

# Ceiling Wall Floor SCG Smartboard



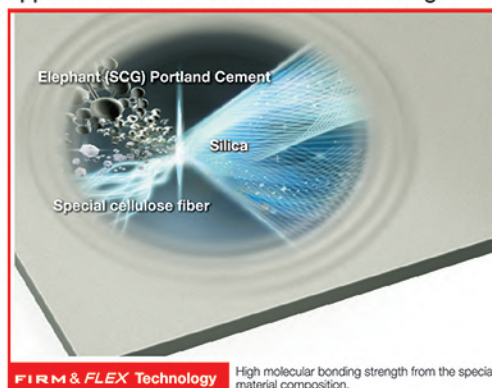
**FIRM FLEX**  
TECHNOLOGY

**Fiber Cement Board**  
Non Asbestos



## SCG Smartboard

is a new generation of fiber cement material with **FIRM & FLEX** Technology made the board gain strength, durability and elasticity in one time. SCG Smartboard, with state-of-the-art composition of Elephant (SCG) Portland Cement, Silica and Special cellulose fiber through Autoclave process, is specifically designed for various ceiling, wall and flooring applications both internal and external usage.



## Special Properties

|             |                                        |                                                                                                                                                                                                                                               |
|-------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FIRM</b> | High impact strength                   | High impact strength from state-of-the-art composition of Elephant (SCG) Portland Cement, Silica and Special cellulose developed by our laboratory.                                                                                           |
|             | Water-Resistance and Non-decay         | Long lasting even using in hot, humid, and strong raining weather condition according to JIS Standard A5420.                                                                                                                                  |
|             | Termite Resistance                     | Termite resistance from Portland cement material.                                                                                                                                                                                             |
| <b>FLEX</b> | Flexibility for various designs        | Bendable. No water is needed to applied while bending the board.<br>                                                                                                                                                                          |
|             | 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                 | With specially low heat conductivity compared to typical light-weight ceiling and wall material, SCG Smartboard is the ideal material for preventing heat from external environment, reducing energy consumption and answering green designs. |

## Specification and Standard

| Specification                                     | Test value                 | Standard                   |
|---------------------------------------------------|----------------------------|----------------------------|
| <b>Physical Property</b>                          |                            |                            |
| Density                                           | 1300 ±50 Kg/m <sup>3</sup> | ASTM C1185                 |
| Modules of rupture (wet condition)                | ≥10 Mpa                    | ASTM C1185                 |
| Sound Resistant (STC)                             | 38-61 dB * <sup>1</sup>    | Marshall Day Programe      |
| Heat or Thermal Conductivity (K)                  | 0.134 W/M <sup>2</sup> K   | ASTM C518                  |
| Water Apsorption                                  | 33%                        | ASTM C1185                 |
| Length changed after immersion in water (24 hrs.) | 0.12%                      | JIS A 5414                 |
| Moisture Movement                                 | 0.06%                      | MS 1296                    |
| pH                                                | 7-8                        | Litmus test                |
| Freeze/Thaw Resistance                            | Pass                       | ASTM C1185                 |
| Dimensionnal Conformance                          | Pass                       | ASTM C1186                 |
| <b>Durability Properties</b>                      |                            |                            |
| Water Peameability                                | 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              |
| <b>Fire resistance Properties</b>                 |                            |                            |
| Smoke developed index                             | Class A                    | ASTM E84-17                |
|                                                   | 0                          | Frame Spread Index(FSI)    |
|                                                   | 0                          | Smoke Developed Index(SDI) |
| Non-Combustible                                   | Non-Combustible            | BS 476 Part 4              |
| Ignitability                                      | Pass                       | BS 476 Part 5              |
| Fire propagation                                  | I=0                        | BS 476 Part 6              |
| Surface spread of flame                           | Class 1                    | BS 476 Part 7              |
| Fire resistance System                            | 60-180 * <sup>2</sup>      | BS 476 Part 22             |
| Single Burning Item                               | Pass                       | En 13823 : 2010            |
| Fire Classification                               | A2s2d0                     | BS EN 13501-1:2007+A1:2009 |
| <b>Other</b>                                      |                            |                            |
| Bending Radius (4,6,8 mm.)                        | 1.2,1.8,3.0 m.             |                            |

\*<sup>1</sup> The STC value is derived from the Marshall Day program with a tolerance of +/- 3 STC.

