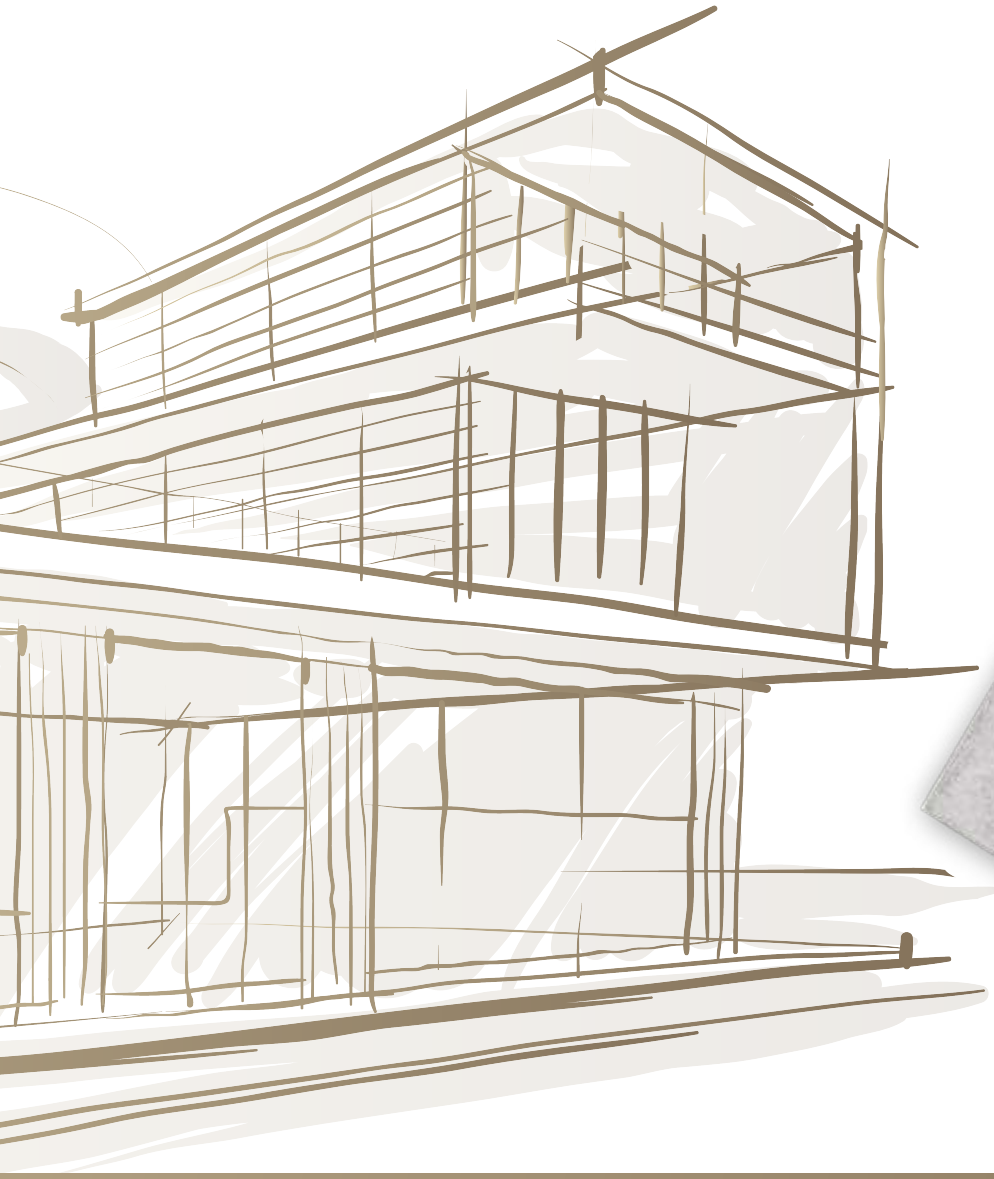
CEM GOLD

Building board for interior and exterior applications



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Rainscreen Cladding | Steel Frame Systems | Modular Build | SIP Panels

FIRE RESISTANT

HIGH IMPACT STRENGTH

WEATHER RESISTANT

STRONG AND EASY TO USE

MOISTURE PROTECTION

ACOUSTIC REDUCTION

LIGHT STEEL FRAME ASSOCIATION
SUPPLY CHAIN MEMBER

STRUCTURAL TIMBER ASSOCIATION
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building products ipp

Introduction

Cemgold is manufactured from a homogeneous mixture of Portland Cement, high purity silica sand and cellulose reinforcing fibres. These materials are mixed and laid onto carrier plates which manufacture the boards to the required thickness, the boards are then conditioned to ensure the correct moisture content and checked for quality assurance.

