

Installation Manual for SCG SmartWOOD

Fiber Cement wood substitute

Non Asbestos





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SCG SmartWOOD products range

Products application	name	width (cm.)	thickness (cm.)	length (cm.)	weight kg./pcs.	surface	edges	color/model	section	usage quantity
Fence Plank		7.5 cm. (3")	1.2	400	5.4	Teak texture	Squared edge	Primer		3.33 pcs./sq.m.
for fencing, wooden		7.5 cm. (3")	1.6	400	7.3	Teak texture	Squared edge	Primer		3.33 pcs./sq.m.
walls decoration,	Fence	10 cm. (4")	1.2	400	7.3	Teak texture	Squared edge	Primer		2.50 pcs./sq.m.
general decoration,	Plank	10 cm. (4")	1.6	400	9.7	Teak texture	Squared edge	Primer		2.50 pcs./sq.m.
exterior and interior		10 cm. (4")	1.6	400	9.7	2 side Burr wood texture	Squared edge	Cream Primer		2.50 pcs./sq.m.
shading.		15 cm. (6")	1.2	400	10.9	Teak texture	Squared edge	Primer		1.67 pcs./sq.m.
Floor Plank		10 cm. (4")	2.5	300	11.3	Burr wood texture	Squared edge	Cream Primer		3.33 pcs. / sq.m.
for exterior or interior	Floor Plank	15 cm. (6")	2.5	300	16.9	Burr wood texture	Squared edge	Cream Primer		2.22 pcs. / sq.m.
floor decoration.) I	20 cm. (8")	2.5	300	22.6	Burr wood texture	Squared edge	Cream Primer		1.67 pcs. / sq.m.
Wood Plank		20 cm. (8")	0.8	300	7.2	Teak texture	Lining borde Skirt Board edge	Colonial	~~~	1.9 pcs./sq.m.
for wall & panel		20 cm. (8")	0.8	300	7.2	Teak texture	1 side Square Lining	New England		1.9 pcs./sq.m.
or decoration.		15 cm. (6")	0.8	300	5.4	Teak texture		Golden teak		
				400	7.2	Teak texture		Red maka		
	6							Walnut		size 15 x 300 (cm.) Use 2.7 pcs. / sq.m.
	Wood	20 cm. (8")	0.8	300	7.2	Teak texture		Silky Rose		size 15 v 400 (cm.)
	Plank			400	9.7	Teak texture	Squared edge			size 15 x 400 (cm.) Use 2.0 pcs. / sq.m.
								lvory		size 20 x 300 (cm.)
								Sky		Use 1.9 pcs. / sq.m.
		177						Oak Red		size 20 x 400 (cm.)
								Primer		Use 1.5 pcs. / sq.m.
						Deep wood texture	Squared edge	Uncolor		
_	Eaves liner	7.5 cm. (3*)	0.8	300	2.7	Smooth surface	2-side tapered	Uncolor/ Brown Oak		4.44 pcs./sq.m.
 for external and internal ceilings. 		10 cm. (4")	0.8	300	3.6	Smooth surface	2-side tapered	Uncolor		3.33 pcs./sq.m.
ge	Eaves liner	10 cm. (4")	0.8	300	3.6	Smooth surface	squared edge	Uncolor		3.33 pcs./sq.m.
	Eaves liner Wood Grain	7.5 cm. (3")	0.8	300	2.7	Deep wood texture	squared edge	Uncolor		4.44 pcs./sq.m.
		10 cm. (4")	1.6	400	9.3	Teak texture	1-side tapered	Primer		0.25 pcs. / m.
Fascia Board	Fascia Board	15 cm. (6")	1.6	400	14.2	Teak texture	1-side tapered	Primer/Golden teak		0.25 pcs. / m.
for fascia or		20 cm. (8")	1.6	400	19.0	Teak texture	1-side tapered	Primer/Golden teak		0.25 pcs. / m.
gables.	Fascia Board	15 cm. (6")	1.6	300	10.6	Smooth surface	1-side tapered	Cream Primer		0.33 pcs. / m.
	Smooth surface	20 cm. (8")	1.6	300	14.3	Smooth surface	1-side tapered	Cream Primer		0.33 pcs. / m.
	Eaves Filler	15 cm. (6")	0.8	300	4.1	Teak texture	-	Primer/ Golden teak		0.33 pcs. / m.
Skirt Board • for covering floor	Skirt Board	10 cm. (4")	1.2	300	5.0	Smooth surface	1-side Skirt Board edge	Primer		0.33 pcs. / m.
and wall joints, decoration,	Skirt Board	7.5 cm. (3")	1.2	300	4.0	Smooth surface	1-side tapered	Primer		0.33 pcs. / m.
or shading.	Modern	10 cm. (4")	1.2	300	5.4	Smooth surface	1-side tapered	Primer		0.33 pcs. / m.
Shading Plank		Aggregation and the second			20,000					
 for sunscreening, 	Shading	7.5 cm. (3")	1.2	300	4.1	Smooth surface		Primer		4.44 pcs./sq.m.
shading, or light screening.	Plank	10 cm. (4")	1.2	300	5.5	Smooth surface	Squared edge	Primer		3.33 pcs./sq.m.
Ceiling Border • for decorating ceiling and wall jointing area.	Ceiling Border	5.0 cm. (2")	0.8	300	1.7	Smooth surface	1-side tapered	Uncolor		0.33 pcs. / m.



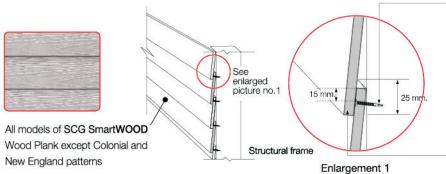
Installation methods for SCG SmartWOOD Wood Plank

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	
Wood	15 cm. (6") 15 cm. (6") 20 cm. (8") 20 cm. (8")	0.8	300 400 300 400	Teak texture Teak texture Teak texture Teak texture	Squared edge	Golden teak, Red maka, Walnut*, Silky Rose, Ivory, Sky*, Oak Red Primer, Uncolor		7.2 7.2	2.7 pcs./sq.m. 2.0 pcs./sq.m. 1.9 pcs./sq.m. 1.5 pcs./sq.m.
Plank	20 cm. (8")	0.8	300	Teak texture	Colonial style	lvory		7.2	1.9 pcs./sq.m.
	20 Cm. (6)	0.8	300	reak texture	New England style	lvory		1.2	1.9 pcs./sq.m.

*15 cm. Wide Only

Installation of various models of plank

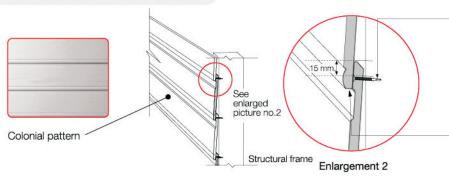
Installation of all models except Colonial and New England patterns



Fixed by nail at 15 mm. from top edge. For the structural steel, fixed by SCG Self Drilling Wing Screw 28.5 mm. for hard wood frame or galvanized frame, fixed by SCG Needle Point Screw 23 mm.