\*<sup>2</sup> Depends on the selected system.

## SCG Smartboard Ceiling : mix and match designs for decoration

**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.

### Interior Ceiling

Using several series of SCG Smartboard to make your ceiling fabulous.



### Interior Space Lining Ceiling

Using SCG Smartboard Squared Edge 4 mm. thick to give outstanding elegant style.



### Interior Space Lining Ceiling

Using SCG Smartboard Squared Edge 4 mm. thick.

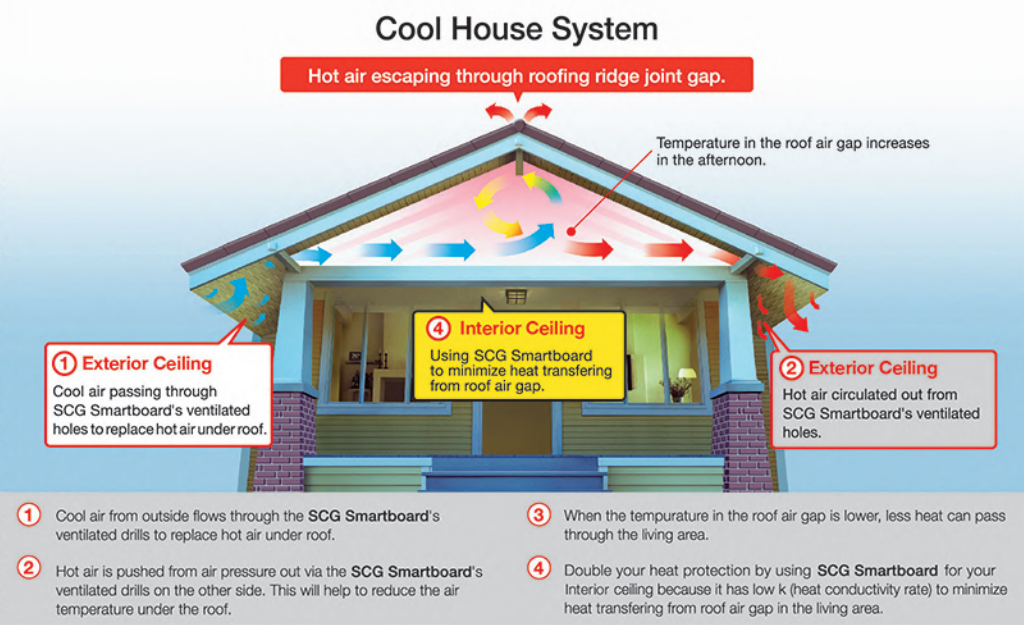


### Interior Space

Using SCG Smartboard Wood Grain 4 mm. thick to create natural style.



## SCG Smartboard Ceiling Ventilated Protection



### 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 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.

### External Wall

Using SCG Smartboard Squared Edge 8 - 14 mm. thick or 4-inch Square Lining 8 mm. thick to create space lining wall.



### Exterior Wall

Using SCG Smartboard 4-inch Square Lining 8 mm. thick.

### Interior Wall

Using SCG Smartboard Squared Edge 8, 9, 10, 12, 14 mm. thick to create concealed look for your wall.



before

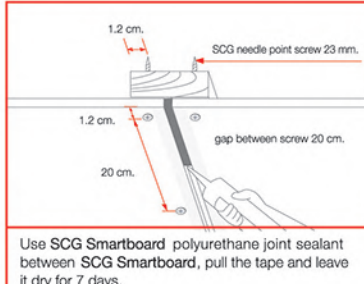
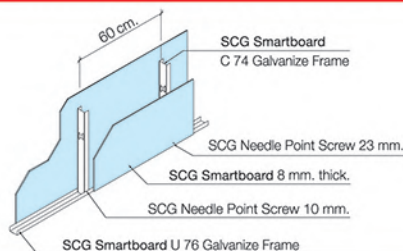


