SCG

SCG Smartboard ULTRA

CEILING • WALL • FLOOR

NEW

20% more durable Enhanced Durability

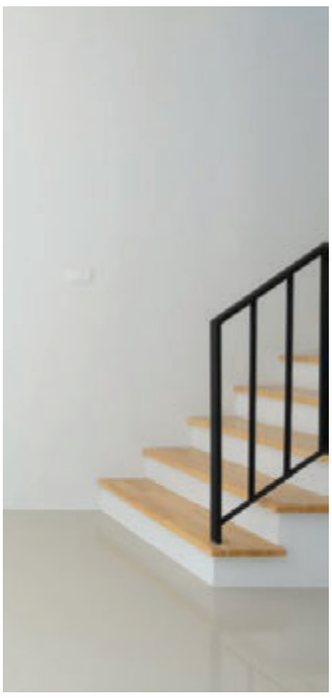
Anti-mold Technology

ECO Friendly

CONTENT

CEILING 3

WALL 5



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GREEN CHOICE PHILIPPINES PRODUCT: SCG SMARTBOARD
Voluntary eco labeling, reduce environmental impact with principles and procedures of ISO 14024

Our company has earned the international EPD (Environmental Product Decla ration) certification. , demonstrating our products meet global environmental standards.This aligns with ISO 14025:2006 and EN15804, reflecting our commitment to innovation and sustainability."

Certificate of Conformity Categoty A Class 2
Materials of Fibre-Cement Flat Sheets as complying with
MS 1296 : 2010
BS 476 : Part 6:1989+A1:2009
BS 476 : Part 7:1997

Certificate of Conformity Class 1A
Materials for Ceiling, Wall, and Floor construction as complying with
BS 476-4:1970, BS 476-6: 1989/A1: 2009 and BS 476-7: 1997 standards

This logo certifies that the product meets Australia's strict quality, safety, and performance standards, ensuring reliability and regulatory compliance while boosting consumer trust.

The QUATEST 3 logo certifies that a product has passed rigorous testing by Vietnam's Quality Assurance and Testing Center 3, meeting national and international standards for quality and safety.

The ASTM International logo signifies compliance with global standards for quality, safety, and performance across industries, ensuring reliability and market acceptance.

Green label brand to certify products & service solutions of SCG that are environmental friendly and well-being

Research-based, nationwide consumer survey carried for over 60 product categories to indicate brands' trustworthiness and is the most relied upon by Thailand's business society for more than 2 decades.
SCG Smartboard gets the award for 6 consecutive years (2020-2025).

Marketeer No.1 Brand is Thailand trustworthy award which consumer can trust and guarantee for Thailand most popular brand award.
SCG Smartboard gets the award for 5 consecutive years (2021-2025).

SCG Smartboard Ultra is made from SCG Portand cement, silica, and **high quality** cellulose with FIRM & FLEX technology resulting in high strength, durable, and fiexible fiber cement board. Due to its superior properties, **SCG Smartboard Ultra** is suitable for interior and exterior use in ceiling, wall, and floor application.

SPECIAL PROPERTIES

20% more durable

Enhanced Durability

SCG Smartboard ULTRA, our new formula provides enhanced strength—up to 20% more durable with FIRM FLEX TECHNOLOGY

FIRM	High impact strength	From special composition; SCG Portland cement, silica, and high quality cellulose.
	Water-resistance & non-decay	Long lasting even using in hot, humid and strong rain according to AS/NZ 2908.2 standard.
	Termite resistance	SCG Portland cement is termite resistant
FLEX	Flexible for various designs	Bendable. No water is needed to applied while bending the board. 4 mm, bending radius 1.2 m 6 mm, bending radius 1.8 m 8 mm, bending radius 3 m
	Light weight, fast and easy to install	With only 30 kg. per sq.m. total weight of internal partition and faster installation than conventional system, it provides flexibility of designs and durability of applications better than conventional systems.
	Better heat resistance	SCG Smartboard has low heat conductivity, which can prevent heat from external environment.

Anti-Mold Technology

SCG Smartboard ULTRA is resistant to the growth of mold*, which can aggravate allergies or present a risk to human health.

* Resistant against fungi Aureobasidium pullulans, Aspergillus niger, and Penicillium citrinum based on test results of ASTM D3273-16 over four weeks with no defacement from mold.

ECO Friendly

SCG Smartboard ULTRA: is the Best in class declaration value Y2024 by The International EPD System

EPD® THE INTERNATIONAL EPD® SYSTEM

Global Warming Potential* 0.374 kgCO2./kg

*According to The International EPD System (SP13506) EN 15804 standard, GWP-total: Module A1-A3

SCG SMARTBOARD CEILING

SCG Smartboard Ceiling can be installed with various elegant styles, such as bent ceiling, pocket ceiling or leveling ceiling, space lining ceiling or T-bar, or mixed among various models to enhance elegancy. Down lights can be installed, or painted over by 100% acrylic paint as wished.

SCG Smartboard Square Edge

Width x Length (mm)	Thickness (mm)
600x1200	4
600x2400	3.5, 4, 6
603x1210	3.5
1200x1200	3.5, 4
1200x2400	3.5, 4, 4.5, 6
1220x2440 (4'x8')	3.5, 4, 4.5, 6

SCG SMARTBOARD VENTILATION CEILING

SCG Smartboard Ventilated

- **Keeps Your Home Cooler:** Using SCG Smartboard to minimize heat transferring from roof air gap. Cool air passing through SCG Smartboard's ventilated holes to replace hot air under roof.
- **Long-term value:** Saves on Electricity Bills: Helps lower energy costs by at least 0.10%.

SCG Smartboard Ventilated Protection Series

- **Prevent insect:** from finished mesh with board
- **Confidence with mesh from high quality of fiber glass:** which could prevent heat and moisture very well
- **Easy to install and save time;** almost a day comparing with install own mesh
- **Beautiful:** with half ventilated made the feeling of eave liner with ceiling.

SCG Smartboard Ventilation

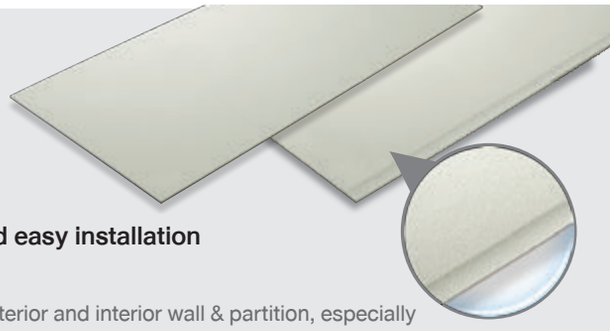
Width x Length (mm)	Thickness (mm)
600 x 1200	4

SCG Smartboard Ventilated Protection

Width x Length (mm)	Thickness (mm)
600 x 1200	4

Ao Nang Landmark, Krabi

SCG SMARTBOARD WALL



High impact strength, lasting durability and easy installation

SCG Smartboard is the most suitable choice for exterior and interior wall & partition, especially in the construction of housing extended or renovated area

- **High impact strength and lasting durability:** with maximum hanging weight up to 80 kg. each point and resist to moisture or even heat and rain in case of exterior usage.
- **Easy and fast installation:** with the light-weight system at only 30 kg./sq.m. and no supported concrete beam required SCG Smartboard system helps reduce all of construction time, materials and labor costs.
- **Neat finishing:** using dry-system of installation, all parts are able to be finished neatly and nicely.

SCG Smartboard Square Edge

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9, 10, 12
1220 x 2440 (4'x8')	8, 9, 10, 12

SCG Smartboard Tapered Edge

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9
1200 x 2800	8

SCG SMARTBOARD FLOORING

- **Strong and Durable:** can support loading up to 500 kgs/sq m
- **Save time and cost:** comparing to conventional concrete floors, SCG Smartboard flooring has lighter weight and less installation process which, in turn, will save total cost.
- **Suitable for:**
  - Buildings that require construction rapidity such as hotel, resort, restaurant.
  - Constructions which concern about loading effect to structure and foundation.