Overlapping distance of the SCG SmartWOOD Wood Plank is about 25 mm.

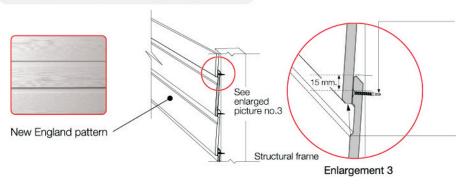
Installation of Colonial pattern



Fixed by nail at 15 mm. from top edge. For the structural steel, fixed by SCG Self Drilling Wing Screw 28.5 mm. for hard wood frame or galvanized frame, fixed by SCG Needle Point Screw 23 mm.

Installation of Colonial pattern must be placed with trim edge on lower side and must be placed over the groove of lower plank.

Installation of New England pattern



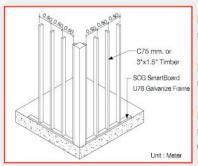
Fixed by nail at 15 mm. from top edge. For the structural steel, fixed by SCG Self Drilling Wing Screw 28.5 mm. for hard wood frame or galvanized frame, fixed by SCG Needle Point Screw 23 mm.

Installation of New England pattern must place the side without groove on lower side and must be placed over the groove of lower plank.

Installation methods for SCG SmartWOOD Wood Plank

2.1 Installation of wall joist for SCG SmartWOOD Wood Plank

Installation of timber joist frames and steel joist frames



In case of Timber joist use 3" x 1.5" Timber

In case of Steel joist use C75 Structural Steel

In case of Interior wall use SCG SmartBoard C74 , U76 Galvanize Frame



In case of installation of the Steel joist, Timber joist or SCG SmartBoard C74 Galvanize Frame provide 50 cm. spacing measured from center of one joist to another joist.

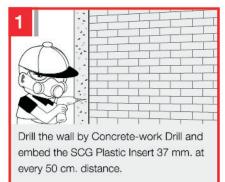
Recommendation for installation of Joist frame

- Determine alignment of wall on floor and ceiling by using plummet.
- · Joist fames must be installed and fixed firmly.
- All other equipment such as power ducts or water pipes shall be installed with joists properly prior installation of SCG SmartWOOD Wood Plank.
- Size of main Joist frame for the installation shall be designed and considered by the Engineer.
- Area which designated to be a joint of plank shall be supported by double frame stud, in order to provide more fixing areas for the Joist to plank and prevent cracking at the corner.

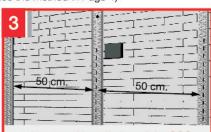
2.2 Installation of SCG Galvanize C-Line for bricking wall

In case the wall is in vertical and level plane

prior installation of the SCG Galvanized C-Line, ensure that the wall for installation shall not be inclined and be in level plane (if the wall is not vertical, nor in level, use the Bracket, see the method in Page 4)

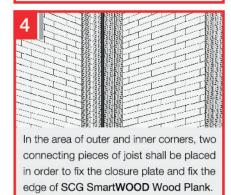


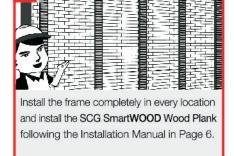




 In case of installation of the SCG SmartWOOD Wood Plank horizontally, install the SCG Galvanize C-Line in vertical direction.

 In case of installation of the SCG SmartWOOD Wood Plank vertically, install the SCG Galvanize C-Line in horizontal direction.





* Install the SCG Galvanize C-Line with 50 cm. spacing between centers of one frame to another frame and adjust the level plane by using wedge.

⚠ Caution

• Do not use SCG SmartWOOD Wood Plank as the fall prevention fences or hang the heavy-weight material without any supporting joist frame.

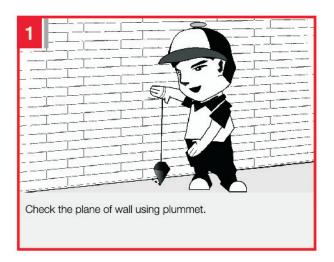
Recommendation

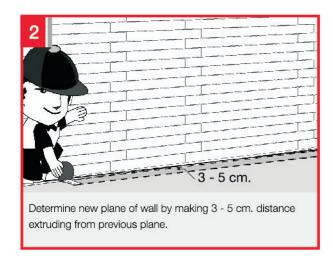
Area which designated to be a joint of plank shall be supported by double frame stud in order to provide more fixing areas for the Joist to
plank and prevent cracking at the corner.



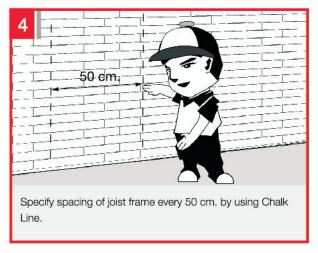
o In case the wall is not vertical (inclined) and is not in level plane

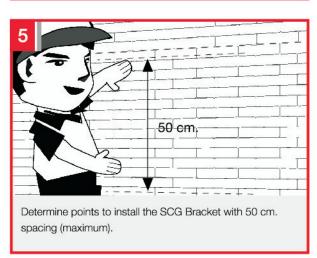
In case the wall is not vertical (inclined) and is not in level plane, ones cannot install Joints frame to the wall directly. New wall plane shall be determined again, in order to allow the installation of plank on wall to be in vertical and level plane properly, by following steps.

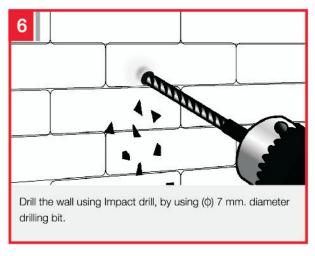




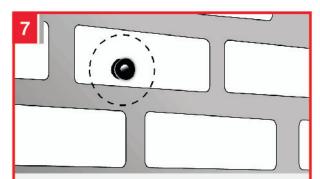




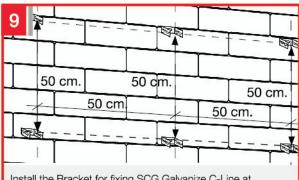




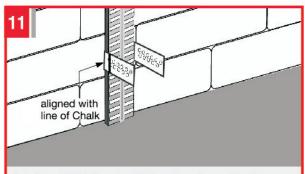
(Please See article 7-14 on page 5)



Embed SCG Plastic Insert 37 mm. in order to install the Bracket for fixing SCG Galvanize C-Line



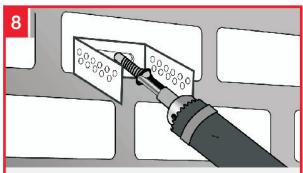
Install the Bracket for fixing SCG Galvanize C-Line at every point.



