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# U.S.C WPC

Wood Plastic Composites

- Wood Plastic Composite
- Deck, Design Fence
- Landscape Facilities
- Coco Yaja Mat
- PVC Premium Lattice
- Screw Pile



USC aims to reach the world's highest level in the field of synthetic wood, through continuous research and development, to produce high-quality synthetic wood products.

The products enjoys great reputations domestically and also globally in such places like Europe, the United States, Japan, and South America.

USC team are devoted to product research and development by providing the best service with high quality and affordable price.

# Outstanding quality in the world



## Contains

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As an eco-friendly alternative to natural wood, new materials for building materials will be opened.

- Non - Slip** The multiple surface treatments endow an aesthetic outlook and an anti-slip functionality.
- Use recyclable materials** Environment friendly.
- Various colours** Personalized production and patterning.
- Outstanding antibacterial property** Anti - discoloration and mildew.
- Super value** No need for additional product maintenance.
- Safe and Secure** No preservatives and harmful elements.
- Multiple product choices** Various product specifications. (more than 500 options)
- Easy to construct** Same method used as ordinary wood.

## Environmentally friendly synthetic wood made with recyclable wood and polymer plastics

Synthetic wood is eco-friendly with compositions of high-end quality materials of wood and polymer resin (PP, PE or PVC). It is damp proofing and water resistance. Through extrusion of wood and polymer resin, synthetic wood has been widely used as a substitute to original wood all over the world in the last 15 years.

Resistance and durability to heat, humidity, crash, friction, etc.

Synthetic wood is semi-permanent material which features eco-friendly but also non-deformation, non-discoloring. It is a perfect building material for floor and wall panels.

### WPC Manufacturing Process



### WPC Deck Work Flow



### USC Inc. Test Report



1. A preservative tree Test 2. Bangkirai Test 3-4.WPC Physical property Test 5.WPC(Pillar) Test 6-7.WPC(Fence) Test 8.Heavy metal leaching Test

### USC Inc. Certificate



1.ISO9001 2.Certificate of patent (Eco-friendly synthetic wood with excellent durability and slipper resistance.) 3.Factory registration card 4.Certificate of Small and Medium Enterprise 5.Certificate of Venture Business 6.Certificate of excellent technology company 7.Construction industry registration card (metal window) 8.Main-Biz confirmation 9.Direct production confirmation certificate.

# Deck

## Wood plastic composite flooring

As an eco-friendly alternative product, WPC is suitable for landscape construction and ground laying under harsh conditions.

It has replaced original wood attributing to its anti-slip, strong resistance to wearing and salt corrosion,

It is suitable for flooring of seaside, pedestrian, hiking and walking road and general landscape walking road surface.

It is also widely used as decorations for plaza and residential buildings.



- Solid clip type
- Solid screws type
- Hollow clip type
- Co-extrusion Solid clip type
- Co-extrusion Solid screws type
- Co-extrusion Hollow clip type
- Accessories



## Solid clip type

※ It can be customized in various colors.



## Solid screws type

# Deck



## Hollow clip type

**UDK 25-150**

150 x 25T x 2400(3000)mm



UDK25-150R      UDK25-150D

**Custom order**



UDK30-140R  
140 x 30T x 2400(3000)mm



UDK21-140D      UDK21-140DA  
140 x 21T x 2400(3000)mm      140 x 21T x 2400(3000)mm

## Co-extrusion

**Co-extrusion Solid clip type**

140 x 23T x 2400mm



UDDK23-140LD

**Co-extrusion Solid screws type**

115 x 9T x 2400mm




UDSD9-115L



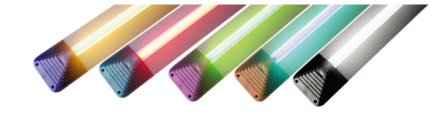
UDSD9-115D

## Accessories

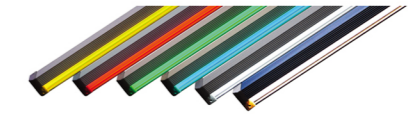
# Deck



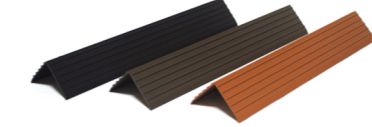
**LiFi 80N**  
LiFi T type Edge Banding  
(antistatic non-slip bar)  
80 x 2