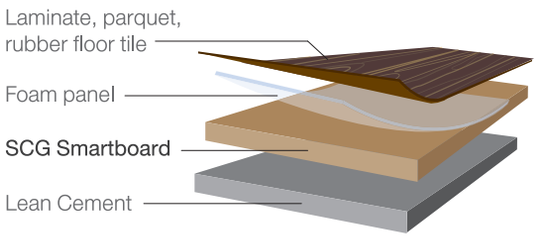
SCG Smartboard Square Edge Floor

Width x Length (mm)	Thickness (mm)
1200 x 2400	15, 16, 18, 20
1220 x 2440 (4'x8')	16, 18, 20

SCG SMARTBOARD UNDERLAY

SCG Smartboard can be installed as floor underlay for laminate, parquet, or rubber floor tiles.

- **Replace polished cement** to reduce total construction time.
- **Replace plywood** for better quality and lower cost.



SCG Smartboard Square Edge Underlay

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9, 10, 12
1220 x 2440 (4'x8')	8, 9, 10, 12, 14

SCG Smartboard recommendation for floor

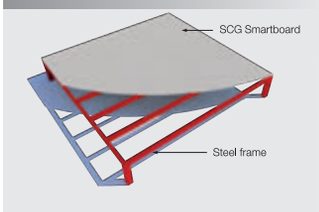
Width x Length (cm)	Thickness (cm)	Structural Spacing (cm)	Load Bearing* (kg/m^2)	Building Type	Building Area Usage	Remarks
120 x 240	1.5	40	200	Residential / Accommodation / Condominiums / Dormitories / Hotels	Bedrooms, living rooms, bathroom and dressing area	• Install the Smartboard sheet at a right angle to the steel beam. • Do not install in areas exposed to moisture or damp conditions. • Do not use the board to support point loads exceeding 100 kg (minimum contact area: 10 cm^2). • Do not use in areas subjected to moving loads such as pallet trucks or forklifts., driveways, carports, or vehicle access zones. • For point load applications, ensure the load is transferred directly to the steel structure for safety. • For use in public buildings, please consult the product owner before installation. • Users must consider both the operating load and deflection control values during design and installation.
120 x 240 122 x 244 (4' x 8')	1.6	40	250	Office Buildings / Banks	Office spaces	
	1.8	40	300	Schools / Educational Centers	Classrooms, lecture hall, and laboratories Commercially utilized area	
	1.8	30	400	Commercial Buildings / Department Stores / Mixed-use	Retail spaces, community zone, conference rooms	
	2.0	30	500	Industrial Plants / Warehouses / Museums	Storage areas, stages, and showground	

*According to Thailand standard
** SCG Smartboard thickness 0.8–1.4 cm are strongly recommended to use for floor underlay only.

Load bearing for SCG Smartboard Floor (kg/m^2)

*Dead load is included in above load bearing

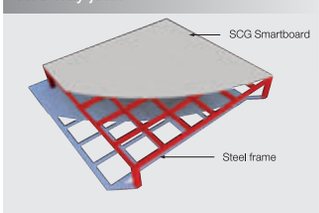
One way joist



Width x Length (cm)	Thickness (cm)	Joist span for safety factor 2.5 times			
		30 cm	40 cm	50 cm	60 cm
120 x 240	1.5	900	500	350	250
120 x 240 122 x 244 (4' x 8')	1.6	1000	600	450	300
	1.8	1300	750	550	350
	2.0	1500	1000	700	450

*SCG Smartboard must be installed with its length side perpendicular with joist, width side are parallel to joist direction

Two way joist



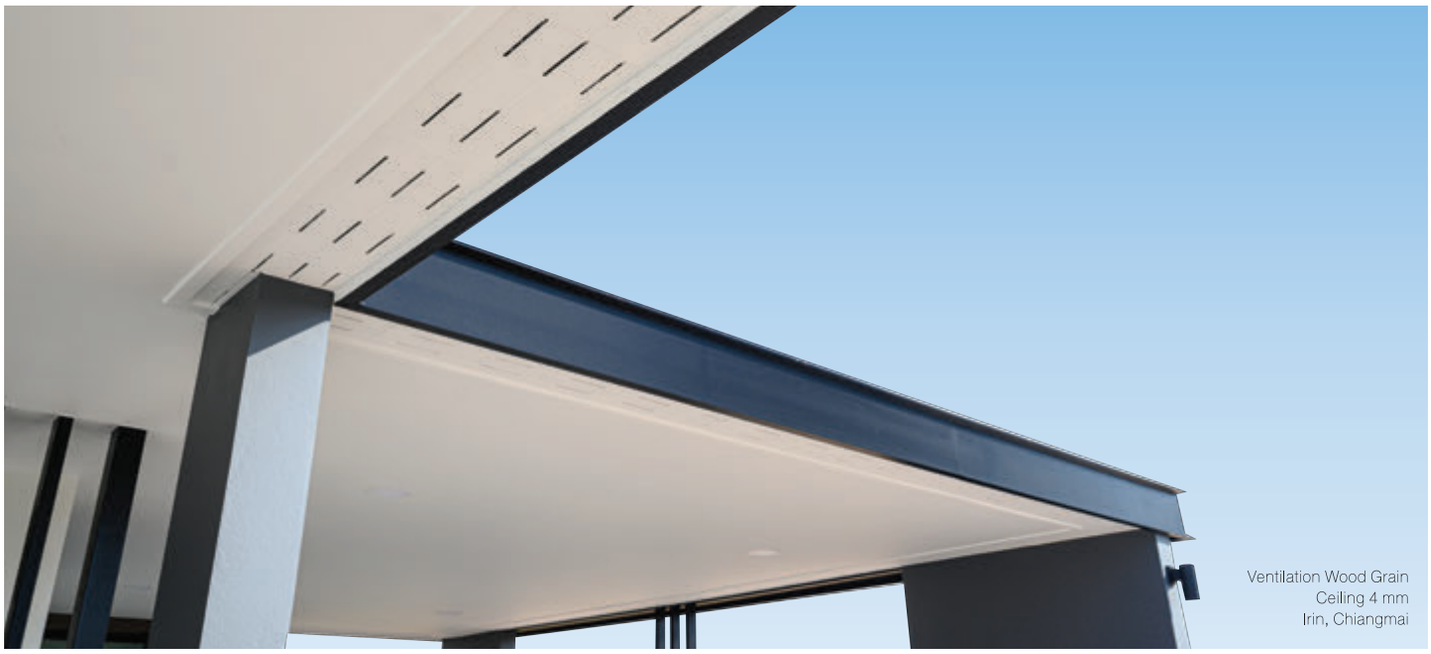
Width x Length (cm)	Thickness (cm)	Joist span for safety factor 2.5 times					
		30 x 30 cm	30 x 40 cm	30 x 60 cm	40 x 40 cm	40 x 60 cm	60 x 60 cm
120 x 240	1.5	2600	1100	600	1300	750	450
120 x 240 122 x 244 (4' x 8')	1.6	3100	1400	800	1500	900	550
	1.8	3500	2000	1100	2000	1000	650
	2.0	4500	2600	1400	2500	1200	800

*** The load-bearing values are calculated based solely on the material's strength, not including the effect of joint connections or behavior under actual construction conditions in simple span structures.
Notes:
•Do not apply point loads exceeding 100 kg per 10 m^2 on the surface.
•Do not install in areas exposed to moisture or damp conditions.
•Do not use in areas subjected to moving loads such as pallet trucks or forklifts., driveways, carports, or vehicle access zones.