After

### Interior Wall

Using SCG Smartboard Squared Edge 8 mm. thick

Using SCG Smartboard , easy to install without any floor beam reinforcement



### SCG Smartboard polyurethane joint sealant

- This is the polyurethane material used to seal the joint, easily used, and perfectly adhere to the surface of SCG Smartboard or any construction materials such as fiber cement, concrete, brick, roof tile, ceramic tile, aluminium, timber, glass.
- Used as a joint sealant which can well prevent the leakage, can be used in either external or internal of building. Endure to the climate circumstance, and can be painted over without altering the color shade.
- Containing size : 310 ml./tube (grey color)
- Usage quantity : 4.8 m./tube

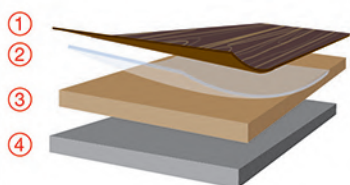


## SCG Smartboard Flooring and Underlay

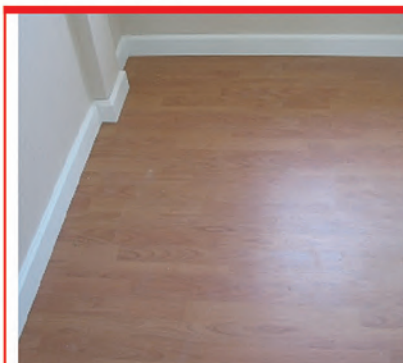
### SCG Smartboard Underlay

Using **SCG Smartboard** 8, 9, 10, 12 and 14 mm. thick to be installed as **floor underlay** for laminate, parquet, or rubber floor tiles.

- **Replacement of polished cement** reduce the construction time from 3 weeks to 3 days.
- **Replacement of Plywood** which costly but low quality.



1. Laminate, parquet, rubber tile floor
2. Foam panel
3. **SCG Smartboard**
4. Lean Cement



**Floor Underlay**

Using **SCG Smartboard** Squared Edge 8 mm. thick.

Using **SCG Smartboard** 8, 9, 10, 12 and 14 mm. thick to be installed as **sub roof** to prevent the leakage due to exterior water flow, in either.

- Shingle roof of wooden type.
- Concrete roof such as kite tile, etc.



**Sub Roof**

Using **SCG Smartboard** Squared Edge 8 mm. thick.

### SCG Smartboard Flooring Squared Edge 16, 18, 20 mm. thick

- **Tough and Endure** can support the load up to 500 kg./sq.m.
- **Suitable for**
  - Building work which requires rapidity of construction, such as hotel, resort, restaurant.
  - Rectification or Additional work which is concerning on load, and settlement of foundation.

| Product                     | Thickness (mm.) | Distance of support (cm.) | Type of building                             | Live Load (kg./m <sup>2</sup> ) |
|-----------------------------|-----------------|---------------------------|----------------------------------------------|---------------------------------|
| <b>SCG Smartboard Floor</b> | 16              | 40                        | House / Residence                            | 150                             |
|                             |                 | 40                        | Hotel / Dormitory                            | 200                             |
|                             | 18, 20          | 40                        | Office / Bank                                | 250                             |
|                             |                 | 40                        | School / University                          | 300                             |
|                             |                 | 30                        | Departmentstore / Cinema / Hall / Restaurant | 400                             |
|                             |                 | 30                        | Cargo / Museum / Plant / Publisher           | 500                             |

**Remark**

- Do not use in the house's floor area which can be wetted or moist, do not use for carrying load higher than 100 kg. per set (area is not less than 10 sq.cm.)
- Please refer to the most updated Installation Manual prior use.

| Width (cm.) | Length (cm.) | Thickness (cm.) |
|-------------|--------------|-----------------|
| 120, 122    | 240, 244     | 1.6             |
| 120, 122    | 240, 244     | 1.8             |
| 120         | 240          | 2.0             |