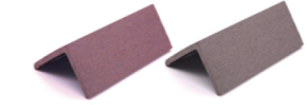
**LiFi 80NL**  
LiFi LED Road bar for floor  
(antistatic non-slip LED molding)  
80 x 25



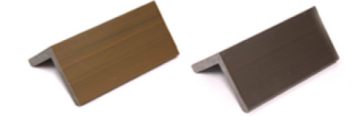
**LiFi 50NL**  
LiFi LED Non-slip bar for stairs  
(antistatic non-slip LED molding)  
50 x 60




**UDAM-40AL-B/D/R**  
Aluminium T type Edge Banding  
Black/Coffe/Red  
40 x 40 x 3100




**UDAM-WPC-R/D**  
WPC T type Edge Banding  
Red/Coffe  
50 x 50 (40)




**UDAM50-WPC-L/D**  
Co-extrusion T type Edge Banding  
Light brown/Dark brown  
50 x 50




**UDAC-A/A(B)**  
Steel clip  
Silver/Black




**UDAC-T**  
Steel clip-T type  
Silver




**UDAC-PE-L**  
PE clip




**UDAC-S/S(B)**  
Start clip  
Silver/Black




**EVA Form**  
140 / 150




**UDAU25-40**  
Underfloor  
(Custom order)




**Screws**  
Silver  
8 x 16 / 8 x 25 / 8 x 38



**Screws**  
Balck  
8 x 25



**Screw Pile**  
650 / 800 / 1000 / 1200  
1600 / 1800 / 2000



**Foundation stone**  
200 x 200  
300 x 300

# Cladding

## Exterior wall panels

WPC can retain the texture of original wood and can perfectly function as antibacterial, anti-corrosion, anti-bacterial sealing materials for buildings. USC synthetic wood products do not require additional preservative and colouring but can maintain a beautiful appearance for a long time. Cuttings can be tailored to visual enjoyment. The wooden appearance interprets the best of the architectural space.

- Wall Panels
- Co-Extruded Wall Panels
- Accessories



# Cladding

Exterior wall panels

## Wall Panels

### USK 14-148

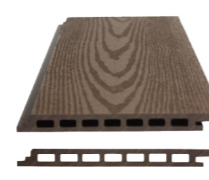
148 x 14T x 2400mm



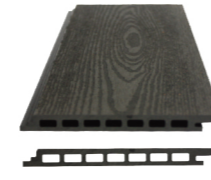
USK14-148R



USK14-148T



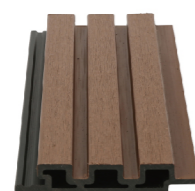
USK14-148D



USK14-148B

### USDBK25-146

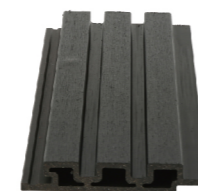
146 x 25T x 2800mm



USDBK25-146IP



USDBK25-146SB

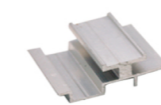


USDBK25-146BK

# Cladding

Exterior wall panels

## Accessories



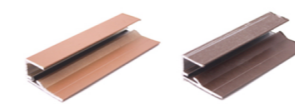
USAC-ASA  
AL clip



USAC-ASS  
Sten clip



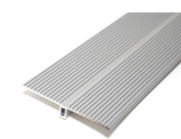
UDAM-PO  
Cladding EVA form



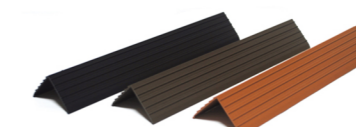
UDAM-AL1  
Connect Edge Banding  
(Red/Coffe/Black)  
26 x 48



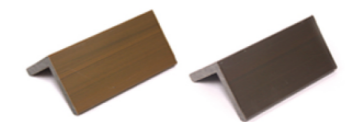
UDAM-AL2  
External Edge Banding  
(Red/Coffe/Black)



LiFi 80N  
LiFi T type Edge Banding  
(antistatic non-slip bar)  
80 x 2



UDAM-40AL-B/D/R  
Aluminium T type Edge Banding  
(Black/Coffe/Red)  
40 x 40 x 3100



UDAM50-WPC-L/D  
Co-extrusion T Type Edge Banding  
(Light Brown/Dark Brown)  
50 x 50



# Fence

## Fence / Railing

The synthetic wood fence is made of hollow extruded, foamed polyethylene material.

