

NEW!



Cementboard *PRO*

POROLITE



SCG Cementboard *PRO*

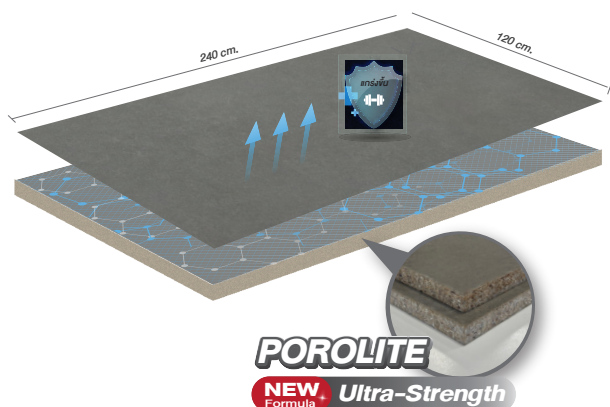
Cement board is a product that combines the best properties of cement and wood, resulting in panels that offer flexibility, strength, durability, water resistance, and are suitable for both interior and exterior applications.

SCG Cementboard PRO is developed with a new Porolite-based formula, a proprietary innovation exclusively owned by SCG. It enhances the density of the internal structure, making the board stronger and more durable. The board is designed for applications requiring high structural stability, reduces deflection, and improves load-bearing performance.

In addition, it meets safety standards through asbestos-free manufacturing and contains no substances harmful to users.

Product details

- Smooth, even surface for a refined appearance similar to plaster, ideal for applications requiring flat panel finishes.
- Strong, durable, and lighter in weight with the Porolite formula, enhancing board stability and reducing deflection.
- Versatile applications for both interior and exterior use, including ceilings, partition walls, lightweight flooring, extensions, and decorative works.
- Easy, convenient, and fast installation.





Size , Thickness and Weight

Standard

Thickness (mm.)	6	8	9	10	12	16	18	20	24
1200 x 2400 mm. Weight (kg. / Sheet)	24	32	-	40	48	65	73	81	97
1220 x 2440 mm. Weight (kg. / Sheet)	8.3	33	37.5	42	50	67	75	83	100
Weight (kg. / Sq.m.)	9.4	11.1	12.6	13.9	16.7	22.6	25.2	28.1	33.7

Features and Advantages of SCG Cementboard PRO



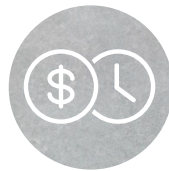
Soundproof



Thermal insulation



Fire resistance



Saving cost



Insect resistance



Asbestos free



Practical installation



Eco friendly



Weather durability

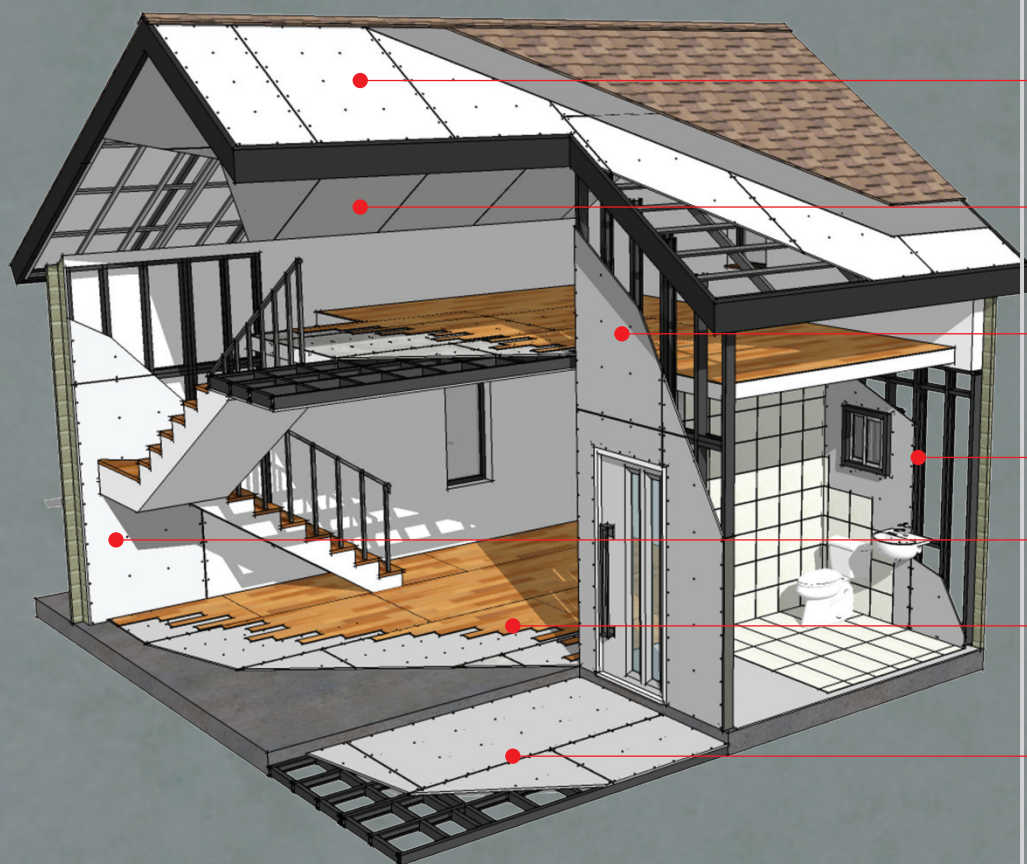
Uses for different thicknesses of SCG Cementboard PRO