**SCG Smartboard Squared Edge 16, 18, 20 mm. thick**



**SCG Smartboard Flooring, tough and Endure**



**Building Floor which is decorated by covering with the ceramic tiles**

# SCG Smartboard Equipment for installation

## SCG Self Drilling Point Screw 10 mm.

- Used to fix SCG Smartboard C 74 and U 76 Galvanize Frame , or fix SCG Smartboard C 74 and C 74 Galvanize Frame in order to make as door or window frames.
- Easily install, can drill and fix firmly with two or three layers of 0.55 mm. thick of steel ceiling frames.
- Endure to the rust or corrosion because the material is made from high-quality steel wires, can be used either external or internal.
- Containing size : 500 pieces / box



## SCG Self Drilling Screw 18mm for Ceiling

- Screw head is specially designed to be embedded into panel. Easy and neat finishing.
- Pilot hole is not required before screwing: Able to fix steel up to 3.2mm thick.
- Drilling faster: The wing nail will be destroyed automatically.
- Non-Rusting: Screw is made from high quality steel and coated with galvanize class 3. Able to use external and internal with high strength.
- Containing size: 500 pieces/box



## SCG Needle Point Screw 23 mm.

- Specially designed to suit with the work operated with Fiber cement material safely, endure, and nice.
- Longer life for rust or corrosion, because the material is made from high-quality steel wires, can be used either external or internal.
- Designed to provide the fin around the screw head which make the screw head fully embedded in the panel automatically resulting nice surface of work.
- Containing size : 500 pieces / box



## SCG Self Drilling Wing Screw 32 mm.

- Specially designed to suit with the work operated with Fiber cement material safely, endure, and nice.
- Longer life for rust or corrosion, because the material is made from high-quality steel wires, can be used either external or internal.
- Specially designed to provide special drill end, which will not require advance penetration, easily operated, and can drill rapidly into the steel, its fin can core the panel allowing the screw head to be perfectly and nicely embedded into the panel. The fin will automatically break whenever the steel is eventually penetrated.
- Containing size : 500 pieces / box



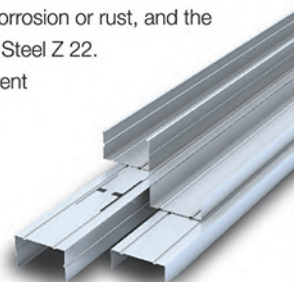
## SCG Smartboard polyurethane joint sealant

- This is the polyurethane material used to seal the joint, easily used, and perfectly adhere to the surface of SCG Smartboard or any construction materials such as fiber cement, concrete, brick, roof tile, ceramic tile, aluminium, timber, glass.
- Used as a joint sealant which can well prevent the leakage, can be used in either external or internal of building. Endure to the climate circumstance, and can be painted over without altering the color shade.
- Containing size : 310 ml./tube (grey color)
- Usage quantity : 4.8 m./tube



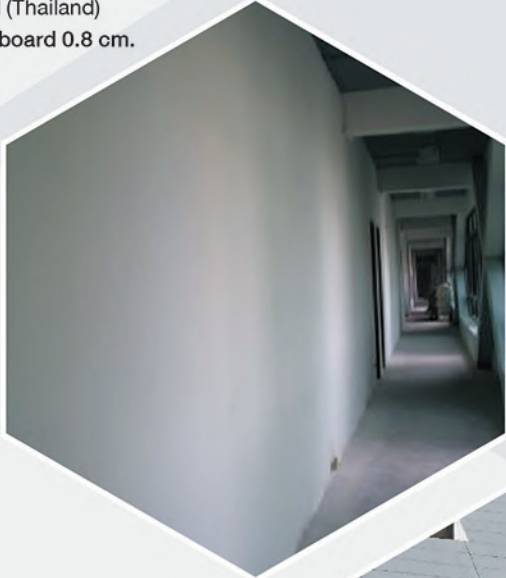
## SCG Smartboard C 74, U 76 Galvanize Frame

- Thick steel material providing strength, safety, and manufactured in accordance with TIS.863-2532 with full thickness of 0.55 mm.
- Economic section with 45, 47 mm. width frame section, which will not require to make the support for the frame in the joint area between SCG Smartboard panel, and will reduce the time and labor for installation. The material is endured for corrosion or rust, and the surface is coated by Hot Dip Galvanized Steel Z 22.
- Coated by specially thick surface to prevent rust or corrosion.