Although the synthetic wood fence is more expensive than the wood fence, it does not require additional painting and scratching processes. It is very popular with consumers. In particular, the added wood flour of synthetic wood enhances thermal insulation characteristics. It is more wear-resistant than original wood. Synthetic timber fencing is a customized product.

### Fence / Railing

Column

Vertical Bar

Crossbar

Movable Connection Bracket

Fixed Connection Bracket

Crossbar Square

Railing

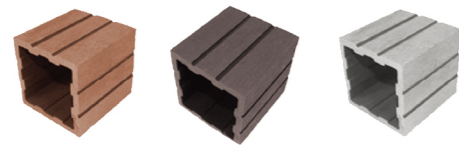


# Fence

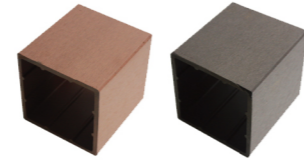
Fence / Railing

## Post / Rail / Tube

### Post



UHP 100-R UHP 100-D UHP 100-WG  
100 x 100 x 2400mm

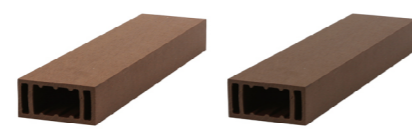


UHP 120-R UHP 120-D  
120 x 120 x 2400mm

### Rail



UHW 96-45R UHW 96-45D UHW 96-45WG  
96 x 45 x 3000mm



UHW 105-50R UHW 105-50D  
105 x 50 x 3000mm

### Tube



UHH 51-51R  
51 x 51 x 3000mm



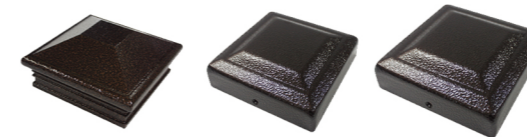
UHH 51-51D  
51 x 51 x 3000mm

# Fence

Fence / Railing

## Cap / Connection Bracket / Tube connector

### Top Cap



UHAT-D100 UHAT-T100 UHAT-T120  
100 x 100 100 x 100 120 x 120

### Bottom Cap



UHAU-D100 UHAU-T100 UHAU-T120  
100 x 100 (Separation type) 100 x 100 (Integrated type) 120 x 120 (Separation type)

### Fixed Bracket



UHAC-96N UHAC-75N UHAC-24N  
96 x 45 75 x 45 24φ (Rope-type)

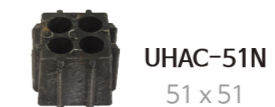
### Movable Bracket

Up and Down, Left and Right



UHAC-D96UDHL UHAC-T96UDHL UHAC-T90UDHL UHAC-T75UDHL  
96 x 45 96 x 45 90 x 40 75 x 45

### Tube connector



UHAC-51N  
51 x 51



UHAC-51NA  
51 x 51

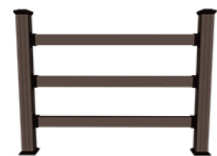
# Fence

Fence / Railing

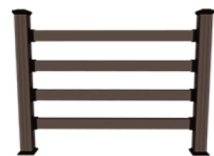
## Railing



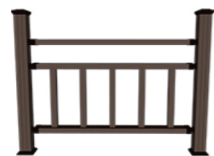
### Railing Form



**UH-03**  
Horizontal 3 lines



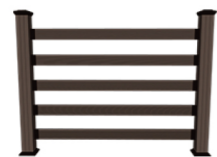
**UH-04**  
Horizontal 4 lines



**UH-03-05**  
Horizontal 3 lines  
Vertical 5 lines



**UH-02-05**  
Horizontal 2 lines  
Vertical 5 lines



**UH-05**  
Horizontal 5 lines



**UH-02-08**  
Horizontal 2 lines  
Vertical 8 lines



**UH-03-07**  
Horizontal 3 lines  
Vertical 7 lines



**UH-03-R**  
Horizontal 3 lines rope type



# Louver

Louver

Synthetic wood louver is a product that combines the advantages of wood and plastic. Compared with wood, it has better resistance and durability in heat resistance, humidity, impact strength, friction, etc. It is a 100% recyclable and environmentally friendly without any negative effects on human health.