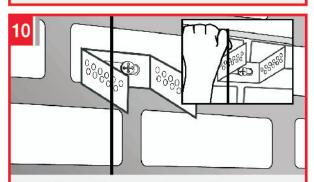
Install the SCG Galvanized C-Line frame by making the frame's front to be aligned with line of Chalk.



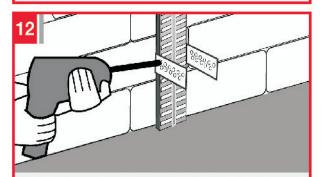
Fold both flanges of Bracket which extruded out to be parallel to the plane of SCG Galvanize C-Line frame.



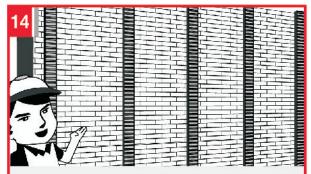
Install the Bracket for fixing SCG Galvanize C-Line by using SCG Needle Point Screw 38 mm.



Transfer the level from upper to lower position by using Chalk Line.



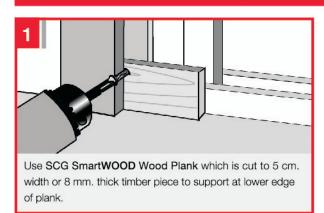
Fix the Bracket for fixing SCG Galvanize C-Line to the SCG Galvanize C-Line frame by using 1 of SCG Self Drilling Screw 13 mm. on each side.

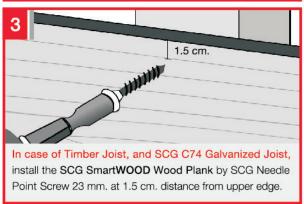


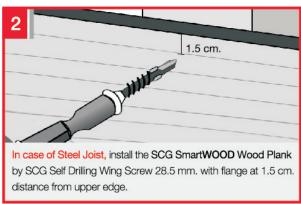
Install the frame at every point and install the SCG SmartWOOD Wood Plank following the Installation Manual Page 6.



2.3 Installation Procedure of SCG SmartWOOD Wood Plank

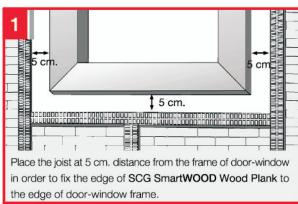


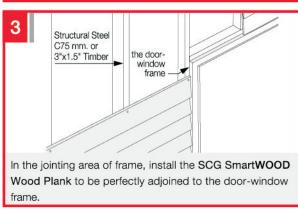


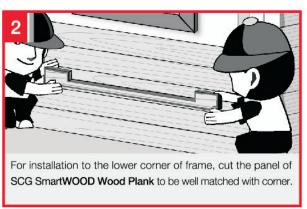


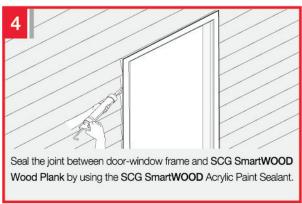


Installation of SCG SmartWOOD Wood Plank in the area of door-window frame







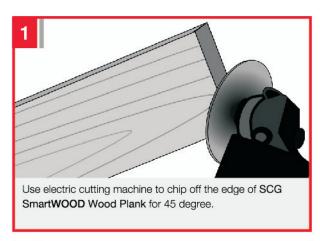


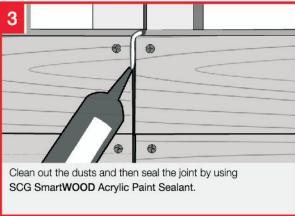
2.4 Lengthening and joint sealing

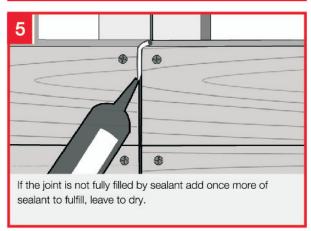
Method No. 1 Lengthening of the SCG SmartWOOD Wood Plank by cutting 45 degree shall be done in the area to which joist frame is supporting and cut into 45 degree with 3 mm. width groove, then fixed by SCG Self Drilling Wing Screw 28.5 mm. with flange. Seal the joint by using SCG SmartWOOD Acrylic Paint Sealant, then cover by color painting for better appearance.

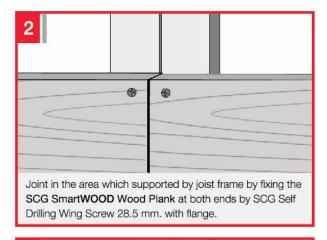
Method No. 2 Lengthening of the SCG SmartWOOD Wood Plank without cutting 45 degree shall be done by leaving the spacing between joints for about 5 mm., then seal the joint by using SCG SmartWOOD Acrylic Paint Sealant.

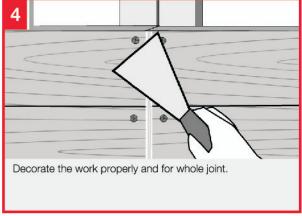
Methods for jointing and sealing of the joints between SCG SmartWOOD Wood Plank

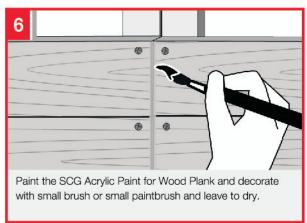








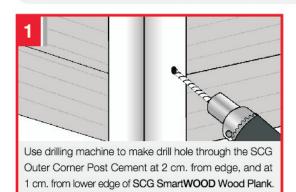






2.5 Installation of SCG Cement Corner Post

Installation of SCG Outer Corner Post Cement





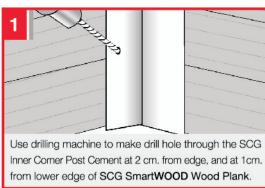
Lies drilling machine to make drill help through SCG

Use drilling machine to make drill hole through SCG SmartWOOD Wood Plank at the position which drilled previously by using 7 mm. Concrete penetration drill.

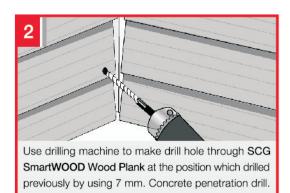


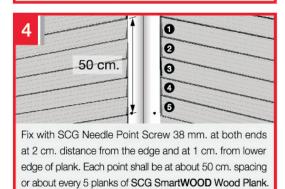
Fix with SCG Needle Point Screw 38 mm. at both ends at 2 cm. distance from the edge and at 1 cm. from lower edge of plank. Each point shall be at about 50 cm. spacing or about every 5 planks of SCG SmartWOOD Wood Plank.