Exterior wall
SCG Smartboard 8 mm,
Ao Nang Landmark, Krabi

Ceiling
SCG Smartboard 6 mm
Chonnada, Chiangmai

Interior wall
SCG Smartboard 8 mm
Ao Nang Landmark, Krabi

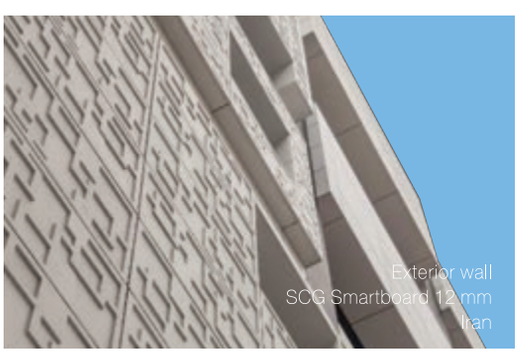


Ventilation Wood Grain
Ceiling 4 mm
Irin, Chiangmai

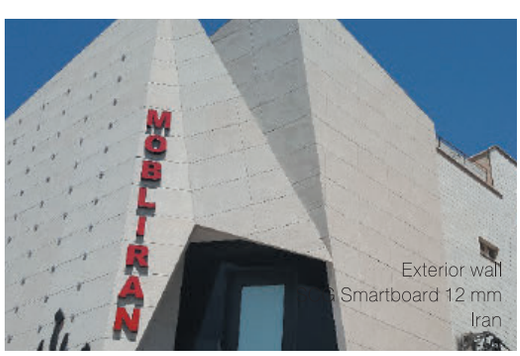
SPECIFICATION AND STANDARD

SPECIFICATION	TEST VALUE	STANDARD
PHYSICAL PROPERTIES		
Density	1300 ± 50 kg/m^3	ASTM C 1185
Modulus of rupture (Wet condition)	≥ 8 MPa	ASTM C 1185
Sound resistance (STC)	38 - 61[1] dB	Marshall Day program
Thermal conductivity	0.134 W/m.K	ASTM C 518
Water absorption	≤ 35 %	ASTM C 1185
Length change due to water absorption	≤ 0.12 %	JIS A 5414
Moisture movement	0.06 %	MS 1296
pH value	7 - 8	Litmus test
Thickness tolerance	Pass %	ASTM C 1186
DURABILITY PROPERTIES		
Freeze/Thaw resistance	Pass	ASTM C 1185
Water permeability	Pass	AS/NZS 2908.2
Warm water resistance	Pass	AS/NZS 2908.2
Soak/Dry resistance	Pass	AS/NZS 2908.2
Heat/Rain resistance	Pass	AS/NZS 2908.2
FIRE RESISTANCE PROPERTIES		
Smoke index	Class A	ASTM E84-17
Flame spread index (FSI)	0	ASTM E84-17
Smoke developed index (SDI)	0	ASTM E84-17
Non-combustibility test	Non-combustible	BS 476 Part 4
Ignitablility	Pass	BS 476 Part 5
Fire propagation index	I = 0	BS 476 Part 6
Surface spread of flame	Class 1	BS 476 Part 7
Fire resistance system	60 - 180[2] mins	BS 476 Part 20-22
Single burning item	Pass	EN 13823 : 2010
Fire classification	A2-s1, d0	EN 13501-1
OTHER		
Bending radius (Thickness 4 / 6 / 8 mm)	1.2 / 1.8 / 3.0 m	

1 The STC value is derived from the Marshall Day Program with a tolerance of ± 3STC
2 Selected system


Exterior wall
SCG Smartboard 12 mm
Iran

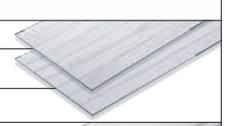
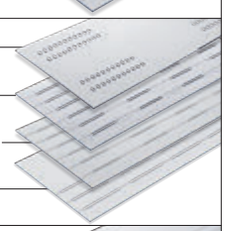
Ventilation Wood Grain
Protection 4 mm
Ban Ploen, Chiangmai



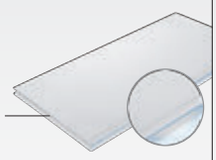
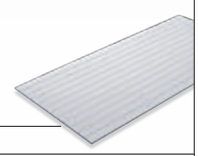
Exterior wall
SCG Smartboard 12 mm
Iran

Ceiling
SCG Smartboard 4 mm
LAVE Cafe, Chiangmai

SCG SMARTBOARD ULTRA DIRECTORY

Application	Thickness	Width x Length (mm)	Weight	Effective Area (pcs/sq m)	Installation System	Series
Interior and Exterior Ceiling	3.5	600 x 2400	7.60	0.69	T-Bar Space Lining No Space Lining	
		603 x 603	2.00	2.78		
		610 x 610 (2'x2')	2.00	2.69		
		1200 x 1200	7.60	0.69		
		1200 x 2400	15.20	0.35		
		1220 x 2440 (4'x8')	15.80	0.34		
	4	600 x 1200	4.40	1.39		
		600 x 2400	8.70	0.69		
		600 x 2800	10.20	0.60		
		600 x 3000*	10.90	0.56		
		610 x 610 (2'x2')	2.30	2.69		
		1200 x 1200	8.70	0.69		
		1200 x 2400	17.40	0.35		
		1200 x 3000*	21.80	0.28		
		1220 x 1220 (4'x4')	9.00	0.67		
		1220 x 2440 (4'x8')	18.00	0.34		
	4.5	608 x 2440	10.1	0.68		
		1200 x 2400	19.60	0.35		
		1200 x 2700	22.10	0.31		
		1220 x 2440 (4'x8')	20.20	0.34		
	6	600 x 2400*	13.05	0.69		
		600 x 3000*	16.00	0.56		
		1200 x 2400	26.10	0.35		
		1200 x 2700	29.40	0.31		
		1200 x 3000*	32.70	0.28		
		1220 x 2440 (4'x8')	27.00	0.34		
	4	600 x 1200	5.00	1.39	Space Lining No Space Lining	
		600 x 1200	5.10	1.39		
Ventilated Ceiling	4	600 x 1200	4.20	1.39	Space Lining No Space Lining	
		600 x 1200	5.00	1.39		
		600 x 1200	4.90	1.39		
		600 x 1200	5.10	1.39		
Ventilated Ceiling Protection Series	4	600 x 1200	5.10	1.39		
		600 x 1200	5.00	1.39		
		600 x 1200	4.90	1.39		
		600 x 1200	4.20	1.39		

SCG SMARTBOARD ULTRA DIRECTORY

Application	Thickness	Width x Length (mm)	Weight	Effective Area (pcs/sq m)	Installation System	Series
Interior Wall	6	1200 x 2400	25.80	0.35	Conceal	 2 side Tapered Edge
	8	1200 x 2400	34.60	0.35		
		1200 x 2600	37.40	0.32		
		1200 x 2800	40.20	0.30		
	9	1200 x 2400*	38.90	0.35		
Interior and Exterior Wall	8	1200 x 2400	34.80	0.35	Space Lining	Squared Edge
		1220 x 2440 (4'x8')	36.00	0.34		
	9	1200 x 2400*	39.20	0.35		
		1200 x 3000*	49.00	0.28		
		1220 x 2440 (4'x8')	40.40	0.34		
	10	1200 x 2400	43.50	0.35		
		1220 x 2440 (4'x8')	44.90	0.34		
	12	1200 x 2400	52.20	0.35		
		1200 x 3000*	65.30	0.28		
		1220 x 2440 (4'x8')	53.90	0.34		
	14	1220 x 2440 (4'x8')	62.90	0.34		
	8	1200 x 2800	40.00	0.30		 4-Inch Square Lining
Underlay	8	1200 x 2400	34.80	0.35	Space Lining No Space Lining	Square Edge
		1220 x 2440 (4'x8')	36.00	0.34		
	9	1200 x 2400	39.20	0.35		
		1220 x 2440 (4'x8')	40.40	0.34		
	10	1200 x 2400	43.50	0.35		
		1220 x 2440 (4'x8')	44.90	0.34		
	12	1200 x 2400	52.20	0.35		
		1220 x 2440 (4'x8')	53.90	0.34		
	14	1220 x 2440	62.90	0.34		
Floor	15	1200 x 2400	65.30	0.35	Space Lining No Space Lining	Squared Edge
	16	1200 x 2400	69.60	0.35		
		1220 x 2440 (4'x8')	71.90	0.34		
	18	1200 x 2400	78.30	0.35		
		1220 x 2440 (4'x8')	80.80	0.34		
	20	1200 x 2400	87.00	0.35		
		1220 x 2440 (4'x8')	90.00	0.34		