## Louver



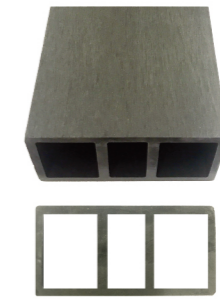
UL50-50R/D  
50 x 50



UL75-45R/D  
75 x 45



UL96-45R/D  
96 x 45



UL100-50R/D  
100 x 50  
100 x 30 / 200 x 60  
\*Custom production



UL160-60R/D  
160 x 60  
\*Custom production

## Accessories



Brackets (Sten/AL)  
96 x 45 / 50 x 50



EVA Stopper  
96 x 45 / 50 x 50



□ type EVA Plug for connection  
96 x 45 / 50 x 50

# Easy Deck

WPC DIY splicing board

Compared with natural wood splicing panels, WPC splicing panels are more affordable and easier to install. Anyone can install them without any professional assistance. They are non-deformation, non-discoloring semi-permanent products so can be used in various places such as balconies, swimming pools and so on.



## Synthetic splice board



300 x 300 x 20T R/D  
50 x 50



140 x 600 x 35T  
75 x 45



## Custom production



# Wood

## Natural wood

Natural wood board is a wood board that excludes artificial use of chemicals. It is excellent in strength and can present the natural texture and colour of the wood itself. The wood surface is not easy to rot and has strong durability and resistance against moisture, fire, mildew and other environmental hazards. It barely shrinks, bends or cracks. Therefore, nature wood is not only used for decks, but also for various moulding.



**Bangkirai**  
90 x 19T / 140 x 24T



**Merbau**  
90 x 19T / 90 x 21T / 120 x 30T



**Keruing**  
90 x 19T



**Massaranduba**  
90 x 19T / 100 x 21T



**Kempas**  
90 x 19T



**Kumea**  
90 x 19T / 90 x 21T

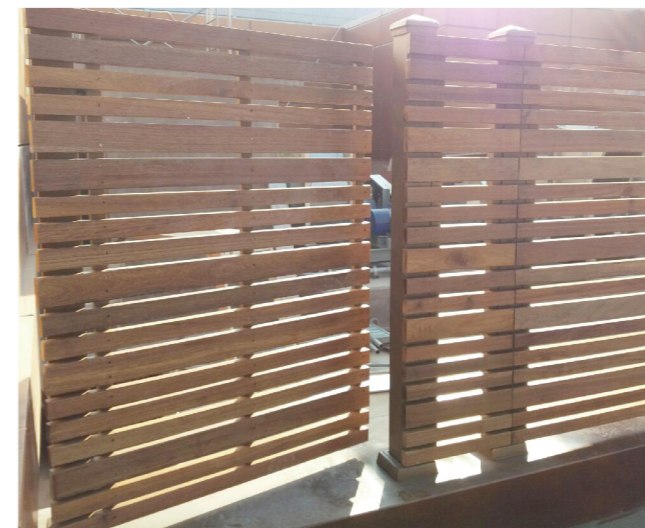


**Momala**  
90 x 19T / 100 x 30T



**Ipe**  
90 x 19T / 90 x 21T / 100 x 20T

※ Ask us other than the above products and standard



# Wood

## Preservative wood

Preservative wood is wood processed by wood decay fungi for outdoor use or in places with high humidity. It is mainly produced by infusing the wood with chemicals that can resist against rot and pests and other hazards. This preservative treatment process increases the life span without changing the basic properties of the wood.

Treated preservative wood can increase the service life by 5-10 times, and is widely used in railway sleepers, telephone poles, marine piles, planks, fences and other outdoor wood. Regular spraying of functional oil (1-2 years) can maintain life for a long time.