Installation of SCG Inner Corner Post Cement





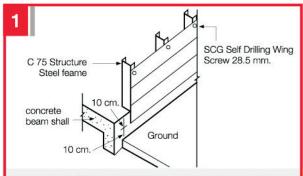




- Recommendation
- Installation of SCG Inner Corner Post Cement shall be carried out after complete the installation of SCG SmartWOOD Wood Plank without 45 degree cutting of the Board.
- Make color painting on the SCG Corner Post Cement by using the SCG Acrylic Floor Paint for Floor Fiber Cement.
 However, prior doing that apply prime coating on existing surface to make better appearance to the wall.

2.6 Installation of SCG SmartWOOD in the moistened area and ceiling area

Installation of Plank in the moistened area



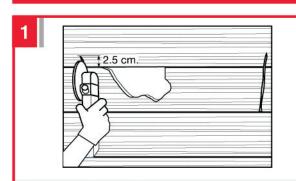
For external SCG SmartWOOD Wood Plank which is close to the ground level, the level of concrete beam shall be lifted up for at least 20 cm. and install SCG SmartWOOD Wood Plank at 10 cm. lower from beam level.

o Installation of Plank in the area jointing to ceiling

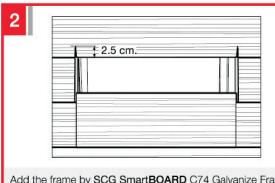


In case that SCG SmartWOOD Wood Plank is jointed to the Smartboard Ceiling Complete the Installation of SCG SmartBOARD Ceiling prior to install SCG SmartWOOD Wood Plank to be jointed to the SCG SmartBOARD Ceiling.

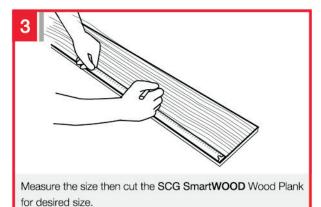
2.7 Reparation of broken panel of SCG SmartWOOD Wood Plank

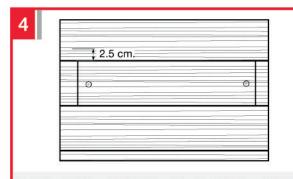


Cut the SCG SmartWOOD Wood Plank which is broken or damaged from the whole span of Joist frame by cutting to overlapping plank in another 2.5 cm. in order to take out the whole broken plank.



Add the frame by SCG SmartBOARD C74 Galvanize Frame fixed with the lower part frame which is broken.



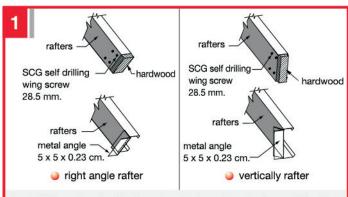


Install the SCG SmartWOOD Wood Plank to SCG SmartBOARD C74 Galvanize Frame which added. Seal the joint following the Installation Manual Page 7 furnish nails head following the Manual Page 19.

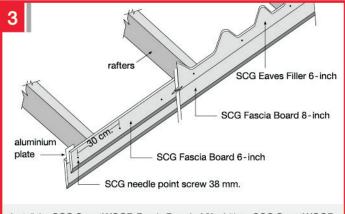


Installation of SCG SmartWOOD Fascia Board/ SCG SmartWOOD Eaves Filler

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
Fascia Board	10 cm. (4") 15 cm. (6") 20 cm. (8")	1.6 1.6 1.6	400 400 400	Teak texture Teak texture Teak texture		Primer Primer/Golden teak Primer/Golden teak			0.25 pcs./m. 0.25 pcs./m. 0.25 pcs./m.
Fascia Board Smooth surface	15 cm. (6") 20 cm. (8")		300 300	Smooth surface Smooth surface	1-side tapered 1-side tapered	Cream Primer Cream Primer		10.1 13.5	0.33 pcs./m. 0.33 pcs./m.
Eaves Filler	15 cm. (6")	0.8	300	Teak texture	-	Primer/ Golden teak		4.1	0.33 pcs./m.

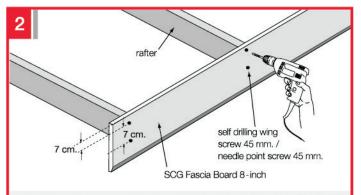


Install 50 cm. length of timber piece to the edge of rafter and fixed by SCG Self Drilling Wing Screw 28.5 mm. with flange. In another mean, use angle installed perpendicularly to the rafter alignment (left Figure) or installed vertically with the rafter alignment (right Figure).

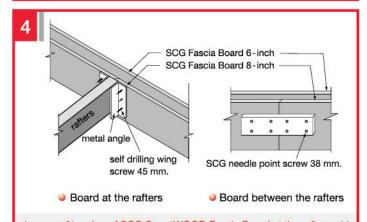


Install the SCG SmartWOOD Fascia Board of 6" width or SCG SmartWOOD Eaves Filler by overlapping with 8" width and fixed by one of Self Drilling Screw 45 mm. to the angle. Fix the SCG SmartWOOD Fascia Board of 6" width to the board of 8" width at every 30 cm. distance by SCG Needle Point Screw 38 mm. and insert 10 x 5 cm. Aluminum plate between eaves for every fixing.

*In case that the hard-wood is used for covering the end of rafter, fixed by 45 mm. sharp-end screws.



In case that angle is used for covering the end of rafter, install the SCG SmartWOOD Fascia Board of 8" width fixed by two of Self Drilling Screw 45 mm. with flange at each point. In case that the hard-wood is used for covering the end of rafter, use 45 mm. sharp-end screws instead.

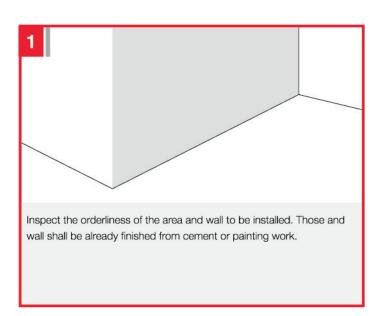


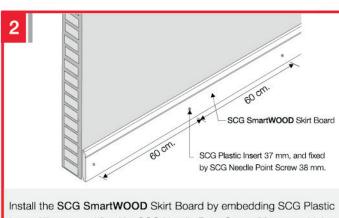
In case of lapping of SCG SmartWOOD Fascia Board at the rafter, add another angle at rafter and fixed by Self Drilling Screw 45 mm. In case of lapping of SCG SmartWOOD Fascia Board between the rafters, use 3" width and 30 cm. length of timber piece to dovetail at the backside of joint and fixed by four of SCG Needle Point Screw 38 mm. at each side. In case that the lapping is made at gable board, use the SCG SmartWOOD Fascia Board of 4" width to cover the 6" width board following the Methods No. 2-4.



4 Installation of SCG SmartWOOD Skirt Board

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
Skirt Board	10 cm. (4")	1.2	300	Smooth surface	1-side Skirt Board edge	Primer		5.0	0.33 pcs./m.
Skirt	7.5 cm. (3")	1.2	300	Smooth surface	1-side tapered	Primer		4.0	0.33 pcs./m.
Board Modern	10 cm. (4")	1.2	300	Smooth surface	1-side tapered	Primer		5.4	0.33 pcs./m.