Thickness (mm.)	6	8	9	10	12	16	18	20	24
Sub-Roof	✓				✓	✓			
External Wall / Wall System				✓	✓	✓	✓	✓	✓
External / Internal Floor						✓	✓	✓	✓
Internal Wall	✓	✓	✓	✓					
Internal Wall with Covering					✓				
Floor Covering		✓	✓	✓	✓				

SCG Cementboard *PRO*

INNOVATION IDEA @ HOME

POROLITE **NEW** Formula **Ultra-Strength**



Sub-Roof
Thickness 12-16 mm.

Ceiling
Thickness 8 mm.

External Wall / Wall system
Thickness 10-24 mm.

Internal Wall with Covering
Thickness 12 mm.

Internal Wall
Thickness 8-10 mm.

Floor Coverings
Thickness 8-12 mm.

External / Internal Floor*
Thickness 16-24 mm.

*Surface coating following on page 13

Technical Data

Specific Properties	Unit	TIS.878-2537	SCG Cementboard (Average value from test)
Density	kg. / m. ³	≥ 1,000	1,300
Modulus of Elasticity (MOE)	N / mm. ²	≥ 4,500	≥ 6,000
Modulus of Rupture (MOR)	N / mm. ²	≥ 9	≥ 12.5
Tensile Strength (perpendicular to surface)	N / mm. ²	≥ 0.5	≥ 0.6
Moisture Content	%	9 – 15	9 – 15
Thickness Swelling (after 24 hours immersion)	%	≤ 2	0.6
Thermal Conductivity (K)	W / m°C	≤ 0.25	0.1

Other properties

Specific information	Unit	SCG Cementboard (Average value from test)
Water absorption rate (after 24 hours immersion in water)	%	10
Acoustic reduction rating	dB	30 – 35
pH Measure	pH	12

Special Features

Fire Resistance

Since SCG Cementboard has a high ratio of cement components, it has resist to fire damage for 1 or 2 hours. The product has already passed BS 476 part 6 & 7 standards.

Soundproof

High density makes SCG Cementboard efficient in lowering sound transmission, proved by STD 41, 50 and 55 tests.



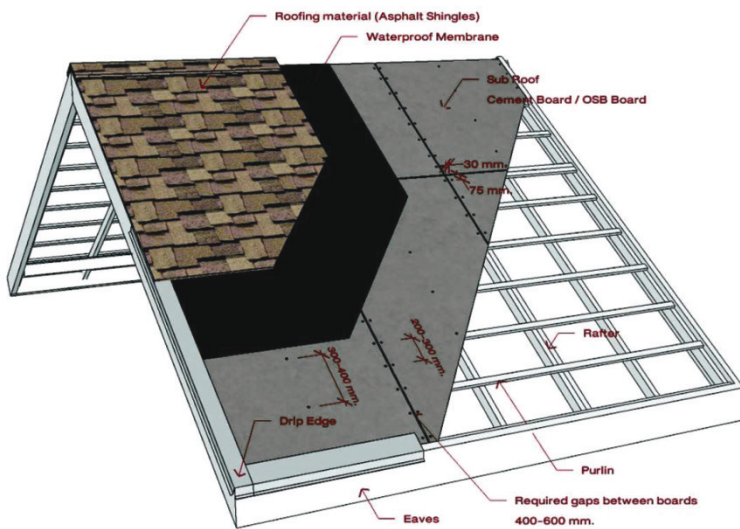
SCG Cementboard *PRO*

INNOVATION IDEA @ HOME

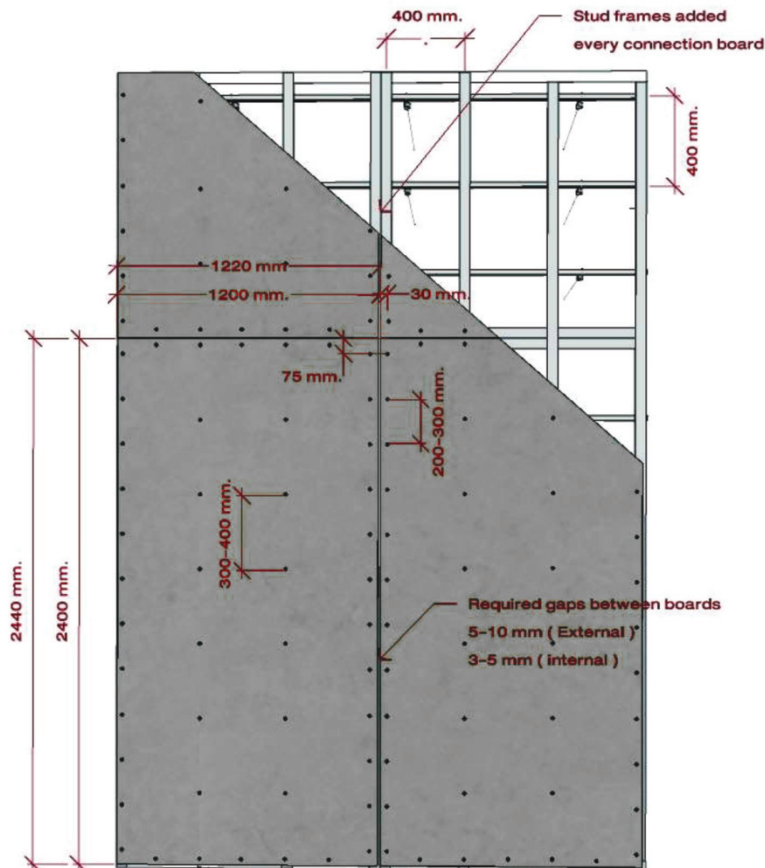
POROLITE **NEW** Formula **Ultra-Strength**