*Made to order product

SCG SMARTBOARD TOOLS & ACCESSORIES

SCG Self drilling screw 18 mm
for Ceiling Application

- Fixing SCG Smartboard ceiling to galvanized frame
- Packing size : 500 pieces / box

SCG Needle point screw 23 mm
for Ceiling Application

- Fixing SCG Smartboard 4 -10 mm to galvanized frame
- Packing size : 500 pieces / box

SCG Needle point screw 10 mm
for Wall Application

- Fixing galvanized frame C74 with U76
- Packing size : 500 pieces / box

SCG Self drilling wing screw 32 mm
for Wall Application

- Fixing SCG Smartboard 8 -12 mm to steel frame
- Packing size : 500 pieces / box

SCG Needle point screw 38 mm

- Fixing SCG Smartboard 8 - 20 mm to galvanized frame
- Packing size : 250 pieces / box

SCG Plastic anchor 37 mm

- Use together with SCG Needle point screw 38 mm
- Packing size : 250 pieces / box

SCG Plaster Joint polymer Compound for finishing

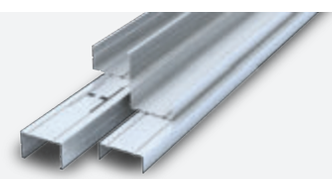
- for concealed jointing wall. Only use with SCG Smartboard tapered edge.
- Interior use only
- Packing size : 20 kgs / bag (5 small bags)

SCG Polyurethane sealant

- for space lining jointing wall.
- Interior and exterior use.
- Packing size : 310 ml / tube

SCG Plaster Joint Compound for finishing work (All Application)

- Fine cement texture, no granules, easy to mix, sticky, provides a smooth finish
- No mess, no cracking, peeling or shrinking because it has high adhesion ability
- Easy to finish with sandpaper
- Packing size : 25 kgs / bag

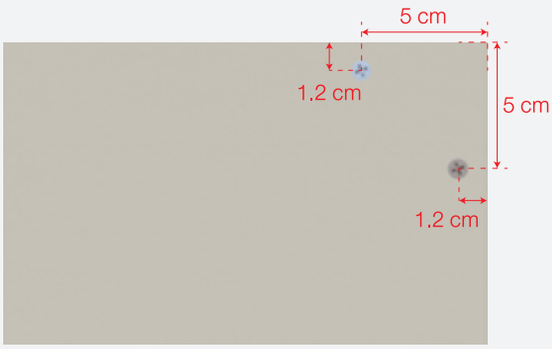


SCG Galvanize frame C74, U76
for Wall Application

- For wall installation.
- Coat with hot dip galvanized steel Z22.

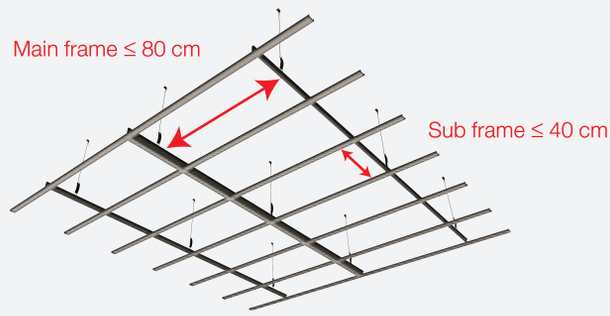
INSTALLATION

SCREW FIXING ON SCG SMARTBOARD



First screw fixing space is 5 cm from SCG Smartboard corner and 1.2 cm from edge and fix screw every 20 cm for next screw.

CEILING



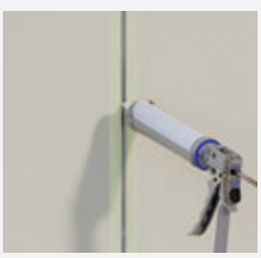
Frame : C-Line No.24
Main frame span: maximum 80 cm
Sub frame span: maximum 40 cm
SCG Smartboard Square Edge 3.5, 4, 6 mm

WALL

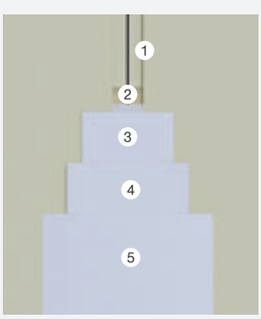
Frame: SCG Galvanized frame C74, U76, Steel frame
Frame span:
- Interior wall maximum 60 cm
- Exterior wall maximum 60 cm, depends on building height.

Space lining jointing wall:
- SCG Smartboard Square Edge 8, 10, 12 mm
- SCG Polyurethane sealant

Concealed jointing wall
***Interior only:**
- SCG Smartboard Tapered Edge 8, 9 mm
- SCG Smart joint polymer



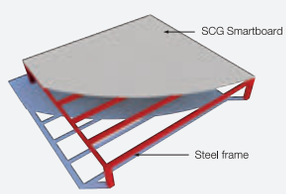
Space lining jointing wall
1. Leave jointing gap as wide as board thickness.
2. Clean dust and attach tape on SCG Smartboard edge.
3. Seal joint with SCG Smartboard polyurethane joint sealant, wipe off surplus PU and take out tape.



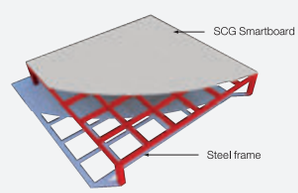
Concealed jointing wall
***Interior use only:**
1. SCG Smartboard Tapered Edge 8, 9 mm
2. Nylon tape width more than 3.5 cm
3. Coat 1st layer of mixed SCG Smart Joint 15 cm width
4. Coat 2nd layer of SCG Smart Joint 20 cm width
5. Coat 3rd layer of SCG Smart Joint 30 cm width

FLOOR

One way joist



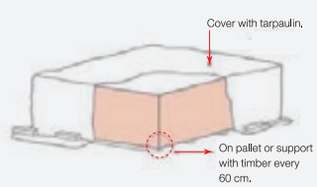
Two way joist



Joist: Steel frame
Frame span: maximum 60 cm *depends on load bearing and building type
SCG Smartboard Square Edge 15, 16, 18, 20 mm
SCG Gumcrete

HANDLING & STORING

SCG Smartboard must be carried in vertical direction with at least 2 people carry.



SCG Smartboard must be stored on a pallet or support with timber 1.5x3 inches every 60 cm on dry and levelled floor and covered with tarpaulin.

WARNING Do not use these products as building structures, or parts of a deck or for any purposes that are not advised by SCG. When installing these products, installers must follow every step and criteria provided in the instruction manual and use tools that meet specific standards of the product manufacturer. Do not eat or swallow. Avoid inhaling wood dust generated from sawing, tapering, drilling and sanding. These products should not be installed in areas that are higher than 50 cm. from the ground.