95 x 15T x 3600



95 x 21T x 3600



120 x 20T x 3600




120 x 21T x 3600



120 x 27T x 3600



140 x 25T x 3600

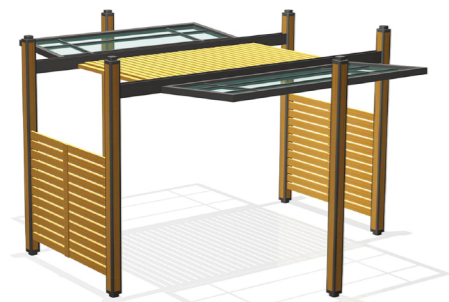
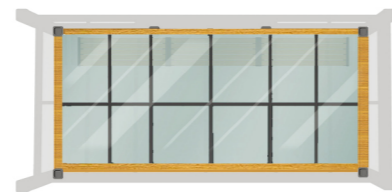
Model No.	Picture	Specification	etc
Preserved wood		95 x 15T / 95 x 21T 120 x 21T / 120 x 27T / 140 x 25T	
Preserved square lumber		38 x 38T / 89 x 38T / 140 x 38T 외	
		90 x 90T / 120 x 120T / 140 x 140T	
		120 x 120T / 140 x 140T	Clover shape
		Custom production	Clover shape

# Pergola

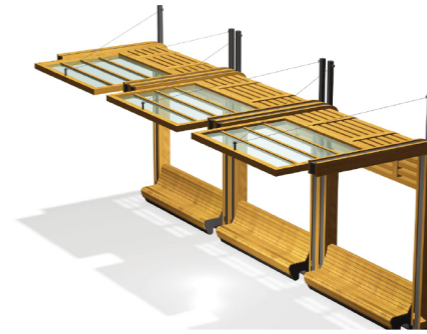
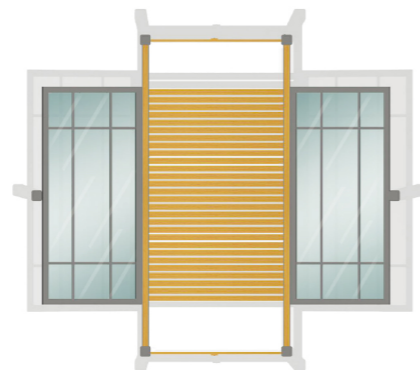
Landscape facilities made by USC's screw pile present a beautiful designs that is close to nature and can maximize customer satisfaction. They create a vibe that can soothe a soul. They perfectly human beings with their living environment.



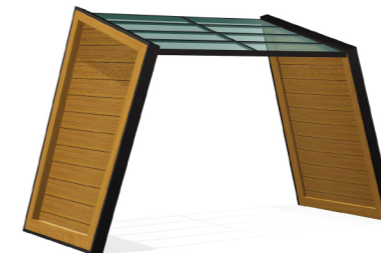
**ABC-PW-1** 3000 X 2000 X 2400  
AL-WOOD, HARD-WOOD, STL-PIPE



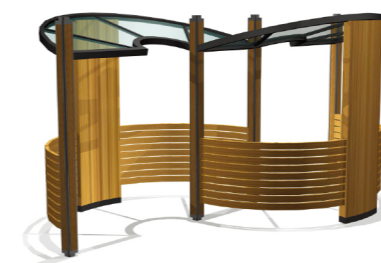
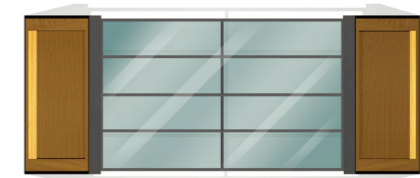
**ABC-PW-2** 3900 X 3400 X 2400  
AL-WOOD, HARD-WOOD, STL-PIPE, POLYCARBONATE



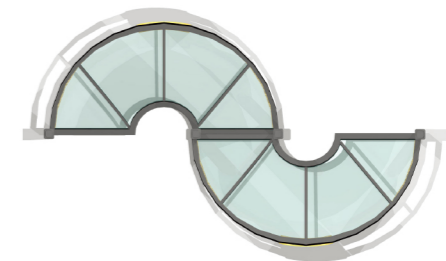
**ABC-PW-10** 3000 X 2000 X 2400  
AL-WOOD, HARD-WOOD, STL-PIPE



**ABC-PW-12** 4000 X 3000 X 2700  
HARD-WOOD, STL-PIPE, POLYCARBONATE



**ABC-PW-13** 6000 X 5000 X 2700  
AL-WOOD, HARD-WOOD, STL-PIPE, POLYCARBONATE



**ABP-001** 4000 X 4000 X 3300  
AL-WOOD, HARD-WOOD, STL-PIPE, POLYCARBONATE



**ABC-PW-16** 5600 X 5600 X 4408  
AL-WOOD, HARD-WOOD, STL-PIPE, POLYCARBONATE



**ABC-PW-29** 5543 X 5543 X 4190



# Coco Yaja Mat

Coconut mat is an environmentally friendly mat made of fibers extracted from coconut fruit. Good anti-slip effect, creating a safe walking environment, Improves landscape row and has excellent drainage. After a certain period of time, it will naturally corrode, and it does not need to be dismantled and discarded, and anyone can easily install it.