Sub-Roof

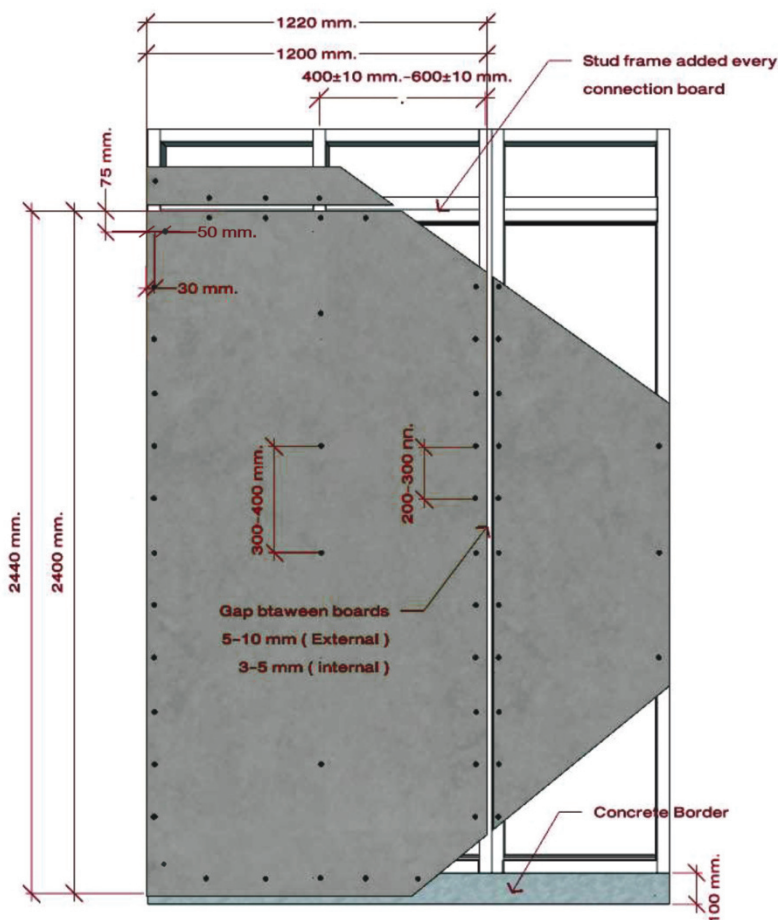


Thickness	⬡ 12-16 mm, thickness required
Stud Framing	⬡ Directions by Roof Tile Manual
Spacing	⬡ Directions by Roof Tile Manual
Installation	⬡ Roof shingle/Wood - board on purlins ⬡ Roof shingle tile - board under purlins ⬡ Required gaps for each board at 5-10 mm., covered with sealing substance
Fastening	⬡ 200-300 mm. space along the edge for each screwed point ⬡ 300-400 mm. intervals along the central area of the board ⬡ 75 mm. space from the corner while 30 mm. from the edge
Surface Covering	⬡ Apply water proofing substance coated membrane to prevent water and humidity before roof tile installation