CAUTION The products of SCG Smartboard are designed for working condition in Thailand. Any application or usage outside Thailand must follow and is considered to be responsibility of projects' architect, designer, construction supervisor and installer. These products contain dangerous chemicals. Do not eat, swallow, or touch your eyes. Use protection equipment that meets safe standards during tactical and technical operations. After the use, store it in a secure location and keep it out of children's reach. If experience skin irritation after touching the surface of the wood, wash the irritated area with clean water and seek medical help right away. If eat or swallow, avoid vomiting, drink plenty of water to abate the chemicals, and get medical help right away. All of the criteria for installation are of rudimentary steps for normal usage only. For more in depth specifications for installations and requirements for proper sites and conditions that materials can be used under, please read the standards of "allowable strength design" (E.I.T 1015-40) and criteria for designing building prescribed by the ministerial regulation No. 6 B.E. 2527, which is adopted from "Building Control Act" B.E. 2522. Product installation manual is regularly updated. The architect, designer, construction supervisor, and installer shall verify the methods implemented follow the most updated installation manual on the website: https://shorturl.at/pJyY6

• Color shade may vary from real product due to production and printing process

Installation Manual

CW-SB-E-C008/6803

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SCG

SCG Authorized Dealer

Available for purchase at SCG Authorized Dealer and leading construction material shops

SCG Contact Center +662 586 2222

Email : contact@scg.com, www.scgsmartliving.com

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Installation Manual

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SCG

SCG Smartboard ULTRA

CEILING • WALL • FLOOR

NEW

20% more durable — Enhanced Durability

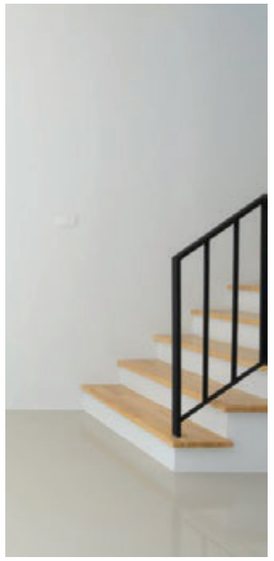
Anti-mold Technology

ECO Friendly

CONTENT

CEILING 3

WALL 5



FLOOR 7

2	Product Specification
3	SCG Smartboard Ceiling
5	SCG Smartboard Wall
7	SCG Smartboard Floor
9	Project Reference
11	Product Directory
13	Product Tools & Installation

GREEN CHOICE PHILIPPINES PRODUCT: SCG SMARTBOARD
Voluntary eco labeling, reduce environmental impact with principles and procedures of ISO 14024

Our company has earned the international EPD (Environmental Product Decla ration) certification. , demonstrating our products meet global environmental standards.This aligns with ISO 14025:2006 and EN15804, reflecting our commitment to innovation and sustainability."

Certificate of Conformity Categoty A Class 2
Materials of Fibre-Cement Flat Sheets as complying with
MS 1296 : 2010
BS 476 : Part 6:1989+A1:2009
BS 476 : Part 7:1997

Certificate of Conformity Class 1A
Materials for Ceiling, Wall, and Floor construction as complying with
BS 476-4:1970, BS 476-6: 1989/A1: 2009 and BS 476-7: 1997 standards

This logo certifies that the product meets Australia's strict quality, safety, and performance standards, ensuring reliability and regulatory compliance while boosting consumer trust.

The QUATEST 3 logo certifies that a product has passed rigorous testing by Vietnam's Quality Assurance and Testing Center 3, meeting national and international standards for quality and safety.

The ASTM International logo signifies compliance with global standards for quality, safety, and performance across industries, ensuring reliability and market acceptance.

Green label brand to certify products & service solutions of SCG that are environmental friendly and well-being

Research-based, nationwide consumer survey carried for over 60 product categories to indicate brands' trustworthiness and is the most relied upon by Thailand's business society for more than 2 decades.
SCG Smartboard gets the award for 6 consecutive years (2020-2025).

Marketeer No.1 Brand is Thailand trustworthy award which consumer can trust and guarantee for Thailand most popular brand award.
SCG Smartboard gets the award for 5 consecutive years (2021-2025).

SCG Smartboard Ultra is made from SCG Portand cement, silica, and **high quality** cellulose with FIRM & FLEX technology resulting in high strength, durable, and fiexible fiber cement board. Due to its superior properties, **SCG Smartboard Ultra** is suitable for interior and exterior use in ceiling, wall, and floor application.

SPECIAL PROPERTIES

20% more durable

Enhanced Durability

SCG Smartboard ULTRA, our new formula provides enhanced strength—up to 20% more durable with FIRM FLEX TECHNOLOGY

FIRM	High impact strength	From special composition; SCG Portland cement, silica, and high quality cellulose.
	Water-resistance & non-decay	Long lasting even using in hot, humid and strong rain according to AS/NZ 2908.2 standard.
	Termite resistance	SCG Portland cement is termite resistant
FLEX	Flexible for various designs	Bendable. No water is needed to applied while bending the board. 4 mm, bending radius 1.2 m 6 mm, bending radius 1.8 m 8 mm, bending radius 3 m
	Light weight, fast and easy to install	With only 30 kg. per sq.m. total weight of internal partition and faster installation than conventional system, it provides flexibility of designs and durability of applications better than conventional systems.
	Better heat resistance	SCG Smartboard has low heat conductivity, which can prevent heat from external environment.

Anti-Mold Technology

SCG Smartboard ULTRA is resistant to the growth of mold*, which can aggravate allergies or present a risk to human health.

* Resistant against fungi Aureobasidium pullulans, Aspergillus niger, and Penicillium citrinum based on test results of ASTM D3273-16 over four weeks with no defacement from mold.

ECO Friendly

SCG Smartboard ULTRA: is the Best in class declaration value Y2024 by The International EPD System

EPD® THE INTERNATIONAL EPD® SYSTEM

Global Warming Potential* 0.374 kgCO2./kg

*According to The International EPD System (SP13506) EN 15804 standard, GWP-total: Module A1-A3

SCG SMARTBOARD CEILING

SCG Smartboard Ceiling can be installed with various elegant styles, such as bent ceiling, pocket ceiling or leveling ceiling, space lining ceiling or T-bar, or mixed among various models to enhance elegancy. Down lights can be installed, or painted over by 100% acrylic paint as wished.

SCG Smartboard Square Edge

Width x Length (mm)	Thickness (mm)
600x1200	4
600x2400	3.5, 4, 6
603x1210	3.5
1200x1200	3.5, 4
1200x2400	3.5, 4, 4.5, 6
1220x2440 (4'x8')	3.5, 4, 4.5, 6

SCG SMARTBOARD VENTILATION CEILING

SCG Smartboard Ventilated

- **Keeps Your Home Cooler:** Using SCG Smartboard to minimize heat transferring from roof air gap. Cool air passing through SCG Smartboard's ventilated holes to replace hot air under roof.
- **Long-term value:** Saves on Electricity Bills: Helps lower energy costs by at least 0.10%.

SCG Smartboard Ventilated Protection Series

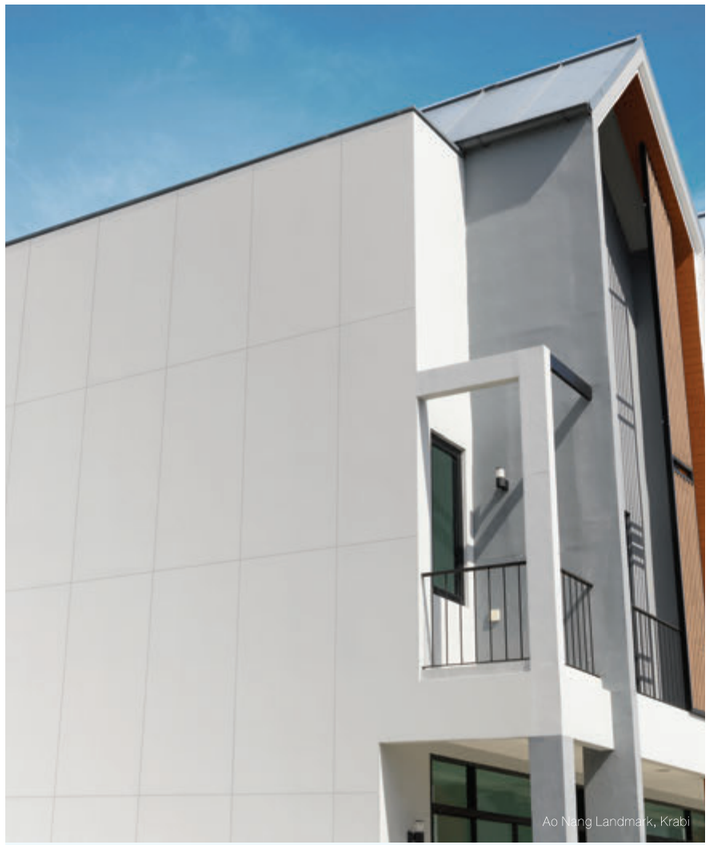
- **Prevent insect:** from finished mesh with board
- **Confidence with mesh from high quality of fiber glass:** which could prevent heat and moisture very well
- **Easy to install and save time;** almost a day comparing with install own mesh
- **Beautiful:** with half ventilated made the feeling of eave liner with ceiling.