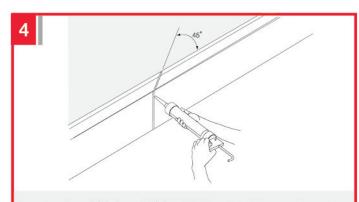




Insert 37 mm., and fixed by SCG Needle Point Screw 38 mm. or hitting by 2" nails for concrete for every 60 cm. at the center of plank.



For the light wall, it shall be fixed by SCG Self Drilling Wing Screw 32 mm. with flange at every 60 cm. spacing of joist frame. On the back side, it shall be pained by Fiber cement-purpose Epoxy or with Ayara Tile Fixing Glue at the center for every 30 cm. in case that the wall is made from SCG SmartWOOD Wood Plank, install the lowest plank to be perpendicular to the floor without any support at edge.



Lapping of the SCG SmartWOOD Skirt Board shall be done by cutting 45 degree and sealed by SCG SmartWOOD Joint sealant and then paint it over again for by Acrylic color.



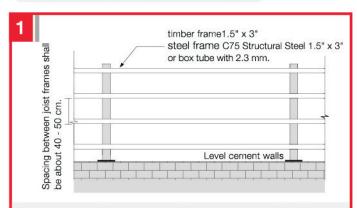
Recommendation • Refer the decoration method of screws head and painting from Pages 18-19.



Installation of SCG SmartWOOD Fence Plank / Shading Plank

	Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
		7.5 cm. (3")	1.2	400	Teak texture	Squared edge	Primer		5.4	3.33 pcs./sq.m.
		7.5 cm. (3")	1.6	400	Teak texture	Squared edge	Primer		7.3	3.33 pcs./sq.m.
	Fence	10 cm. (4")	1.2	400	Teak texture	Squared edge	Primer		7.3	2.50 pcs./sq.m.
	Plank	10 cm. (4")	1.6	400	Teak texture	Squared edge	Primer		9.7	2.50 pcs./sq.m.
///		10 cm. (4")	1.6	400	2 side Burr wood texture	Squared edge	Cream Primer		9.7	2.50 pcs./sq.m.
		15 cm. (6")	1.2	400	Teak texture	Squared edge	Primer		10.9	1.67 pcs./sq.m.
	Shading	7.5 cm. (3")	1.2	300	Smooth surface	Squared edge	Primer		4.1	4.44 pcs./sq.m.
	Plank	10 cm. (4")	1.2	300	Smooth surface	Squared edge	Primer		5.5	3.33 pcs./sq.m.

Installation of Fence on Joist frame



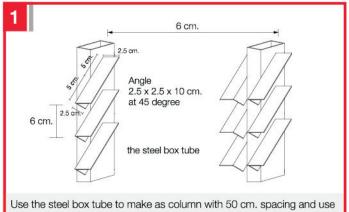
Preparation of Joist frame, in case of timber frame, use 1.5" \times 3" timber. In case of steel frame, use C75 Structural Steel or 1.5" \times 3" box tube with 2.3 mm. thickness. Spacing between joist frames shall be about 40 - 50 cm.

SCG SmartWOOD Fence Plank or Shading Plank SCG Needle Point Screw 38 mm. (For Steel Joist frame) SCG Needle Point Screw 38 mm. (For Timber frame) For Steel Joist frame, install the SCG SmartWOOD Fence Plank or

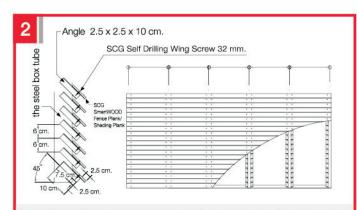
Shading Plank by using SCG Self Drilling Wing Screw 32 mm. or SCG Needle Point Screw 38 mm. Position of screws fixing shall be

at center of plank or use nuts and bolts for fixing.

Installation of Sunshine Protection Curtain



Use the steel box tube to make as column with 50 cm. spacing and use 2.5x2.5x10 cm. angle at 45 degree inclination to fix on the side of steel tube by SCG Self Drilling Screw 13 mm. with flange. Allow the angle to be extruded for about 5 cm. and make 6 cm. spacing between each plank.



Install the SCG SmartWOOD Fence Plank or Shading Plank by using 32 mm. SCG drill-end Screw with flange. Allow the end of plank to be extruded from end of angle for 2.5 cm.

A Caution

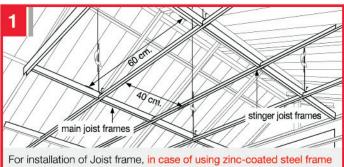
• Do not use SCG SmartWOOD Fence Plank / SCG SmartWOOD Shading Plank as the fall prevention fences or any part of structure which will directly withstand the load.

Recommendation

• Refer the decoration method of screws head and painting from Pages 18-19.

6 Installation of SCG SmartWOOD Eaves Liner

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
Eaves liner	7.5 cm. (3")	0.8	300	Smooth surface		brown Oak		2.7	4.44 pcs./sq.m.
Eaves liner	10 cm. (4")	0.8	300	Smooth surface Smooth surface				3.6	3.33 pcs./sq.m. 3.33 pcs./sq.m.
Eaves liner Wood Grain	7.5 cm. (3")	0.8	300	Deep wood texture	squared edge	Uncolor		2.7	4.44 pcs./sq.m.



(C-Line) use 1" width, No. 24. Spacing between main joist frames shall not more than 60 cm. while stinger joist frames shall be about 40 cm.



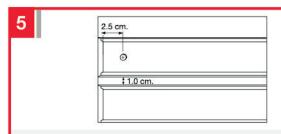
For installation of Joist frame, in case of using timber frame, use hard wood, which already been oven dried and prevent the termite by chemical essence with size 1.5"x3" size. Spacing between main joist frames shall not more than 6 cm. while stinger joist frames shall be about 40 cm.



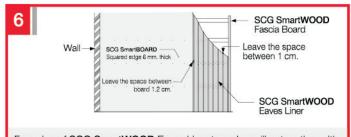
For installation of Joist frame, in case of using steel frame, the material shall be 1.2-3.2 mm. thickness and already coated by corrosion protective paint. Spacing between main joist frames shall not more than 6 cm. while stinger joist frames shall be about 40 cm.



Prior to installation of SCG SmartWOOD Eaves Liner, the insect or animal protection net shall be installed.



Install the SCG SmartWOOD Eaves Liner with 1 cm. spacing between each stick or as required. In case of using timber frame, or zinc-coated steel frame, use SCG Needle Point Screw 23 mm. to fix. In case of using steel frame, use SCG Self Drilling Wing Screw 28.5 mm. with flange to fix, at least 2.5 cm. from edge of board. In case of using SCG SmartWOOD Eaves Liner with 4" width, fixed by two Screws at each point.