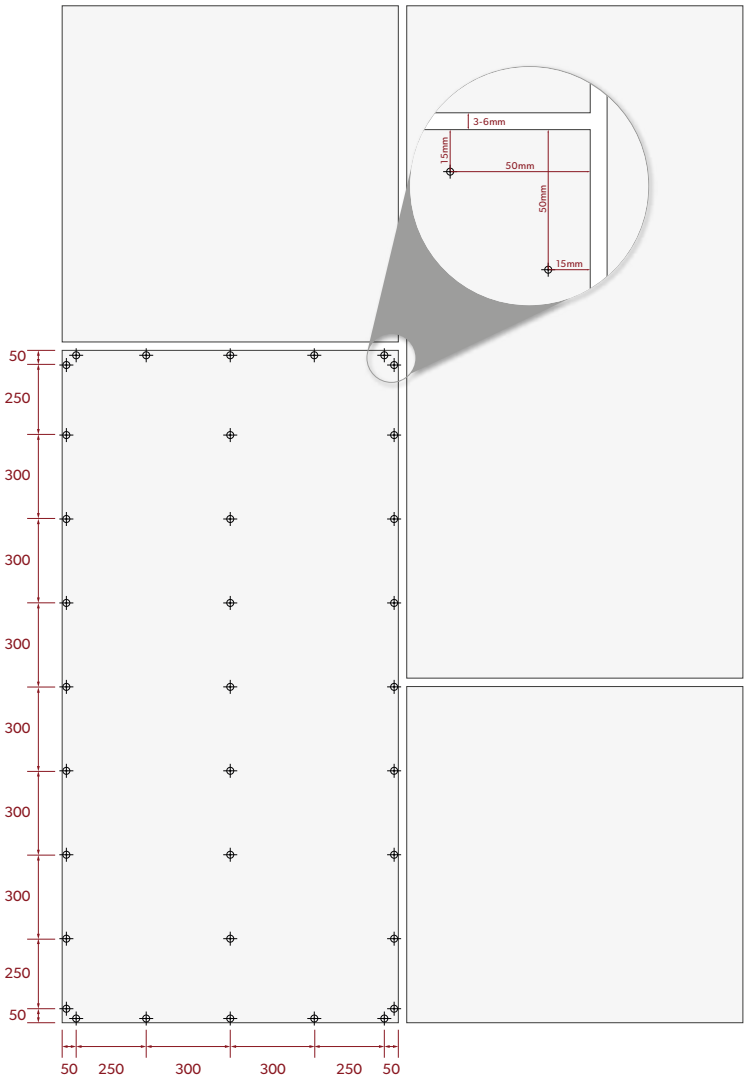
Applications

Cemgold has excellent impact resistance, and very good acoustic properties.
Its durability and high manufacturing tolerances make it ideal for off-site, modular and linings for rainscreen cladding projects. Cemgold can be used as an external sheathing board in structures under 18m in height and can be used behind many different types of façades.

Technical Information

Standard Board Size (mm)	1200 x 2400		
Thickness (mm)	10	12	18
Weight	38kg	45kg	67kg
Appearance	Smooth surface with particulate core		
Edges	Square Edge		
Density	1309 kg/m^3		
Moisture Content	9% +/– 3%		
Surface Alkalinity	ph 9.9		
Durability	30 Years (Life expectancy - Minimum)		
Fire Rating	BS 476 Part 6 and 7 Classified as Class '0' material		
Thickness Swelling	<2%		
Thermal Conductivity	0.20 W/m^{2}c		
Dimensional Tolerance	Length ± 2mm		Width ± 2mm
Sound Reduction	10mm 31dB		12mm 31cB
Steel Frame	4.8mm x 38mm wing tip self-drilling fixings		
Timber Frame	4.2mm x 42mm self-drilling fixings		

Installation details

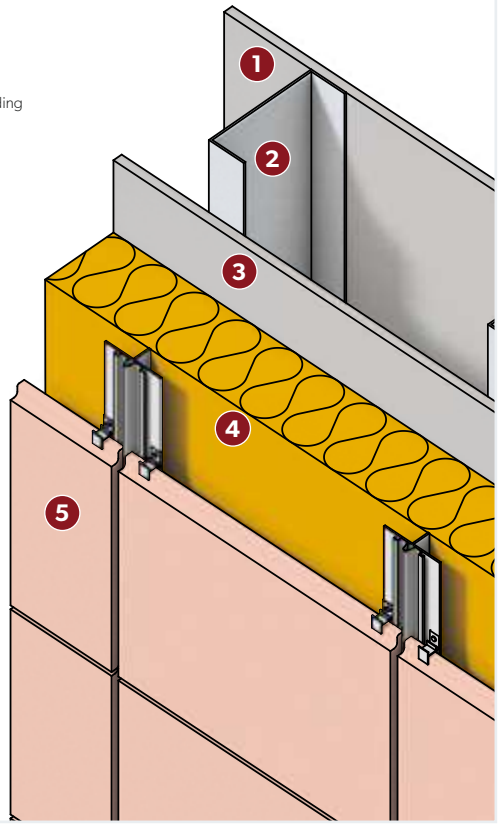


The diagram to the left acts as a guide showing the most common applications when installing Cemgold on 600mm centres:

- → Cemgold should be installed in a brick bond fashion, as shown in the diagram.
- → The minimum board width should be no less than 600mm and it is not recommended to install Cemgold on four way joints.
- → For **steel frame** installation use coutersunk steel or galvanised self-tapping Screws 3.5mm - 4.2mm diameter 2.5 to 3 times thickness of board.
- → When fixing into **timber frame** use a 4.2mm x 42mm fixing.
- → The corner fixings should be 50mm in from the edges.
- → Allow a gap of 3-6mm between all joints to allow for expansion and movement.
- → Joints should be filled with a FR sealant, alternatively joints can be covered with a 50mm foil tape.
- → Cemgold should be cut with tungsten carbide tipped blades at 3000 - 4000rpm boards can be sawn, drilled, planed, routed nailed or screwed.
- → When used as a carrier board for external applications designers should pay particular attention to wind loadings. Please consult with IPP and the Structural Engineer for guidance on fixings.

Rainscreen Cladding

1. Magply
2. SFS
3. Cemgold
4. Insulation
5. Rainscreen Cladding



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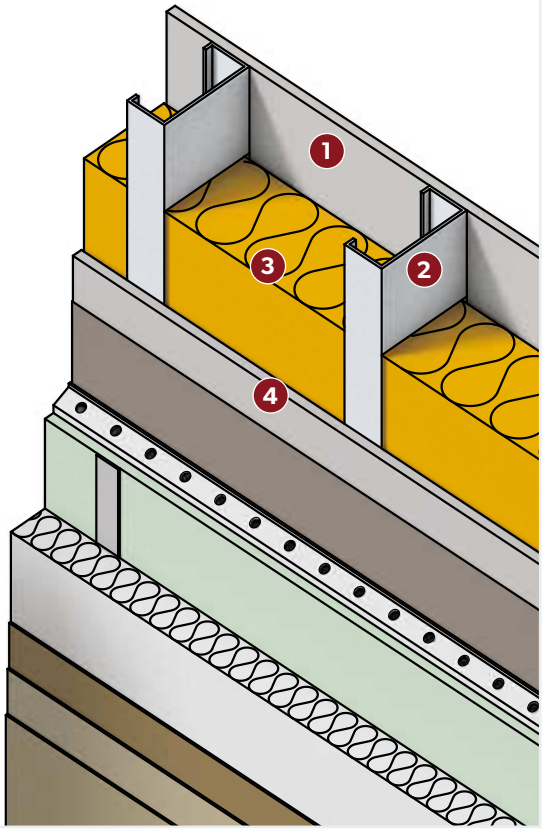


Conformity

Cemgold conforms with the requirements of BS EN 634 - 2 1997 Cement Bonded particle boards. The information contained in this publication is based upon the company's general experience and knowledge. Due to factors beyond our knowledge and control no warranty is given or implied with respect to such information.

Appearance of Cemgold can vary so we advise that you ask for samples prior to specification or purchase.

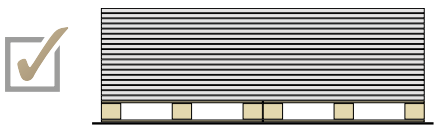
Transport and Storage

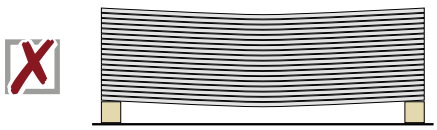
Cemgold is delivered secured to a pallet, with the edges and corners protected. Boards should be carried vertically to prevent stress and/or damage to the boards.

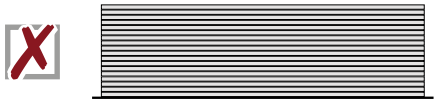
Cemgold should be stored flat either on the pallet used for delivery or supports with 800mm centres. Cemgold should never be stored upright or on its edge.