Yaja mat Product size	Width	Length	Thickness	Weight
	0.6m	10m	35mm	36~38kg
	0.8m	10m	35mm	48~52kg
	1.0m	10m	35mm	60~63kg
	1.2m	10m	35mm	72~76kg
	1.5m	10m	35mm	90~95kg
	2.0m	10m	35mm	120~125kg

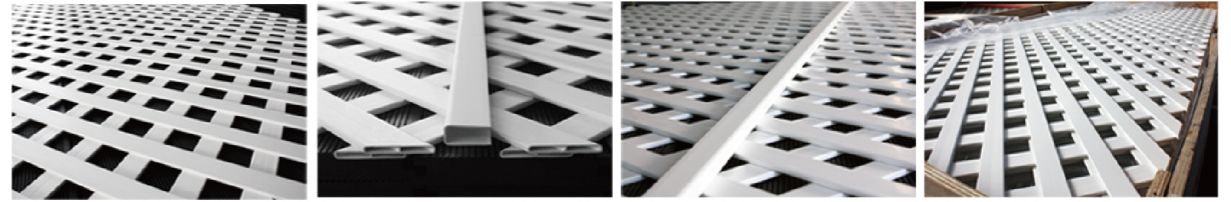
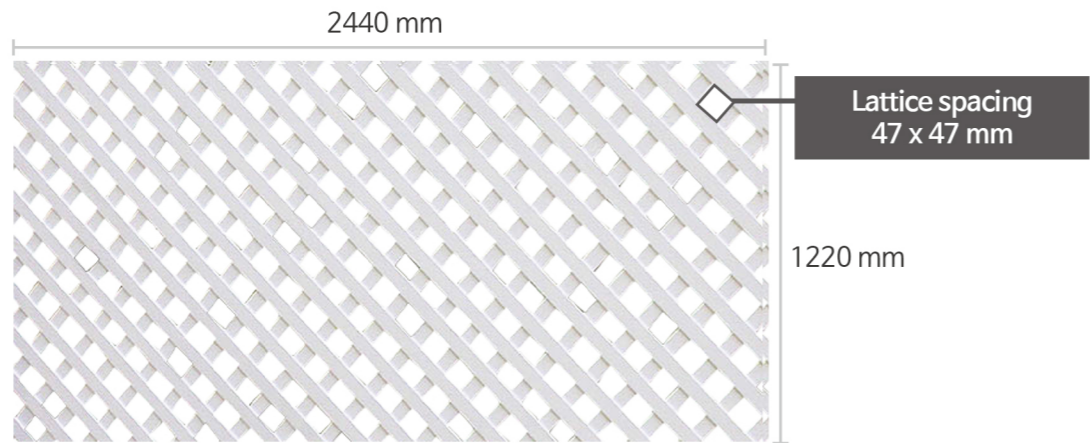


### - Production process -



# PVC Premium Lattice

PVC fence Lattice-shaped grid made of PVC plastic.  
 The thickness of the PVC high-grade mesh is 13T, which is beautiful, simple and strong.  
 In order to improve the service life of the grid made of wood, it needs to be used for 2-3 years. For the cycle, it is managed with oily material, but the PVC grid is made of plastic material, which requires no maintenance and is easy to manage. For outdoor landscape or outdoor shading, clapboard and other purposes.