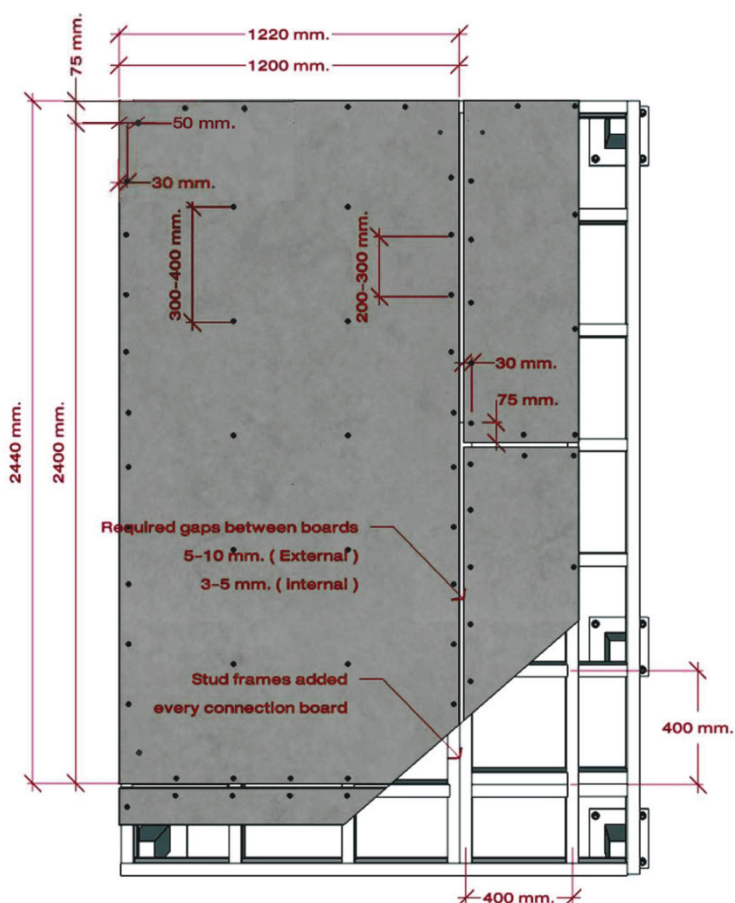
Ceiling

Thickness	⬡ 8 mm, recommended for general use
Stud Framing	⬡ Wooden stud frame with 1.5 x 3 inches ⬡ Frames placed on every 400±10 mm. to 600±10 mm.
Installation	⬡ Board placed with balance on stud frame required gaps between boards at 3-5 mm. ⬡ Stud frames added for every board connection
Fastening	⬡ Gaps and holes covered by polyurethane sealant ⬡ Pilot holes done only by drilling ⬡ 200-300 mm. space along the edge for each screwed point ⬡ 300-400 mm. intervals along the central area of the board ⬡ 75 mm. space from the corner while 30 mm. from the edge
Painting and coating	⬡ Clean with damp cloth before painting ⬡ Apply primer at least one ⬡ Paint with 100% acrylic color (recommended) ⬡ For glossy look, apply semi-glossy acrylic / polyurethane at least twice



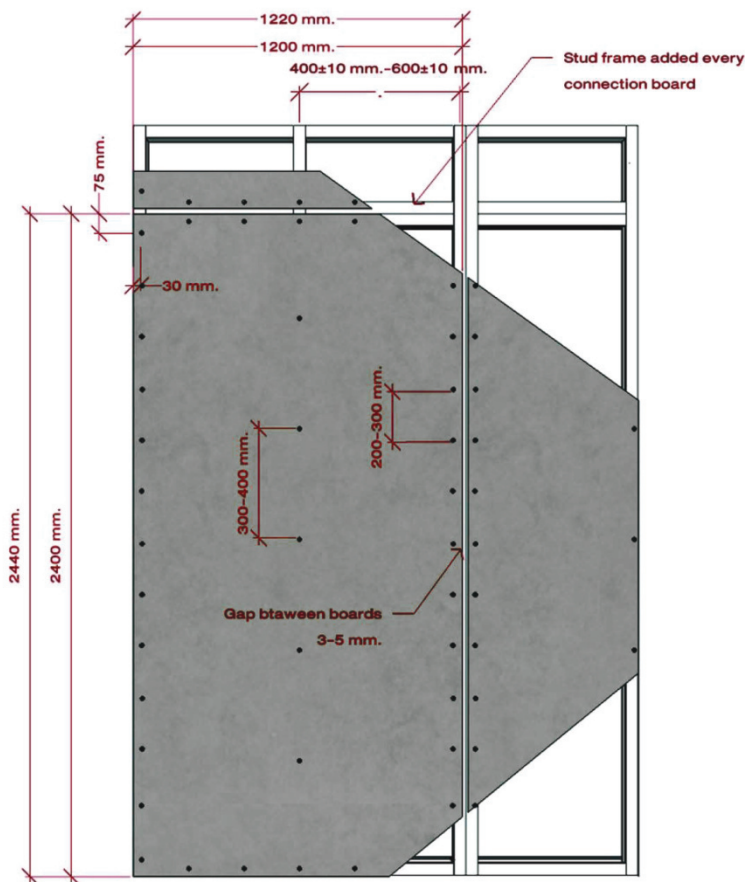
External Wall

Thickness	10-12 mm. recommended for general use - More than 12 mm. recommended for free surface exposure
Stud Framing	- Steel or steel-tubed frame with 3 inches required (and more than 2.3 mm. thickness) - Galvanized frames with 0.75 - 1 mm. thickness with at least 275 g/sq.m. for zinc coat
Spacing	- Vertical frames with 400 ± 10 mm. to 600 ± 10 mm. while horizontal ones of 2440 mm. or 2400 mm. 100 mm. wall height from the floor to keep boards and steel studs away from water which will make them rusty - Frames placed on every 400 ± 10 mm. to 600 ± 10 mm. - Stud frames added for every board connection - Board placed with balance on stud frame - Required gaps for each board at 5-10 mm.
Fastening	- Gaps and holes covered by polyurethane sealant - Pilot holes done only by drilling 200-300 mm. space along the edge for each screwed point 300-400 mm. intervals along the central area of the board 75 mm. space from the corner while 30 mm. from the edge
Painting and coating	- Clean with damp cloth before painting - Apply primer at least one - Paint with 100% acrylic color (recommended) - For glossy look, apply semi-glossy acrylic / polyurethane at least twice