For using of SCG SmartWOOD Eaves Liner to make ceiling together with SCG SmartBOARD shall leave 1 cm. joint for better appearance.

↑ Caution

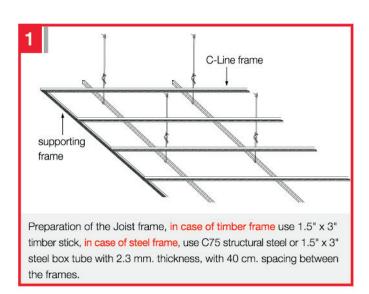
• Do not use SCG SmartWOOD Eaves Liner as the fall prevention fences or terrace guardrail, or any part of structure which will directly withstand the load.

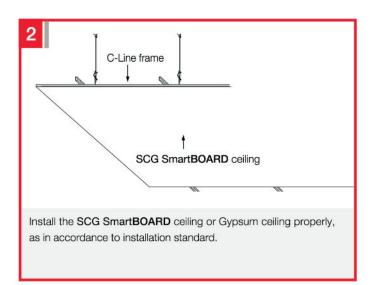
Recommendation • Refer the decoration method of screws head and painting from Pages 18-19.

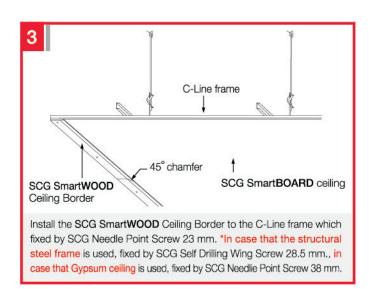


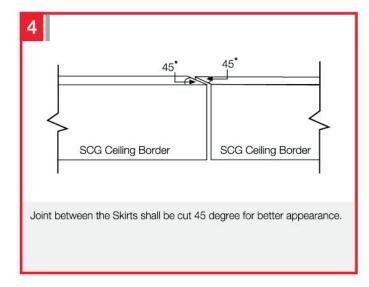
Installation of SCG SmartWOOD Ceiling Border

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
Ceiling Border	5 cm. (2")	0.8	300	Smooth surface	1-side tapered	Uncolor		1.73	0.33 pcs./m.







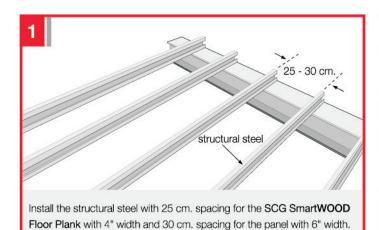


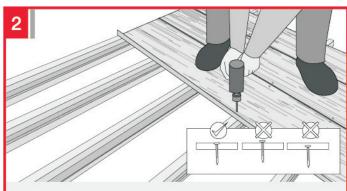
- Do not use SCG SmartWOOD Ceiling Border as the fall prevention fences or terrace guardrail, or any part of structure which will directly withstand the load.
- Recommendation Refer the decoration method of screws head and painting from Pages 18-19.

Installation of SCG SmartWOOD Floor Plank

Products name	width (cm.)	thickness (cm.)	length (cm.)	surface	edges	color/model	section	weight kg./pcs.	usage quantity
	10 cm. (4")	25	300	Burr wood texture	Squared edge	Cream Primer		11.3	3.33 pcs./m.
Floor Plank	15 cm. (6")	25	300	Burr wood texture	Squared edge	Cream Primer		16.9	2.22 pcs./m.
	20 cm. (8")	25	300	Burr wood texture	Squared edge	Cream Primer		22.6	1.67 pcs./m.

Installation on the Structural steel

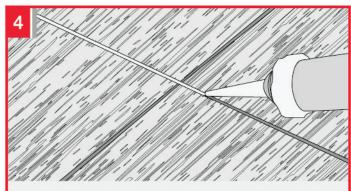




Fix the SCG SmartWOOD Floor Plank to structural steel by Self Drilling Screw 45 mm. by fixing the screws until it embeds in to the panel surface about 1-2 mm.



Fix the screws at the distance from panel end and panel edge for at least 2 cm. For 6" width panel, fix at 2 points per stinger position and for 4" width panel, fix at 1 point at center of panel.



If it is necessary to joint the floor panel, it shall be done on the position of steel stinger. The joints shall be sealed by SCG SmartWOOD Acrylic Paint Sealant and paint over by SCG Acrylic Floor Paint for Floor Fiber Cement specially made for floor panel.

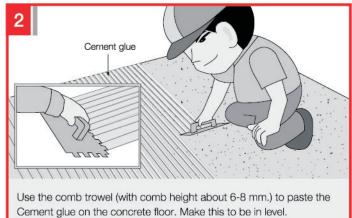
▲ Caution • Do not use as any building's structure or other purposes. The installation shall follow the Installation Manual and use only the standard equipments made by producer • Do not eat • Avoid the smelling • Do not Install SCG SmartWood as floor higher than 50 cm. • Do not use in wet area.



Installation of SCG SmartWOOD Floor Plank

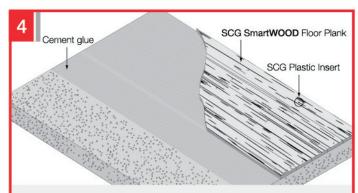
Installation on the Concrete floor







Paste Cement glue lightly in whole backside of SCG SmartWOOD Floor Plank.



Lay the SCG SmartWOOD Floor Plank on Cement glue together with SCG Needlie Point Screw 38 mm. and SCG Plastic Insert every 60 cm. and leave it for 24 hours to dry. After that paint over by SCG Acrylic Floor Paint for Floor Fiber Cement specially made for floor panel.

9

Painting Method for Fiber Cement Floor with SCG Acrylic Paint



Surface Preparation

The surface shall be wiped and cleaned to be without dust, oil stain and other dirt. Then leave it to dry prior painting. If one wants to change the color of Fiber Cement floor panel from original color, the existing one must be polished and taken off from the panel prior new painting.



Color Preparation

Mix the color emulsion properly before application without mixing with water. However, if the viscosity of emulsion is too high, add more water for about 5-10%.



Color Painting for SCG SmartWOOD Floor Plank, prime coat

Paint the required color of SCG Acrylic Floor Paint for Floor Fiber Cement 2-3 layers until the intensity of color is reached. Each layer shall be pained lightly to be completely dried and paint in same direction along the pattern of plank.

Soft brush shall be used for painting to achieve smooth surface color, while hard brush shall be used for painting to achieve the wood splinter.

Painting for ordinary Fiber cement wood floor panel

paint the SCG Acrylic Floor Paint for Floor Fiber Cement, prime coat, in 1 round. Then, leave for about 4-6 hours to completely dry. In case that the painting surface is uneven, paint over again and leave to dry prior 2-3 layers of painting by Fiber Cement Board Paint color until achieve required intensity.