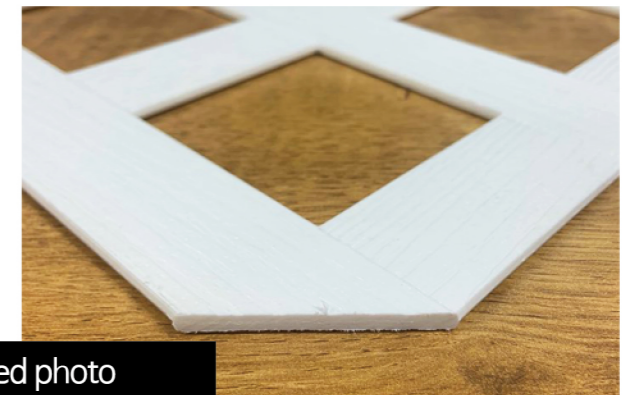
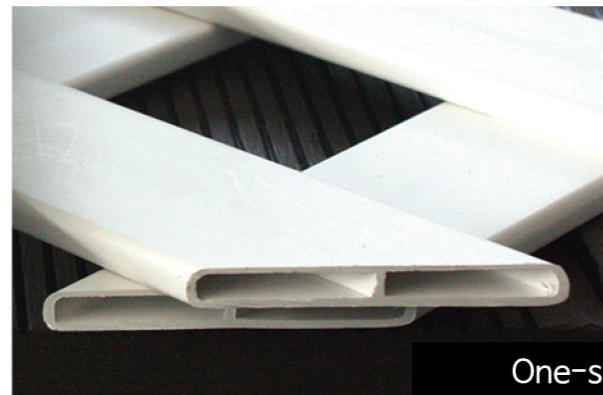
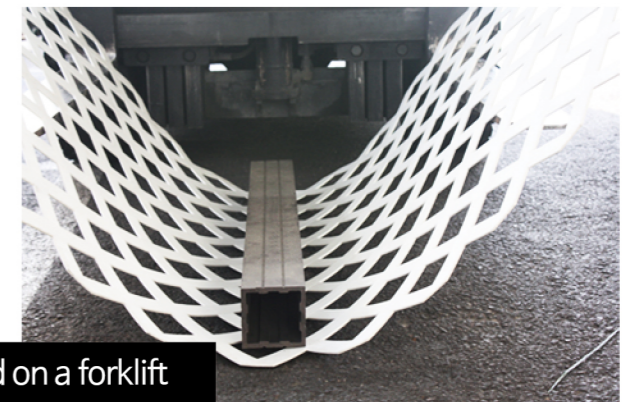
13T	Comparison	4T/6T
More three-dimensional sense	Stereoscopic	Less three-dimensional sense
Strong strength	Strength	Weaker strength
Low bending	Bending	Higher bending

Compared with 13T and 4T,6T has more three-dimensional feeling, excellent strength products almost not bend.

13T Lattice

VS

4T/6T Lattice



# Screw Pile

USC's screw piles are used for civil engineering, planks outside the construction site, fencing and fence viewing facilities, the foundation of solar energy and other structures. The helical wing is installed on the high-strength steel pipe pile, and through the rotating motion, the helical wing of the steel pipe pile can be supported by the upper and lower ends or friction, which provides excellent stability in compression and tension.



Images	Model NO.	Size(mm) Circumference x Length x Thickness	Base
	USP-650A	Φ60 x L650 x 2T	
	USP-800A	Φ60 x L800 x 2T	
	USP-650B	Φ76 X L650 X 2T	Square plate 200 x 200 x 9T  Used for four corner pillars 100x100 120 x 120  Used for circular pillars Φ100
	USP-800B	Φ76 X L800 X 2T	
	USP-1000B	Φ76 X L1000 X 3.65T	
	USP-1200B	Φ76 X L1200 X 3.65T	
	USP-1600B	Φ76 X L1600 X 3.65T	
	USP-1800B USP-2000B	Φ76 X L1800 X 3.65T Φ76 X L2000 X 3.65T	



## Deck

**Solid clip type**


  
**UDS 20-140 RW / DW / SW / GW / WGW / BW**  
 140 x 20T x 2400(3000) mm


  
**UDS 25-150 R / D / S / G / B**      **UDS 30-150 R / D**  
 150 x 25T x 2400(3000) mm      150 x 30T x 3000 mm

**Solid screws type**


  
**UDS 20N-140 R / D**      **UDS 25N-150 R / D**  
 140 x 20T x 2400(3000) mm      150 x 25T x 2400(3000) mm


  
**UDS 13N-150 R / D / S / G**  
 150 x 13T x 3000 mm


  
**UDS 20N-90 R / D / S / G**  
 90 x 20T x 2400(3000) mm

**Hollow clip type**


  
**UDK 25-150 R / D**  
 150 x 25T x 2400(3000) mm


  
**UDK 30-140 R / (D)**      **UDK 21-140 D / (R)**      **UDK 21-140 DA / (RA)**  
 140 x 30T x 2400(3000) mm      140 x 21T x 2400(3000) mm      140 x 21T x 2400(3000) mm  
\*Custom order      \*Custom order      \*Custom order