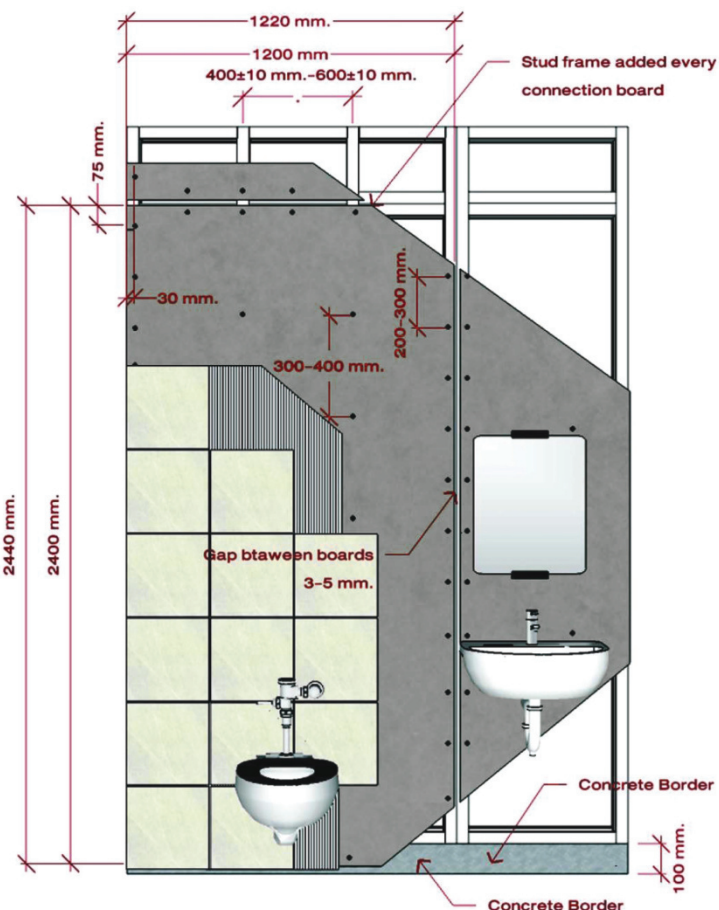
External / Internal Floor

Thickness	16-24 mm. for general use - More than 16 mm. recommended for floor underlay
Stud framing	Steel and Galvanized frame directions by site engineer technical specification
Spacing	Frames placed on every 400 ± 10 mm. x 400 ± 10 mm.
Installation	- Board placed with balance on stud frame - Place the board in 1:2 pattern stack - Required gaps between boards at 5-10 mm. (External) and 3-5 mm. (Internal) - Stud frames added for every board connection
Fastening	- Gaps and holes covered by polyurethane sealant - Pilot holes done only by drilling 200-300 mm. space along the edge for each screwed point 300-400 mm. intervals along the central area of the board 75 mm. space from the corner while 30 mm. from the edge
Painting and coating	- Clean with damp cloth before painting - Apply primer at least one - Paint with 100% acrylic color (recommended) - For glossy look, apply semi-glossy acrylic / polyurethane at least twice - Incase of cover by ceramic tiles / laminate/ carpet e.g. (Directions by each materials product manual)