## SCG Smartboard Wall Reference Site

Interior Wall (Thailand)  
SCG Smartboard 0.8 cm.



Interior Wall (Iran)  
SCG Smartboard 1.0 cm.



Exterior Cladding (Iran)  
SCG Smartboard 1.2 cm.



Interior and Exterior  
wall and floor  
SCG Smartboard 1.0 cm.



Exterior Wall (India)  
SCG Smartboard 1.2 cm.



Interior Wall  
SCG Experience, Bangkok  
Using SCG Smartboard  
Square Edge 8 mm. thick plastered  
with plastering cement,  
make 1 - 3 cm. skim coat.



Exterior Wall (Iran)  
SCG Smartboard 1.2 cm



Exterior Wall (Iran)  
SCG Smartboard 1.2 cm



Exterior Wall (India)  
SCG Smartboard 1.2 cm



Exterior Wall (Bangkok)  
SCG Smartboard 1.0 cm



Exterior Ceiling  
Using **SCG Smartboard**  
Ventilated Wood Grain  
4 mm. thick.



Interior Wall  
Luxor Hotel, Bangkok  
Using **SCG Smartboard**  
Square Edge 8 mm. thick  
make the lighting pocket  
on bed's head.

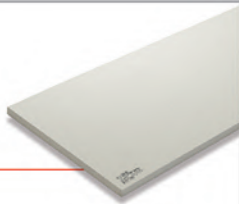


Interior Wall  
SCG Experience, Bangkok  
Using **SCG Smartboard** Square Edge  
8 mm. thick plastered with plastering  
cement, make 1 - 3 cm. skim coat.