**Co-extrusion Solid clip type**


  
**UDDK 23-140 LD**  
 140 x 23T x 2400 mm

**Co-extrusion Solid screws type**



  
**UDSD 9-115 L / D**  
 115 x 9T x 2400 mm

**Co-extrusion Hollow clip type**


  
**UDKD 23-140 L / D / G**  
 140 x 23T x 2400 mm \*Custom order


  
**UDDK 22-150 WDG**  
 150 x 22T x 2400(3000) mm \*Custom order

**Accessories**


  
 LiFi 80N (80 x 2) LiFi T type Edge Banding      UDAM-40AL (40 x 40) Aluminium  $\Gamma$  type Edge Banding      LiFi 80NL (80 x 25) LiFi LED Road bar for floor      LiFi 50NL (50 x 60) LiFi LED Non-slip bar for stairs      UDAU25-40 Underfloor Custom order

UDAC-S/S(B) Start clip Silver/Black      UDAC-A / A(B) / T Steel clip Silver/Black/Silver      UDAC-PE-L PE clip Black      EVA Form 140 / 150      Screws 실버 / 블랙 8 x 16 / 8 x 25 / 8 x 38      Foundation stone 200 x 200 650 / 800 / 1000 / 1200 300 x 300      Screw Pile 1600 / 1800 / 2000


## Cladding

**Wall Panels**


**USK 14-148 R / T / D / B**            148 x 14T x 2400 mm

 **USK 17-1500** 150 x 17T x 2400 mm \*Custom production       **USK 15-140D** 140 x 15T x 2400 mm \*Custom production

**Block Wall Panels**

**USDK 25-146 IP / SB / BK**            146 x 25 x 2800 mm

**Accessories**


  
**USAC-ASA** AL clip      **USAC-ASS** Sten clip

**LiFi 80N** T자형 몰딩 Silver 80 x 2      **UDAM-AL1** Connect Edge Banding Red/Coffe/Black 26 x 48      **UDAM-AL2** External Edge Banding Red/Coffe/Black 26 x 48      **WPC  $\Gamma$  Type** Edge Banding Red/Coffe 50 x 50(40)      **Co-extrusion  $\Gamma$  Type** Edge Banding Light Brown/Dark Brown 50 x 50

## Fence

**Post**


  
**UHP 100 R / D / WG** 100 x 100 x 2400 mm      **UHP 120 R / D** 120 x 120 x 2400 mm

**Rail**


  
**UHW 96-45 R / D / WG** 96 x 45 x 3000 mm      **UHW 75-45 R / D** 75 x 45 x 2800 mm

**Tube**


  
**UHH 51-51 R / D** 51 x 51 x 3000 mm

**Cap**


  
**UHAT D100** 100 x 100      **UHAT T100** 100 x 100      **UHAT T120** 120 x 120      **UHAU D100** 100 x 100 (Separation)      **UHAU T100** 100 x 100 (Integrated type)      **UHAU T120** 120 x 120 (Separation)

**Tube connector**


  
**UHAC 51N** 51 x 51      **UHAC 51NA** 51 x 51

**Movable Connection Bracket**  
Up and Down, Left and Right



  
**UHAC D96UDHL** 96 x 45      **UHAC T96UDHL** 96 x 45      **UHAC T90UDHL** 90 x 40      **UHAC T75UDHL** 75 x 45

**Fixed Connection Bracket**


  
**UHAC 96N** 96 x 45      **UHAC 75N** 75 x 45      **UHAC 24N** 24 $\phi$  (Rope-type)

## Louver

**Louver**


  
**UL 50-50 R / D** 50 x 50      **UL 75-45 R / D** 75 x 45 \*Custom production      **UL 96-45 R / D** 96 x 45      **UL 105-50 R / D** 100 x 50      **UL 160-60 R / D** 160 x 60 \*Custom production

**Accessories**


  
**Brackets(Sten/AL)** 96 x 45 / 50 x 50      **EVA Stopper** 96 x 45 / 50 x 50       **$\square$  type Plug for connection** 96 x 45 / 50 x 50