Remark

- 1 Color Can shall be used for painting in 50-60 sq.m. in 1 round
- Duration for touchable dry 20-30 minutes for paint over again 1-2 hours for real application 4-6 hours.

10 Painting Method for Fiber Cement Products with SCG Acrylic Paint

In case that the user want to make colors of other plank to be greasy as coated by the urethane (except the SCG SmartWOOD Floor Plank), use the SCG Acrylic Floor Paint for Floor Fiber Cement



Surface Preparation

the surface shall be wiped and cleaned without dust, oil stain and other dirt. Then leave it to dry prior painting. If one wants to change the color of Fiber Cement floor plank from original color, the existing one must be polished and taken off from the pane prior new painting.



Color Preparation

Mix the color emulsion properly before application without mixing with water. However, if the viscosity of emulsion is too high, add more water for about 5-10%.



Painting of Prime Coat

Paint the SCG Acrylic Paint for Fiber Cement prime coat 1 round, leave for about 4-6 hours to be completely dried. In case that the painted surface is not uniform, paint over again and leave to be completely dry before applying painting over.



Applying Painting Over

Paint the required color of SCG Acrylic Paint for Fiber Cement 1-3 layers until the intensity of color is reached. Each layer shall be pained lightly to be completely dry and paint in same direction along the pattern of plank. Soft brush shall be used for painting to achieve smooth surface color, while hard brush shall be used for painting to achieve the wood splinter.

11 Painting method for SCG SmartWOOD

SCG SmartWOOD is already coated by acrylic emulsion which produced by modernized color spraying system. The products then can be used immediately without requiring another painting. However, in case there is necessary to paint in order to change color shades, repair the plank or use the SCG SmartWOOD of the model which can be changed the color as preferred such as Cement Model or Primer Coat Model. The using of those products shall perform by following recommendations.

Painting of SCG SmartWOOD (Cement Color Model)

- Clean the surface by clean water, leave until completely dry.
- Paint the Primer Coat for old cement at least 1 time.
- 3 Paint by SCG Acrylic Paint for Wood Plank, the SCG Acrylic Paint for Eaves Liner in oak brown, or 100% Acrylic emulsion. In case the user may require the surface of product to be glossy, then shall chose the Semi-Gloss type of Acrylic emulsion by paint at least twice until the required intensity is reached.

Painting of SCG SmartWOOD (Primer Coat Model)

- 1 Ensure that the surface is in dry condition without dust or stain.
- 2 Paint by SCG Acrylic Paint for Wood Plank or 100% Acrylic emulsion without painting any prime coat. In case the user may require the surface of product to be glossy, then shall chose the Semi-Gloss type of Acrylic emulsion by paint at least twice until the required intensity is reached.

Painting of SCG SmartWOOD, Classic color group (ivory, sky blue, red oak) Flora color group (silky rose) and SCG SmartWOOD Eaves Liner, oak brown color

In case that require new color painting

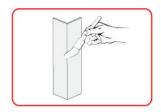
- Clean the surface properly to avoid dust or stain.
- Painted by SCG Acrylic Paint for Wood Plank at least twice until the required intensity is reached.

Painting of SCG SmartWOOD, Natural wood color group (golden teak, walnut and red maka)

The SCG SmartWOOD of this color group has been coated by high-quality of Acrylic emulsion by special spraying differently from other groups. As a result, it is not recommended to paint the color again for whole panel, since aesthetic pattern can be lost. However, if there is necessary for reparation, particular repair is suggested by paint layer by layer while leaving each layer to dry out before painting another layer. Then paint color for at least twice until the required intensity is reached.

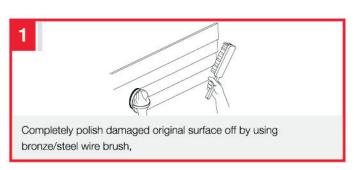
Painting of SCG Corner Post Cement

- Clean the surface by clean water, leave until completely dry.
- Paint the Prime Coat for old cement at least 1 time.
- Paint by SCG Acrylic Paint for Wood Plank or 100% Acrylic emulsion by paint at least twice until the required intensity is reached.





12 Reparation of SCG SmartWOOD









13 Coloring for decoration and reparation of SCG SmartWOOD

SCG Acrylic Paint for Wood Plank



- Use for painting over nailing mark or plank jointing.
- It 's 100% acrylic, beautiful and shiny.
 It 's body remains just the same as the original SCG SmartWOOD substitute.
- 1 kg./bucket Every type of tree grain color available in SCG Wood Plank

SCG Acrylic Paint for Fiber Cement (WOOD STAIN)



- For painting fibercement substitute wood in general, such has Wood Plank, Eaves Liner, Fence Plank. Gives a glossy look, as if painted with urethane with a natural look, sunlight-resistant, rain-resistant. Good for both exterior and interior.
- 100% water-based, clear acrylic. Also, available in primer and three colors.
- 3.785 l., 3.6 kg./bucket

SCG Acrylic Paint for Eaves Liner in oak brown



- Paint doors or spaces between slats SCG Wood, especially oke brown. With slats, apply primer first on the old surface before applying your chosen color.
- Use 100% water-based acrylic for attractiveness and shine.
- Use 1 kg./bucket

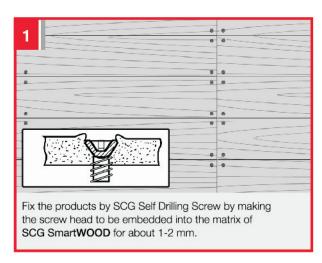
SCG Acrylic Paint for Fiber Cement Floor (WOOD STAIN)

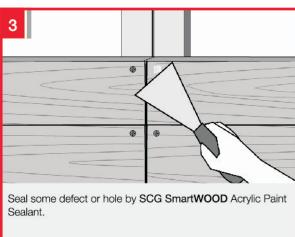
- Painting the fibercement wood will give it a glossy look like urethane with a natural, scuff-proof finish, sunlight- resistant, rain-resistant, better footing than alternatives.
- 100% water-based acrylic. Two choices: matt and gloss.
- 3.785 l., 3.6 kg./bucket

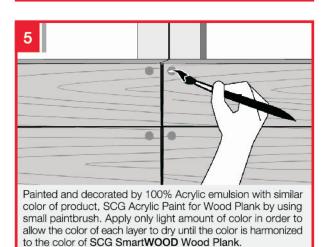
14 Special technique of SCG SmartWOOD installation