## Choosing SCG Smartboard to match your application

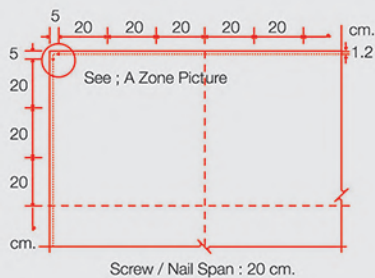
| Application                           | Thickness (mm.) | Width x Length (mm.) | Installation system                      | Weight (kg./pc.) | Effective Area (pcs./sq.m.) | Series                                                                                                       |
|---------------------------------------|-----------------|----------------------|------------------------------------------|------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| Interior and Exterior Ceiling         | 3.2             | 603x1213             | T-Bar<br>Space lining<br>No space lining | 3.6              | 1.37                        | <div>Squared Edge</div>  |
|                                       |                 | 610x1220 (2'x4')     |                                          | 3.6              | 1.34                        |                                                                                                              |
|                                       |                 | 1220x1220 (4'x4')    |                                          | 7.2              | 0.67                        |                                                                                                              |
|                                       | 3.5             | 600x2400             |                                          | 7.6              | 0.69                        |                                                                                                              |
|                                       |                 | 1200x1200            |                                          | 7.6              | 0.69                        |                                                                                                              |
|                                       |                 | 1200x2400            |                                          | 15.2             | 0.35                        |                                                                                                              |
|                                       |                 | 603x603              |                                          | 1.9              | 2.75                        |                                                                                                              |
|                                       |                 | 603x1210             |                                          | 3.9              | 1.37                        |                                                                                                              |
|                                       |                 | 610x1210             |                                          | 4                | 1.34                        |                                                                                                              |
|                                       |                 | 1220x1220 (4'x4')    |                                          | 7.9              | 0.67                        |                                                                                                              |
|                                       |                 | 1220x2400 (4'x8')    |                                          | 15.8             | 0.34                        |                                                                                                              |
|                                       | 4               | 600x1200             |                                          | 4.4              | 1.39                        |                                                                                                              |
|                                       |                 | 600x2400             |                                          | 8.7              | 0.69                        |                                                                                                              |
|                                       |                 | 1200x1200            |                                          | 8.7              | 0.69                        |                                                                                                              |
|                                       |                 | 1200x2400            |                                          | 17.4             | 0.35                        |                                                                                                              |
|                                       |                 | 610x610 (2'x2')      |                                          | 2.3              | 2.69                        |                                                                                                              |
|                                       |                 | 1220x1220 (4'x4')    |                                          | 9                | 0.67                        |                                                                                                              |
|                                       |                 | 1220x2400 (4'x8')    |                                          | 18               | 0.34                        |                                                                                                              |
|                                       | 4.5             | 1220x2400 (4'x8')    |                                          | 20.2             | 0.34                        |                                                                                                              |
|                                       | 6               | 1200x2400            |                                          | 26.1             | 0.35                        |                                                                                                              |
|                                       |                 | 1220x2440 (4'x8')    |                                          | 27               | 0.34                        |                                                                                                              |
|                                       | 4               | 600x1200             | Space lining                             | 5                | 0.72                        | Wood Grain                                                                                                   |
|                                       |                 |                      | No space lining                          | 5.1              |                             | 3-inch Square Lining                                                                                         |
| Ventilated Ceiling                    | 4               | 600x1200             | Space lining<br>No space lining          | 4.2              | 1.39                        | Ventilated                                                                                                   |
|                                       |                 |                      |                                          | 4.9              |                             | Ventilated Wood Grain                                                                                        |
|                                       |                 |                      |                                          | 5.1              |                             | Ventilated 3-Inch Square Lining                                                                              |
|                                       |                 |                      |                                          | 5                |                             | Protection                                                                                                   |
| Ventilated Ceiling (Protection Serie) |                 |                      |                                          | 4.2              |                             | <div>NEW</div> Ventilated                                                                                    |
|                                       |                 |                      |                                          | 4.9              |                             | <div>NEW</div> Ventilated Wood Grain                                                                         |
|                                       |                 |                      |                                          | 5.1              |                             | <div>NEW</div> Ventilated 3-Inch Square Lining                                                               |
|                                       |                 |                      |                                          | 5                |                             | <div>NEW</div> Protection                                                                                    |
|                                       |                 |                      |                                          |                  |                             |                                                                                                              |
|                                       |                 |                      |                                          |                  |                             |                                                                                                              |