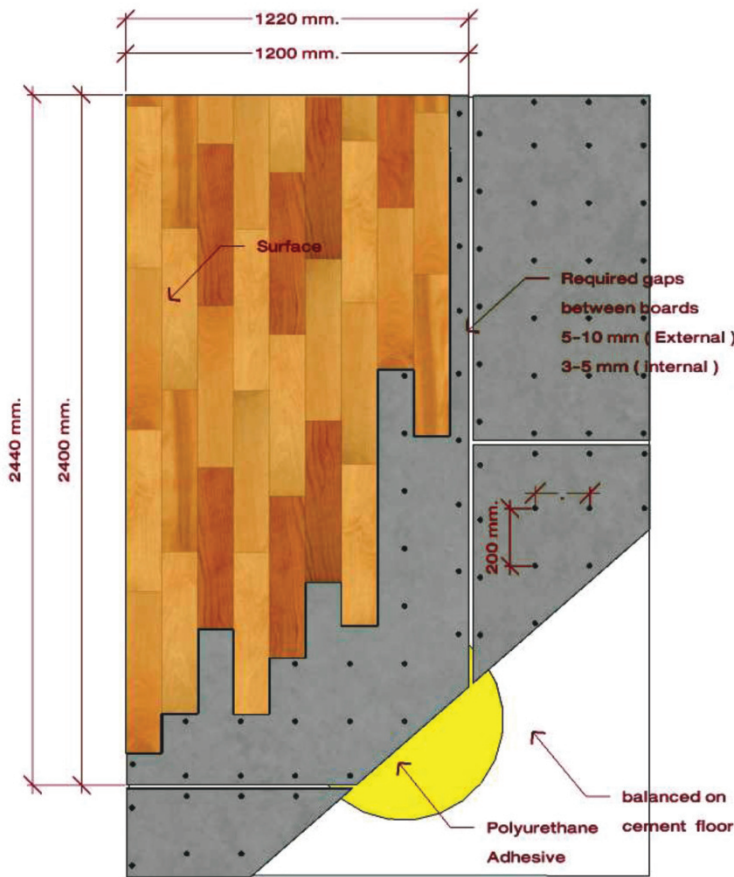
Internal Wall

Thickness	8-12 mm. for general use - More than 12 mm. recommended for underlaying wall
Stud framing	- Wooden stud frame with 1.5x3 inches - Steel stud frame with at least 1.2 mm. thickness - Galvanized frame in C74
Spacing	Vertical frames with 400±10 mm. to 600±10 mm. while horizontal ones of 2440 mm. or 2400 mm.
Installation	- Stud frame added for each board connection - Board placed with balance on stud frame - Required gaps between boards at 3-5 mm
Fastening	- Gaps and holes covered by polyurethane sealant - Pilot holes done only by drilling 200-300 mm. space along the edge for each screwed point 300-400 mm. intervals along the central area of the board 75 mm. space from the corner while 30 mm. from the edge
Painting and coating	- Clean with damp cloth before painting - Apply primer at least one - Paint with 100% acrylic color (recommended) - For glossy look, apply semi-glossy acrylic / polyurethane at least twice



Internal Wall – Covering with Ceramic tiles

Thickness	12 mm. thickness require
Stud Framing	Steel or steel-tubed frame with 3 inches required (and more than 2.3 thickness)
Spacing	- Vertical frames with 400±10 mm. to 600±10 mm. while horizontal ones of 2440 mm. or 2400 mm. put on wall with 100 mm. - Stud frames added for every connection and hanging point (e.g. basin, sanitary ware) - Board placed with balance on stud frame - Required gaps for each board at 3-5 mm.
Fastening	- Gaps and holes covered by polyurethane sealant - Pilot holes done only by drilling 200-300 mm. space along the edge for each screwed point 300-400 mm. intervals along the central area of the board 75 mm. space from the corner while 30 mm. from the edge
Surface Covering	- Clean with damp cloth - Apply primary bonding and setting ready within 1-4 hours then apply adhesive cement plaster or ready-to-use acrylic bituminous membrane for sealings crack joint before tile installation - Attach the tiles firmly against the panel surface *Tiles not more than 600 x 600 mm.



Surface and Covering (Cement Floor)

- Thickness
 - 8-10 mm. recommended for general use
- Installation
 - Board placed with balance on cement floor
 - Place the board in 1:2 pattern stack
 - Required gaps between boards at 5-10 mm (External) and 3-5 mm (Internal)
- Fastening
 - Every 200 mm. use concrete nail along the board to joint board with concrete
- Surface Covering
 - Gaps and holes covered by polyurethane sealant
 - Applying board with adhesive (e.g. polyurethane adhesive)
 - Covering by ceramic tiles, laminate, carpet (installation by Product Manual)

Table of Frame Spacing for Maximum Load

Frame spacing (Cm.)	Load Compliance (Kg./Sq.m.)		
	16 mm.	20 mm.	24 mm.
40 x 40	610	960	1,440
40 x 60	410	650	950
40 x 120	-	550	790
60 x 60	-	410	600
60 x 120	-	230	330

Note

- The load in the table is calculated from installation where the load is equally distributed and does not include concentrated force impact load or vibrations
- Do not use the charger in a high moisture or wet environment.
- The framing that supports the boards must be strong . The entire pieces must be installed and the framing must support the piece on all four sides

Accessories



Electric screw



Cordless Nail Gun



Electric Cutting machine 1800 watt
(5800 rpm)



Circular Saw 7-1/4 "
(jigsaw for Cutting Wood 40 Teeth)



Needle point screw 10 mm.
Use for joint galvanize frame



Needle point screw 35-42 mm.
Use for joint galvanize frame with cement board



Wing screw 35-45 mm.
Use for joint steel frame with cement board



Concrete nail
Use for board lower than 10 mm.