SCG Smartboard Ventilation

Width x Length (mm)	Thickness (mm)
600 x 1200	4

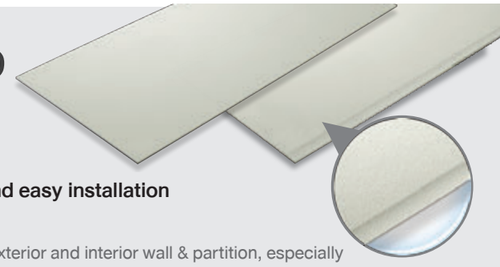
SCG Smartboard Ventilated Protection

Width x Length (mm)	Thickness (mm)
600 x 1200	4



Ao Nang Landmark, Krabi

SCG SMARTBOARD WALL



High impact strength, lasting durability and easy installation

SCG Smartboard is the most suitable choice for exterior and interior wall & partition, especially in the construction of housing extended or renovated area

- **High impact strength and lasting durability:** with maximum hanging weight up to 80 kg. each point and resist to moisture or even heat and rain in case of exterior usage.
- **Easy and fast installation:** with the light-weight system at only 30 kg./sq.m. and no supported concrete beam required SCG Smartboard system helps reduce all of construction time, materials and labor costs.
- **Neat finishing:** using dry-system of installation, all parts are able to be finished neatly and nicely.

SCG Smartboard Square Edge

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9, 10, 12
1220 x 2440 (4'x8')	8, 9, 10, 12

SCG Smartboard Tapered Edge

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9
1200 x 2800	8

SCG SMARTBOARD FLOORING

- **Strong and Durable:** can support loading up to 500 kgs/sq m
- **Save time and cost:** comparing to conventional concrete floors, SCG Smartboard flooring has lighter weight and less installation process which, in turn, will save total cost.
- **Suitable for:**
  - Buildings that require construction rapidity such as hotel, resort, restaurant.
  - Constructions which concern about loading effect to structure and foundation.

SCG Smartboard Square Edge

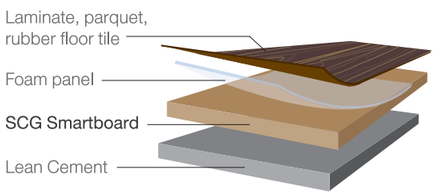
Floor

Width x Length (mm)	Thickness (mm)
1200 x 2400	15, 16, 18, 20
1220 x 2440 (4'x8')	16, 18, 20

SCG SMARTBOARD UNDERLAY

SCG Smartboard can be installed as floor underlay for laminate, parquet, or rubber floor tiles.

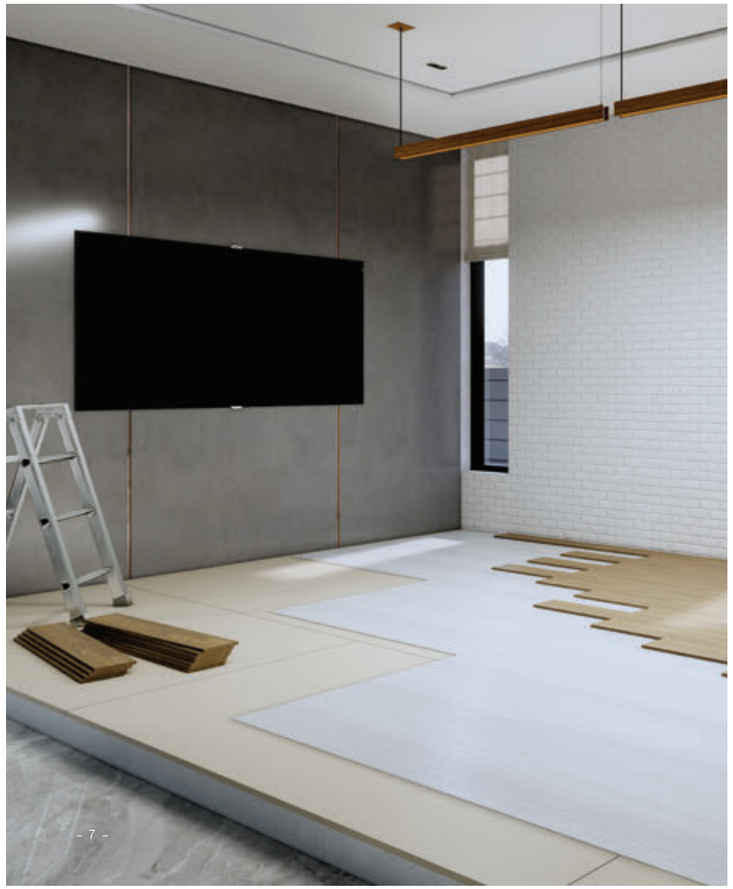
- **Replace polished cement** to reduce total construction time.
- **Replace plywood** for better quality and lower cost.



SCG Smartboard Square Edge

Underlay

Width x Length (mm)	Thickness (mm)
1200 x 2400	8, 9, 10, 12
1220 x 2440 (4'x8')	8, 9, 10, 12, 14



SCG Smartboard recommendation for floor

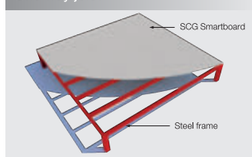
Width x Length (cm)	Thickness (cm)	Structural Spacing (cm)	Load Bearing* (kg/m^2)	Building Type	Building Area Usage	Remarks
120 x 240	1.5	40	200	Residential / Accommodation / Condominiums / Dormitories / Hotels	Bedrooms, living rooms, bathroom and dressing area	• Install the Smartboard sheet at a right angle to the steel beam. • Do not install in areas exposed to moisture or damp conditions. • Do not use the board to support point loads exceeding 100 kg (minimum contact area: 10 cm^2). • Do not use in areas subjected to moving loads such as pallet trucks or forklifts., driveways, carports, or vehicle access zones. • For point load applications, ensure the load is transferred directly to the steel structure for safety. • For use in public buildings, please consult the product owner before installation. • Users must consider both the operating load and deflection control values during design and installation.
120 x 240 122 x 244 (4' x 8')	1.6	40	250	Office Buildings / Banks	Office spaces	
	1.8	40	300	Schools / Educational Centers	Classrooms, lecture hall, and laboratories Commercially utilized area	
	1.8	30	400	Commercial Buildings / Department Stores / Mixed-use	Retail spaces, community zone, conference rooms	
	2.0	30	500	Industrial Plants / Warehouses / Museums	Storage areas, stages, and showground	

*According to Thailand standard
** SCG Smartboard thickness 0.8-1.4 cm are strongly recommended to use for floor underlay only.

Load bearing for SCG Smartboard Floor (kg/m^2)

*Dead load is included in above load bearing

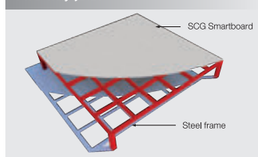
One way joist



Width x Length (cm)	Thickness (cm)	Joist span for safety factor 2.5 times			
		30 cm	40 cm	50 cm	60 cm
120 x 240	1.5	900	500	350	250
120 x 240 122 x 244 (4' x 8')	1.6	1000	600	450	300
	1.8	1300	750	550	350
	2.0	1500	1000	700	450

*SCG Smartboard must be installed with its length side perpendicular with joist, width side are parallel to joist direction