## Choosing SCG Smartboard to match your application

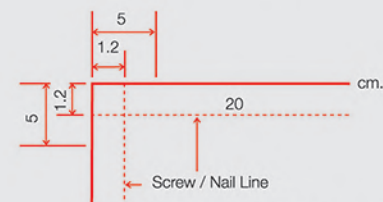
| Application                | Thickness (mm.) | Width x Length (mm.) | Installation system            | Weight (kg./pc.) | Effective Area (pcs./sq.m.) | Series                                                                                                     |
|----------------------------|-----------------|----------------------|--------------------------------|------------------|-----------------------------|------------------------------------------------------------------------------------------------------------|
| Interior and Exterior Wall | 6               | 1220x2440 (4'x8')    | Concealed                      | 26.7             | 0.34                        | 2 side Tapered Edge     |
|                            | 8               | 1200x2800            |                                | 40.2             | 0.3                         |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 35.6             | 0.34                        |                                                                                                            |
|                            | 10              | 1200x2400            |                                | 43.5             | 0.35                        |                                                                                                            |
|                            | 12              | 1220x2440 (4'x8')    |                                | 53.6             | 0.34                        |                                                                                                            |
|                            | 6               | 1200x2400            | Spce lining                    | 26.1             | 0.35                        | Squared Edge            |
|                            |                 | 1220x2440 (4'x8')    |                                | 27               | 0.34                        |                                                                                                            |
|                            | 8               | 1200x2400            |                                | 34.8             | 0.35                        |                                                                                                            |
|                            |                 | 1200x2800            |                                | 40.6             | 0.3                         |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 36               | 0.34                        |                                                                                                            |
|                            | 9               | 1200x2400            |                                | 39.2             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 40.4             | 0.34                        |                                                                                                            |
|                            | 10              | 1200x2400            |                                | 43.5             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 44.9             | 0.34                        |                                                                                                            |
|                            | 12              | 1200x2400            |                                | 52.2             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 53.9             | 0.34                        |                                                                                                            |
|                            | 14              | 1000x2000            |                                | 42.3             | 0.5                         |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 62.9             | 0.34                        |                                                                                                            |
|                            | 8               | 1200x2800            | Spce lining                    | 40               | 0.3                         | 4-inch Square Lining  |
| Underlay                   | 8               | 1200x2400            | Spce lining<br>No space lining | 34.8             | 0.35                        | Squared Edge          |
|                            |                 | 1200x2800            |                                | 40.6             | 0.3                         |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 36               | 0.34                        |                                                                                                            |
|                            | 9               | 1200x2400            |                                | 39.2             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 40.4             | 0.34                        |                                                                                                            |
|                            | 10              | 1200x2400            |                                | 43.5             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 44.9             | 0.34                        |                                                                                                            |
|                            | 12              | 1200x2400            |                                | 52.2             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 53.9             | 0.34                        |                                                                                                            |
|                            | 14              | 1220x2440 (4'x8')    |                                | 62.9             | 0.34                        |                                                                                                            |
| Flooring                   | 16              | 1200x2400            | No space lining                | 69.6             | 0.35                        | Squared Edge          |
|                            |                 | 1200x3000            |                                | 87               | 0.28                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 72               | 0.34                        |                                                                                                            |
|                            | 18              | 1200x2400            |                                | 78.3             | 0.35                        |                                                                                                            |
|                            |                 | 1220x2440 (4'x8')    |                                | 81               | 0.34                        |                                                                                                            |
|                            | 20              | 1200x2400            |                                | 87               | 0.35                        |                                                                                                            |

## Fixing a nail or screw on SCG Smartboard

1. Fix on SCG Smartboard every 20 cm. and away from the edge 1.2 cm. with nail or screw.
2. Wooden Studs ; use hammer to nail down. Steel Studs ; use electric drill not more than 2500 rpm. to drill the SCG screw down.



Screw / Nail Span : 20 cm.



A Zone Picture

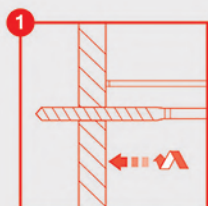
## Installing SCG Smartboard Ceiling and Wall

| Product                            | Thickness (mm.) | Installation type                                                                                   | Jointing Accessory                                                                                  | Fixing Accessory                                        |
|------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Internal / External Ceiling</b> |                 |                                                                                                     |                                                                                                     |                                                         |
| Lite                               | 3.2 - 3.5       | SCG Smartboard Polyurethane joint sealant                                                           | Fix with 1.5 x 3.0 inch wooden studs. With maximum stud span of 60 cm.                              | 1, 1.5 inch Wood nail                                   |
| Squared Edge                       | 4.0             |                                                                                                     |                                                                                                     |                                                         |
| Ventilated                         | 4.0             |                                                                                                     |                                                                                                     |                                                         |
| Wood Grain                         | 4.0             |                                                                                                     | Fix with 0.55. thick Galvanize Steel Studs of 100 and 40 cm. respectively.                          | SCG Self-Drilling Screw 18 mm. (Counter sunk head)      |
| Ventilated Wood Grain              | 4.0             |                                                                                                     | Fix with 1.2 - 3.2 mm. steel                                                                        |                                                         |
| 3-inch Square Lining               | 4.0             |                                                                                                     |                                                                                                     |                                                         |
| Ventilated 3-inch Square Lining    | 4.0             | SCG Grumcrete                                                                                       |                                                                                                     |                                                         |
| Squared Edge                       | 4.0 - 6.0       |                                                                                                     |                                                                                                     |                                                         |
| <b>Internal Wall</b>               |                 |                                                                                                     |                                                                                                     |                                                         |
| Squared Edge                       | 8.0 - 14.0      | SCG Smartboard C 74, U 76 Galvanize Frame without pre-drilling with the maximum stud span of 60 cm. |                                                                                                     |                                                         |
| 4-inch Square Lining               | 8.0             |                                                                                                     |                                                                                                     | SCG Needle Point Screw 23 mm. (Counter sunk head)       |
| <b>External Wall</b>               |                 |                                                                                                     |                                                                                                     |                                                         |
| Squared Edge                       | 8.0 - 14.0      |                                                                                                     | Fix with 1.2 - 3.2 mm. steel studs (C 75) without pre-drilling with the maximum stud span of 60 cm. | SCG Self Drilling Wing Screw 32 mm. (Counter sunk head) |
| <b>Floor</b>                       |                 |                                                                                                     |                                                                                                     |                                                         |
| Squared Edge                       | 16.0 - 20.0     |                                                                                                     | Fix with 1.2 - 3.2 mm. steel studs without pre-drilling with the maximum stud span of 40 cm.        | Self Drilling Screw 45 mm. (Counter sunk head)          |