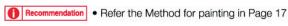
Decoration of Screw's head

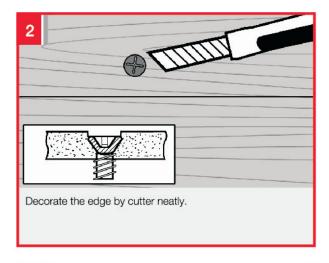
Methods for Decoration of Screw's head

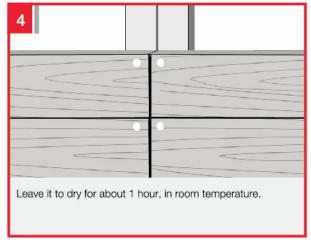


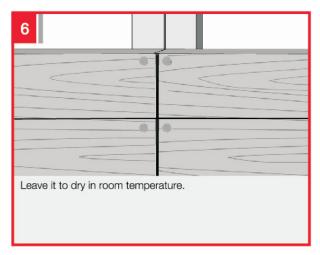










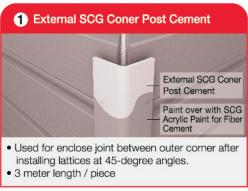




15 Selection of fixing equipment and joists frame for SCG SmartWOOD

Product	Application Area	Accessory		Packaging Size
	Interior	SCG Needle Point Screw 23 mm.	Damman.	500 pcs./box
	Exterior	SCG Self Drilling Wing Screw 28.5 mm.	-	250 pcs./box
Wood Plank	Brick Walls or old Concrete walls	SCG C-Line SCG Bracket SCG Needle Point Screw 38 mm. with SCG Plastic Insert 37 mm. SCG Self Drilling Screw 13 mm.	January Parisas	1 strip 60 pcs./pack 250 pcs./box 250 pcs./box 500 pcs./box
		SCG Self Drilling Wing Screw 28.5 mm.	<u>Amanine</u>	250 pcs./box
Fascia Board/Eave Filler		SCG Needle Point Screw 38 mm.	Jermanistratus-	250 pcs./box
	Fascia	2.5 inch Screw)	Available in typical store.
		Self Drilling Screw 45 mm.	\$-maximizations	Available in typical store.
Eaves Liner/Ceiling Border	Interior and Exterior	SCG Needle Point Screw 23 mm.	>	500 pcs./box
	interior and Exterior	SCG Self Drilling Wing Screw 28.5 mm.	· Omnorma	250 pcs./box
Skirt Board	Interior and Exterior	SCG Needle Point Screw 38 mm. with SCG Plastic Insert 37 mm.	Americana -	250 pcs./box 250 pcs./box
Fence Plank/Shading Plank	Interior and Exterior	SCG Self Drilling Wing Screw 32 mm.	<u> </u>	500 pcs./box
Floor Plank	Interior and Exterior	Self Drilling Screw 45 mm.	Quantimetrate or	Available in typical store.

Accessory equipment for installation of SCG SmartWOOD





- installing lattices at 45-degree angles.
- 3 meter length / piece



- inset nail heads to avoid subsidence.
- · Heat-resistant, adaptable for both exterior and interior.
- Fill 310 ml./tube



SCG SmartWOOD Installation Instruction



Caution

• Do not use as structure of any building, nor use in other purposes. Users must strictly follow either installation manual, or equipment which are only in accordance with the Standards of Producer.



Do not eat



avoid the smelling.

Do not use as floor which installed higher than 50 cm. or more from ground level.
 Do not use in the areas that are always wet and moistening.



Attention

- SCG SmartWOOD Product is designed and its application is specified to suit work condition in Thailand only. Application in other countries is considered as direct responsibility of the Designer, Construction Supervisor, and Installer.
- · Painting products are containing the chemical substances. Do not eat or allow any contact with eye.
- · During use, standardized Personal Protection Equipment shall be used. After finish the work, close the containers tightly and keep out of children.
- If feel irritated after have skin contact, wash with clean water for several times, and immediately see the doctor.
- If swallow or eat, do not make the patient vomit but drink lot of clean water in order to make the chemical substance diluted. Then, immediately see the doctor.
- Specifications for installation are only the fundamental recommendation for general operation. Correct method of installation and structures to be used shall consider from the Standard of Structural Steel Building E.I.T. 1015-40, and Specification for Design of the Ministry Regulation Vol. 6 (1884), which announced in the Act of Building Control 1979.

For Designer

- Any Properties specified in this document are the average values from Testing of Product which followed the specified standards, by sampling from the Products during the period before distribution only.
- Specifications for installation are only the fundamental recommendation for residential houses, or any building which is not higher than 23 m. only. For any
 other buildings, or buildings with higher risk shall consider the wind load for design of structures and fixing methods as well. If it is necessary to calculate
 while lack of certified document from reliable institute, the unit wind load following Item 17 of the Ministry Regulation Vol. 6 (1884), which announced in
 the Act of Building Control 1979.
- Application of products which are not in the application purposes shown in this Installation Manual shall be direct responsibility of Designer, and Construction Supervisor.

For Installer and User

- Specifications for installation are only the fundamental recommendation for general operation. Correct method of installation and structures to be used shall consider from the Standard of Structural Steel Building E.I.T. 1015-40, and Specification for Design of the Ministry Regulation Vol. 6 (1884), which announced in the Act of Building Control 1979.
- In any case that the users require applying the Product for uses in other purposes which are not specified in this Installation Manual, consult with Architect and Engineer.

0

Recommendation for Safety Operation

- The SCG SmartWOOD Products compose of the silica. Cutting, grinding, drilling, or polishing of the products may cause the distributing dust. If those are
 accidentally eaten or inhaled to human body in considerable amount and over a long period, this may case danger to human body and the respiratory system.
- Cutting, grinding, drilling, or polishing of the products shall be carried out in well ventilated area. Avoid using the machine for cutting, grinding, drilling, or polishing of the products that may cause high amount of dust.
- Do not work during bad climates such as, during storm, or raining, or on the wetting roof.
- Always wear Personal Protection Equipment which is in accordance to the Standards, such as dust mark, safety goggle, clothes, hand glove, safety shoes.
- Any person who does not wear the Personal Protection Equipment which is in accordance to the Standards, or any unauthorized person who does not involve
 to the work must not go near to the working area, in order to avoid dangerous circumstance which may occur.
- Lifting or transportation of products shall be performed with special attention. It is prohibited to bow oneself for lifting. Do not twist the body or change direction during lifting. Moreover, avoid long period of continuous work in order to prevent injury or fatigue.
- · Every time of lifting, ones must lower their body and hold the product firmly, then apply strength from their legs in order to lift up.
- For cleaning the working area after complete the works of cutting, grinding, drilling, or polishing of the products, use vacuum machine and seal the dust containing bag tightly, or use the cleaning liquid. Do not sweep the dust since it can make dust spread out.
- Separate and collect the debris of material resulted from installation, reparation, dismantling of products with special attention. Then those shall be disposed
 by corrective means in accordance to the sanitary regulations specified by the government.
- · Clean the body using clean water after Cutting, grinding, drilling, or polishing of the products.

First Aid

• If the dust or any material debris accidentally enters the eye, do not rub or scrub. Clean with pure water several times, and immediately see the doctor.

Verify that all methods are following the most update of Installation Manual of Products

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. They can confirm by the website: www.siamfibrecement.com