Acrylic filler
Sealing defect & Hole



Polyurethane Sealant
Use for jointing the gap between board

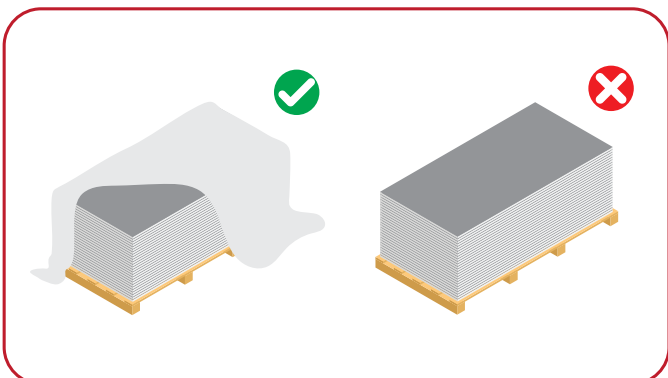
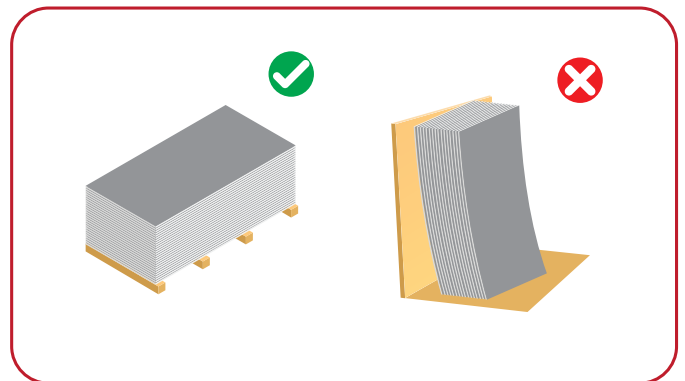
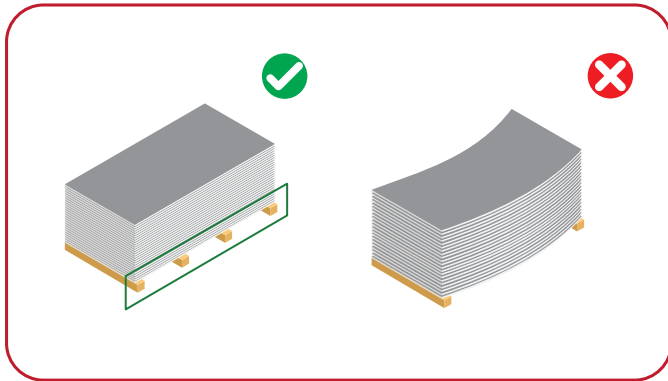
Note : Needle point screw 35-42 mm. for board 8-16 mm. / Needle point screw 42-45 mm. for board 20-24 mm. and Tapping screw for general use for Timber stud frame

Storage

- SCG Cementboard need to be stored under a roofed area, dry environment and well protected from weather. Floor area should be leveled and solid.
- Maximum of 4 pallets can stacks and laid on top each other.
- SCG Cement board essential to be store in its original packing supplied.
- Do not store on edge or upright. Outdoor storage is not recommended.

Transportation

- SCG Cementboard need to be laid flat and be effectively protected during transportation by waterproof covering.
- Lifting the board from its stack should be done one piece at a time by sliding to the side. Never lift the board from its both ends because it may cause the boards to bend resulting in board breakage.
- Should be carry the board in vertical position



Interior and Exterior Wall	Coating Type	Beger	Nippon Paint
Gloss (Water Repellent)	Transparent Coating (applied for 1-2 layer)	 Beger A-100 Repellent Gloss	-
Matte (Water Repellent)	Transparent Coating (applied for 1-2 layer)	 Beger W-006 Water Repellent	 Nippon Paint Water Repellent W-245
Acrylic Coating	Primer Coating (applied for 1 layer)	Beger Pro Quick Primer B-1900	 Nippon Paint Excel Primer
	Acrylic Painting (applied for 2-3 layer)	 Beger Cool UV Shield (Exterior)  Beger Shield PhotoClean (Interior)	 Nippon Paint Color Shield Plus (Exterior)  Nippon Paint Vinilex Hybrid Care (Interior)

Interior and Exterior Floor	Coating Type	Beger	Nippon Paint
Glossy chemical	Transparent Coating (applied for 1-2 layer)	 Epoxy Beger C-Guard Penetrating Sealer	-
Epoxy/Polyurethane Painting	Epoxy Primer Coating (applied for 1 layer)	 Epoxy Beger C-Guard Penetrating Sealer	 Nippon Hi-pon 30-06
	Epoxy / Polyurethane Painting (applied for 2-3 layer)	 Beger Durathane (Exterior)  Beger Duraguard (Interior)	 Nippon Hi-pon 50-06 (Exterior)  Nippon Hi-pon 40-03 (Interior)
Acrylic Painting	Primer Coating (applied for 1 layer)	 Beger Pro Quick Primer B-1900	-
	Acrylic Painting (applied for 2-3 layer)	 Beger Synotex Roof Paint (Exterior / Interior)  Beger Synotex Decking Fiber Cement (Exterior / Interior)	

Remark: For external or high humidity used area must be coating/Painting all side of surface

Installation specification

- Do not use as structure of any building, not use in other purposes. Users must strictly follow installation manual, or equipment which are only in accordance with the standards of procedure.
- Do not eat, Avoid the smelling.
- Do not use as floor which installed higher than 50 cm, or more from ground level.
- Do not use in the area that are always wet and moistening.

Product Tolerance

- SCG Cementboard has Tolerance value about Diagonal ± 4 mm. / Width/Length ± 2 / Thickness 8-12 mm. ± 1 mm./ Thickness 16-24 mm. ± 2 mm. SCG Cementwood Thickness 16-24 mm. ± 2 mm.

Recommendation for Safety Operation

- Application of products which are not in the application purposes shown in this installation manual shall be direct responsibility of designer, and construction supervisor.