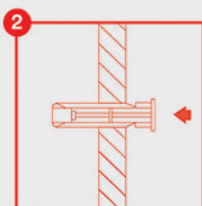
\* Please study SCG Smartboard Installation manual for more information.

## Hanging Objects on SCG Smartboard Ceiling and Wall

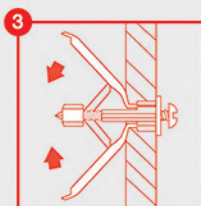
Can be easily done by sinking butterfly-wing plastic hook in the ceiling or wall in the point that you wish to hang your object, simply follow these steps



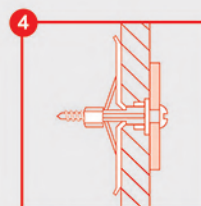
Mark and Drill your desire point



Sunk butterfly-wing plastic hook into the ceiling or wall hole



Drill the screw into the butterfly-wing plastic hook



When the screw is completely installed the butterfly-wing will be tightly fix with the SCG Smartboard

### Recommendations

1. Use the table below to estimate the weight bearing level of different thickness and usage of SCG Smartboard.
2. When hanging heavy weight objects, it is advised to fix your object in the position that is on the studs, the maximum weight stand will also vary depending on the strength of different studs.

| Product                      | Application | Accessory                                               | Maximum Weight Stand (kg.) |
|------------------------------|-------------|---------------------------------------------------------|----------------------------|
| SCG Smartboard 3.5 mm. thick | Ceiling     | butterfly-wing plastic hook PT - 5 with drilling screw  | 5                          |
| SCG Smartboard 4 mm. thick   | Ceiling     | butterfly-wing plastic hook PT - 5 with drilling screw  | 7                          |
| SCG Smartboard 6 mm. thick   | Ceiling     | butterfly-wing plastic hook PT - 13 with drilling screw | 10                         |
| SCG Smartboard 8 mm. thick   | Wall        | butterfly - wing steel hook PT - 13 with drilling screw | 80                         |

### Painting

Chose your own color shade

1. Use old cement primer paint to increase the life time your finishing paint.
2. Use 100% Acrylic paint 1 - 2 times for complete cover up of the original surface color. (the durability of the paint depends on the quality of your chosen paint)

### Cautions

- Recommended for ceiling, wall, floor, backer and underlay board only. Do not use as any building's structure or other purposes. The installation shall follow the Installation Manual and use only the standard equipment.
- Eating, intaking and inhaling of the dust that results from drilling, grinding, shearing, washing the materials are prohibited.

### Concerned Points

- The Products of SCG Smartboard are designed, while the operation methods are specified to suit with the working condition in Thailand only. Any application outside Thailand is considered to be direct responsibility of the designer, construction supervisor, and installer.
- Installation Manual of Products is always updated. The designer, construction supervisor, and installer shall verify that all methods being used are following the most update of Installation Manual of Products.