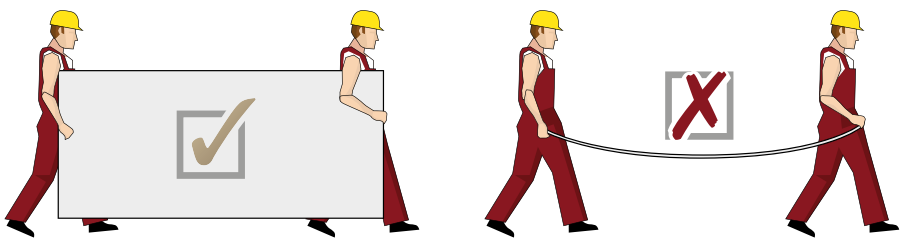
Cemgold has an ex-works moisture content of 9% +/- 3% and is in equilibrium when the temperate is 20*C with relative air humidity of 50-60%.

Cemgold adapts to the ambient humidity level, therefore to adjust to its working conditions it should be allowed to acclimatise for 24-48 hours prior to installation.









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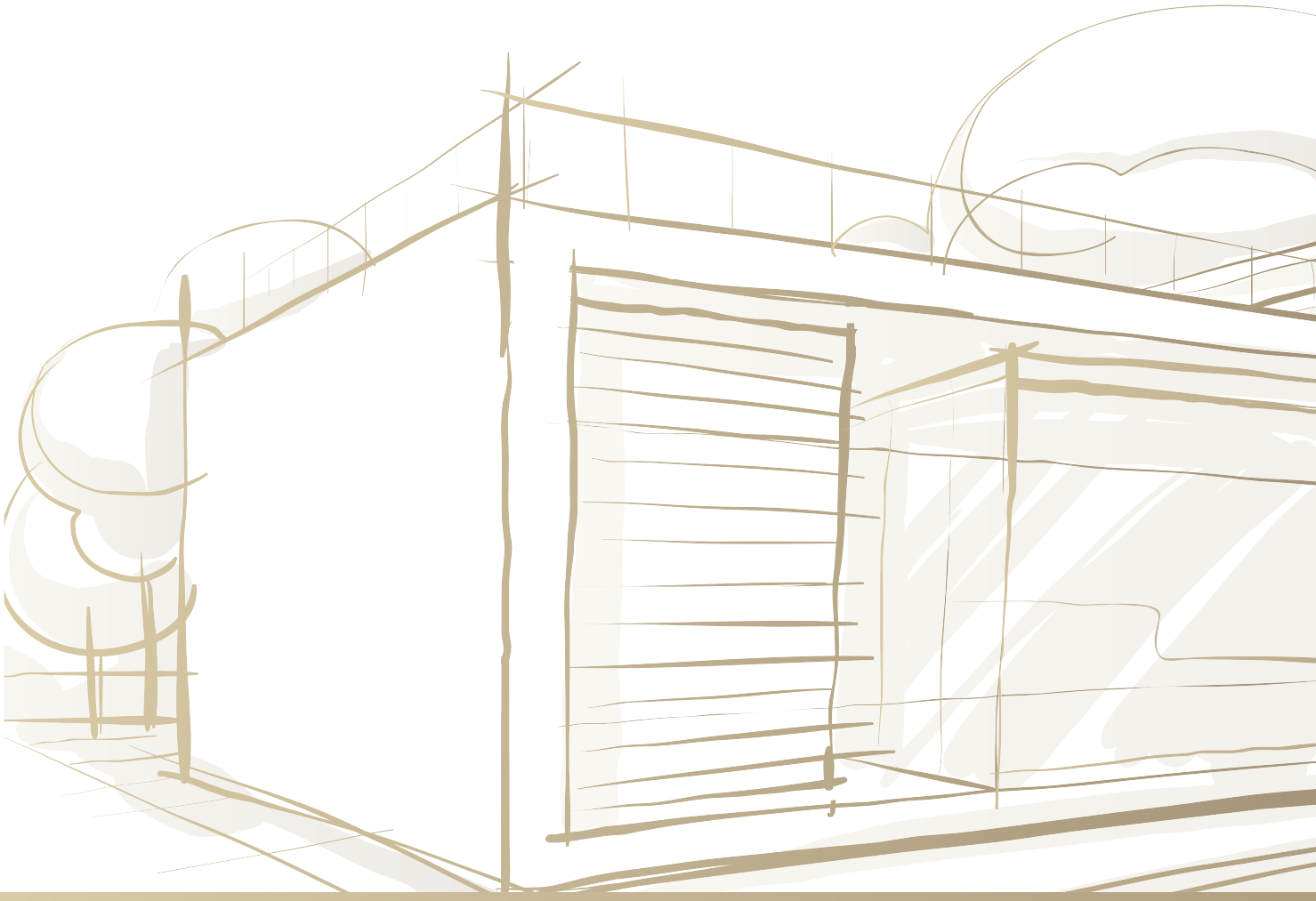

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