Two way joist



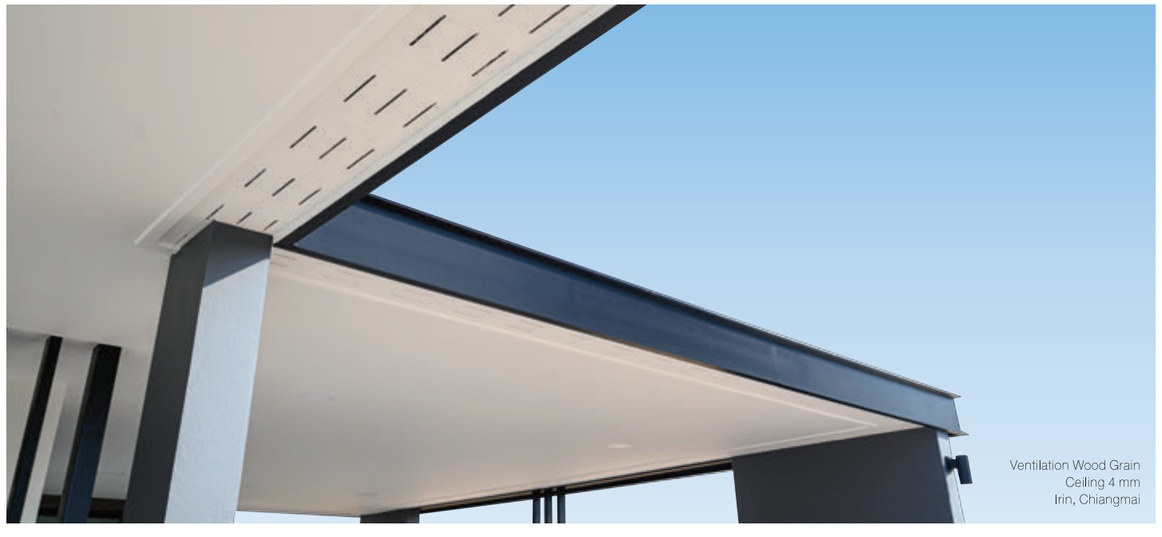
Width x Length (cm)	Thickness (cm)	Joist span for safety factor 2.5 times					
		30 x 30 cm	30 x 40 cm	30 x 60 cm	40 x 40 cm	40 x 60 cm	60 x 60 cm
120 x 240	1.5	2600	1100	600	1300	750	450
120 x 240 122 x 244 (4' x 8')	1.6	3100	1400	800	1500	900	550
	1.8	3500	2000	1100	2000	1000	650
	2.0	4500	2600	1400	2500	1200	800

*** The load-bearing values are calculated based solely on the material's strength, not including the effect of joint connections or behavior under actual construction conditions in simple span structures.
Notes:
•Do not apply point loads exceeding 100 kg per 10 m^2 on the surface.
•Do not install in areas exposed to moisture or damp conditions.
•Do not use in areas subjected to moving loads such as pallet trucks or forklifts., driveways, carports, or vehicle access zones.

Exterior wall
SCG Smartboard 8 mm,
Ao Nang Landmark, Krabi

Ceiling
SCG Smartboard 6 mm
Chonnada, Chiangmai

Interior wall
SCG Smartboard 8 mm
Ao Nang Landmark, Krabi

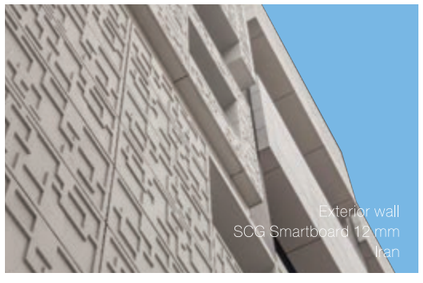


Ventilation Wood Grain
Ceiling 4 mm
Irin, Chiangmai

SPECIFICATION AND STANDARD

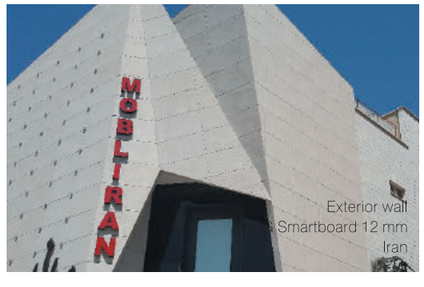
SPECIFICATION	TEST VALUE	STANDARD
PHYSICAL PROPERTIES		
Density	1300 ± 50 kg/m^3	ASTM C 1185
Modulus of rupture (Wet condition)	≥ 8 MPa	ASTM C 1185
Sound resistance (STC)	38 - 61[1] dB	Marshall Day program
Thermal conductivity	0.134 W/m.K	ASTM C 518
Water absorption	≤ 35 %	ASTM C 1185
Length change due to water absorption	≤ 0.12 %	JIS A 5414
Moisture movement	0.06 %	MS 1296
pH value	7 - 8	Litmus test
Thickness tolerance	Pass %	ASTM C 1186
DURABILITY PROPERTIES		
Freeze/Thaw resistance	Pass	ASTM C 1185
Water permeability	Pass	AS/NZS 2908.2
Warm water resistance	Pass	AS/NZS 2908.2
Soak/Dry resistance	Pass	AS/NZS 2908.2
Heat/Rain resistance	Pass	AS/NZS 2908.2
FIRE RESISTANCE PROPERTIES		
Smoke index	Class A	ASTM E84-17
Flame spread index (FSI)	0	ASTM E84-17
Smoke developed index (SDI)	0	ASTM E84-17
Non-combustibility test	Non-combustible	BS 476 Part 4
Ignitablility	Pass	BS 476 Part 5
Fire propagation index	I = 0	BS 476 Part 6
Surface spread of flame	Class 1	BS 476 Part 7
Fire resistance system	60 - 180[2] mins	BS 476 Part 20-22
Single burning item	Pass	EN 13823 : 2010
Fire classification	A2-s1, d0	EN 13501-1
OTHER		
Bending radius (Thickness 4 / 6 / 8 mm)	1.2 / 1.8 / 3.0 m	

1 The STC value is derived from the Marshall Day Program with a tolerance of ± 3STC
2 Selected system



Exterior wall
SCG Smartboard 12 mm
Iran

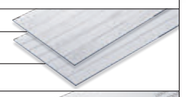
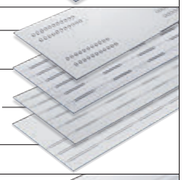
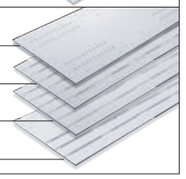
Ventilation Wood Grain
Protection 4 mm
San Ploen, Chiangmai



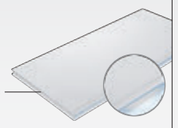
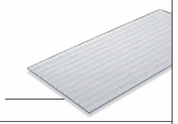
Exterior wall
Smartboard 12 mm
Iran

Ceiling
SCG Smartboard 4 mm
LAVE Cafe, Chiangmai

SCG SMARTBOARD ULTRA DIRECTORY

Application	Thickness	Width x Length (mm)	Weight	Effective Area (pcs/sq m)	Installation System	Series
Interior and Exterior Ceiling	3.5	600 x 2400	7.60	0.69	T-Bar Space Lining No Space Lining	Squared Edge
		603 x 603	2.00	2.78		
		610 x 610 (2'x2')	2.00	2.69		
		1200 x 1200	7.60	0.69		
		1200 x 2400	15.20	0.35		
		1220 x 2440 (4'x8')	15.80	0.34		
	4	600 x 1200	4.40	1.39		
		600 x 2400	8.70	0.69		
		600 x 2800	10.20	0.60		
		600 x 3000*	10.90	0.56		
		610 x 610 (2'x2')	2.30	2.69		
		1200 x 1200	8.70	0.69		
		1200 x 2400	17.40	0.35		
		1200 x 3000*	21.80	0.28		
		1220 x 1220 (4'x4')	9.00	0.67		
		1220 x 2440 (4'x8')	18.00	0.34		
	4.5	608 x 2440	10.1	0.68		
		1200 x 2400	19.60	0.35		
		1200 x 2700	22.10	0.31		
		1220 x 2440 (4'x8')	20.20	0.34		
	6	600 x 2400*	13.05	0.69		
		600 x 3000*	16.00	0.56		
		1200 x 2400	26.10	0.35		
		1200 x 2700	29.40	0.31		
		1200 x 3000*	32.70	0.28		
		1220 x 2440 (4'x8')	27.00	0.34		
	4	600 x 1200	5.00	1.39	Space Lining No Space Lining	Wood Grain 3-Inch lining 
		600 x 1200	5.10	1.39		
Ventilated Ceiling	4	600 x 1200	4.20	1.39	Space Lining No Space Lining	Ventilation Ventilated wood grain Ventilated 3-inch lining Ventilated half panel 
		600 x 1200	5.00	1.39		
		600 x 1200	4.90	1.39		
		600 x 1200	5.10	1.39		
Ventilated Ceiling Protection Series	4	600 x 1200	5.10	1.39		Ventilated capsule protection Wood grain protection 3-Inch lining protection Half panel protection 
		600 x 1200	5.00	1.39		
		600 x 1200	4.90	1.39		
		600 x 1200	4.20	1.39		