For designer

- Any Properties specified in this document are the average values from Testing of product which followed the specified standards, by sampling from the products during the period before distribution only.
- Specifications for installation are only the fundamental recommendation for residential houses.
- For any other buildings, or buildings with higher risk shall consider the wind load for design of structures and fixing methods as well. If it is necessary to calculate while lack of certified document from reliable institute, the unit wind load following Item 17 Of the Ministry Regulation Vol.6 (1884), Which announced in the act of Building Control 1979.

For installer and User

- Specifications for installation are only the fundamental recommendation for general operation. Correct method of installation and structures to be used shall consider from the Standard of Structural Steel building E.17 1015-40 and Specification for Design of the Ministry Regulation Vol.6 (1884), Which announced in the Act of building Control 1979.
- In any case that the users require Applying the product for Uses in other Purposes which are not specified in this Installation Manual, Consult with architect and engineer.

Recommended safe work method

- SCG Cementboard and SCG Cementwood is designed and its application is designed and its application is specified to suit work condition in Thailand only.
- Application in other countries is considered as direct responsibility of the designer, Construction Supervisor, and installer.
- During use, Standardized personal protection equipment shall be used. After finished the work, close the containers tightly and keep out of children.
- If feel irritated after have skin contact, wash with water for several times, and immediately see the doctor.
- If swallow or eat, do not make the patient vomit but a lot of clean water for several times and immediately see the doctor.
- Specification for installation are only the fundamental recommendation for general operation, Correct method of installation and structures to be used shall consider from the Standard of Structural Steel Building E.T.1015-40 and Specification for design of the Ministry Regulation Vol.6 (1884), Which announced in the Act of building control 1979.
- The SCG Cement Board Products compose of the silica, Cutting grinding or polishing of the products may cause the distributing dust. If those are accidentally eaten or to human body in considerable amount and over a long period, This may cause danger to human body and the respiratory system.
- Cutting, grinding, aniling or polishing of the products shall be carried out in well ventilated area. Avoid the machine for cutting grinding drilling or polishing of the products that may cause high amount of dust.
- Do not work during bad climates such as, during storm or raining or on the wetting roof.
- Always wear Personal Protection Equipment which is in accordance to the Standards or any unauthorized person who does not involve to the work must not go near to the working area, in order to avoid dangerous circumstance with may occur.
- Lifting or transportation of products shall be performed with special attention. It is prohibited to bow oneself for lifting, Do not twist the body change direction during, Moreover, avoid long period of continuous work in order to prevent injury or fatigue.
- Every time offing, ones must lower their body and hold product firmly, then apply strength from their in order up.
- For Cleaning the working area after complete the works of cutting grinding, ling or polishing of the products, use vacuum machine and seal the dust containing bag tightly, or use the cleaning liquid. Do not sweep the dust since it can make dust spread out.
- Separate and collect the debris of material resulted from installation, reparation, dismantling of products with special attention, then those shall be disposed by corrective means in accordance to the sanitary regulations specified by the government.
- Clean the body using clean water Cutting, Grinding, Drilling, polishing of the products.



Lon. 878-2566



ISO 9001 : 2015



ISO 14001 : 2015



EN 19386 : 2004 + A1 : 2015



THE INTERNATIONAL EPD SYSTEM

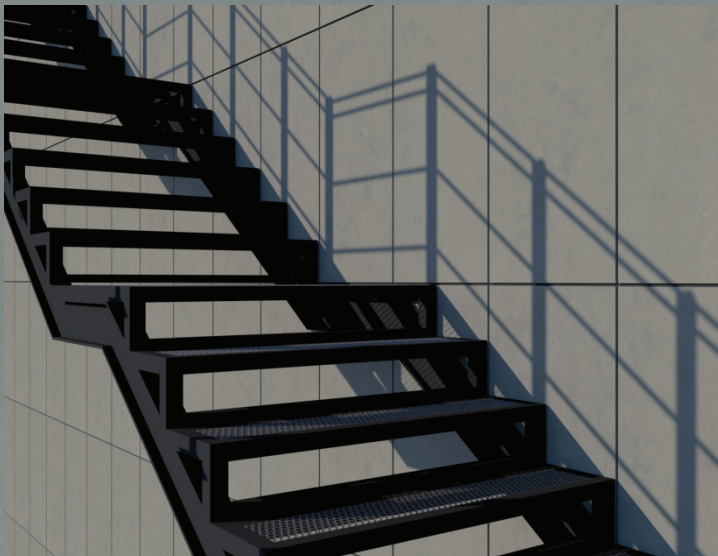


SCG GREEN CHOICE

SCG Cementboard *PRO*

INNOVATION IDEA @ HOME

POROLITE **NEW** Formula *Ultra-Strength*





* The color of the product in the photo may differ the actual product due to the pring system. Therefore, please consider the color of the actual pruct at the store before plazing an onderrire.

All content, design, and layout are Copyright © 2017, SCG Cement-Building Materials All Rights Reserved, Reproduction in whole or part in any form or medium without specific written permission is prohibited.

The product is available for purchase at leading building materials stores. SCG Contact Center 02-586-2222 Email : contact@scg.co.th, www.scgbuildingmaterials.com