SCG SMARTBOARD ULTRA DIRECTORY

Application	Thickness	Width x Length (mm)	Weight	Effective Area (pcs/sq m)	Installation System	Series
Interior Wall	6	1200 x 2400	25.80	0.35	Conceal	2 side Tapered Edge 
	8	1200 x 2400	34.60	0.35		
		1200 x 2600	37.40	0.32		
		1200 x 2800	40.20	0.30		
	9	1200 x 2400*	38.90	0.35		
Interior and Exterior Wall	8	1200 x 2400	34.80	0.35	Space Lining	Squared Edge
		1220 x 2440 (4'x8')	36.00	0.34		
	9	1200 x 2400*	39.20	0.35		
		1200 x 3000*	49.00	0.28		
		1220 x 2440 (4'x8')	40.40	0.34		
	10	1200 x 2400	43.50	0.35		
		1220 x 2440 (4'x8')	44.90	0.34		
	12	1200 x 2400	52.20	0.35		
		1200 x 3000*	65.30	0.28		
		1220 x 2440 (4'x8')	53.90	0.34		
	14	1220 x 2440 (4'x8')	62.90	0.34		
	8	1200 x 2800	40.00	0.30		4-Inch Square Lining 
Underlay	8	1200 x 2400	34.80	0.35	Space Lining No Space Lining	Square Edge
		1220 x 2440 (4'x8')	36.00	0.34		
	9	1200 x 2400	39.20	0.35		
		1220 x 2440 (4'x8')	40.40	0.34		
	10	1200 x 2400	43.50	0.35		
		1220 x 2440 (4'x8')	44.90	0.34		
	12	1200 x 2400	52.20	0.35		
		1220 x 2440 (4'x8')	53.90	0.34		
	14	1220 x 2440	62.90	0.34		
Floor	15	1200 x 2400	65.30	0.35	Space Lining No Space Lining	Squared Edge
	16	1200 x 2400	69.60	0.35		
		1220 x 2440 (4'x8')	71.90	0.34		
	18	1200 x 2400	78.30	0.35		
		1220 x 2440 (4'x8')	80.80	0.34		
	20	1200 x 2400	87.00	0.35		
		1220 x 2440 (4'x8')	90.00	0.34		

*Made to order product

SCG SMARTBOARD TOOLS & ACCESSORIES

SCG Self drilling screw 18 mm
for Ceiling Application
- Fixing SCG Smartboard ceiling to galvanized frame
- Packing size : 500 pieces / box

SCG Needle point screw 23 mm
for Ceiling Application
- Fixing SCG Smartboard 4 -10 mm to galvanized frame
- Packing size : 500 pieces / box

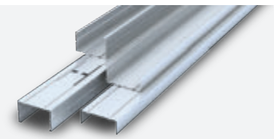
SCG Needle point screw 10 mm
for Wall Application
- Fixing galvanized frame C74 with U76
- Packing size : 500 pieces / box

SCG Self drilling wing screw 32 mm
for Wall Application
- Fixing SCG Smartboard 8 -12 mm to steel frame
- Packing size : 500 pieces / box

SCG Plaster Joint polymer Compound
for finishing
- for concealed jointing wall. Only use with SCG Smartboard tapered edge.
- Interior use only
- Packing size : 20 kgs / bag (5 small bags)

SCG Polyurethane sealant
- for space lining jointing wall.
- Interior and exterior use.
- Packing size : 310 ml / tube

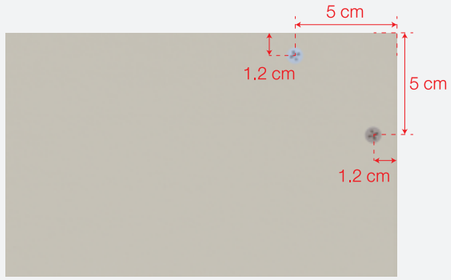
SCG Plaster Joint Compound
for finishing work (All Application)
- Fine cement texture, no granules, easy to mix, sticky, provides a smooth finish
- No mess, no cracking, peeling or shrinking because it has high adhesion ability
- Easy to finish with sandpaper
- Packing size : 25 kgs / bag



SCG Galvanize frame C74, U76
for Wall Application
- For wall installation.
- Coat with hot dip galvanized steel Z22.

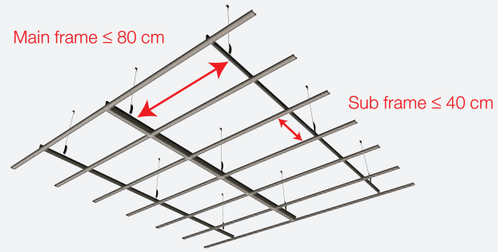
INSTALLATION

SCREW FIXING ON SCG SMARTBOARD



First screw fixing space is 5 cm from SCG Smartboard corner and 1.2 cm from edge and fix screw every 20 cm for next screw.

CEILING



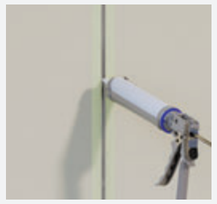
Frame : C-Line No.24
Main frame span: maximum 80 cm
Sub frame span: maximum 40 cm
SCG Smartboard Square Edge 3.5, 4, 6 mm

WALL

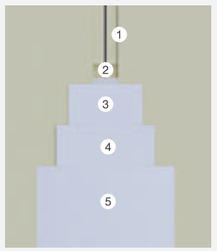
Frame: SCG Galvanized frame C74, U76, Steel frame
Frame span:
- Interior wall maximum 60 cm
- Exterior wall maximum 60 cm, depends on building height.

Space lining jointing wall:
- SCG Smartboard Square Edge 8, 10, 12 mm
- SCG Polyurethane sealant

Concealed jointing wall
***Interior only:**
- SCG Smartboard Tapered Edge 8, 9 mm
- SCG Smart joint polymer



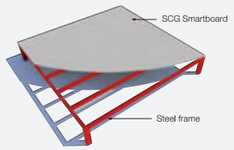
Space lining jointing wall
1. Leave jointing gap as wide as board thickness.
2. Clean dust and attach tape on SCG Smartboard edge.
3. Seal joint with SCG Smartboard polyurethane joint sealant, wipe off surplus PU and take out tape.



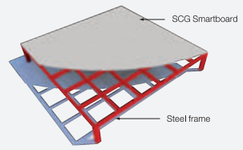
Concealed jointing wall
***Interior use only:**
1. SCG Smartboard Tapered Edge 8, 9 mm
2. Nylon tape width more than 3.5 cm
3. Coat 1st layer of mixed SCG Smart Joint 15 cm width
4. Coat 2nd layer of SCG Smart Joint 20 cm width
5. Coat 3rd layer of SCG Smart Joint 30 cm width

FLOOR

One way joist



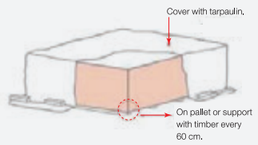
Two way joist



Joist: Steel frame
Frame span: maximum 60 cm *depends on load bearing and building type
SCG Smartboard Square Edge 15, 16, 18, 20 mm
SCG Gumcrete

HANDLING & STORING

SCG Smartboard must be carried in vertical direction with at least 2 people carry.



SCG Smartboard must be stored on a pallet or support with timber 1.5x3 inches every 60 cm on dry and levelled floor and covered with tarpaulin.