



山东绿森塑木复合材料有限公司
Shandong Lvsen Wood-Plastic Composite Co.,Ltd.



山东绿森塑木复合材料有限公司是于2006年12月份组建的一家国家高新技术民营企业。公司总部位于山东省临沂市沂水县，主要生产 七大类产品，包括塑木地板、DIY地板、塑木外墙装饰板、塑木护栏、塑木围栏、凉亭花架、花箱座椅，目前公司产品已出口50多个国家和地区，并享誉海内外市场。

目前公司已通过了ISO9001质量管理体系认证和CE质量管理体系认证。公司生产的塑木新材料已经顺利通过了中国国家建筑材料检测中心的检测。

绿森塑木无论是从研发到生产线，还是从销售到售后都将进一步完善，以行业标准严格要求自己，争创中国塑木行业的第一品牌。

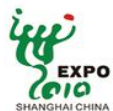
Established in December of 2006, Shandong Lvsen Wood-Plastic Composite Co., Ltd is a new National high-tech private enterprise. Our company is located in beautiful natural Mountain Yimeng areas of Shandong Province, and our products include seven series: WPC Decking, DIY Decking, WPC Wall Panel, WPC Railing, WPC Fencing and Door, Pavilion and Pergola, Flower-case and Leisure-chair. Our products are sold to all over the world, and they are popular in more than 50 countries and regions.

At present, our annual production capacity is more than 10000 Tons.

Non-formaldehyde, non-radiation, non-pollution, and recycling, this product's applications can save a large amount of natural lumber. The Plastic wood composite products because of the natural fiber ingredients, has the stronger resistance to UV (ultraviolet) performance and better heat bilges cold shrink performance and, like wood is easily processing. Now, our company has owned the certification of ISO9001 and CE, and the test certification of the China national building materials testing center of detection.



国家级高新技术企业



2010年上海世博会

2010年上海世博会材料供应商



2014青岛世界园艺博览会材料供应商



2014年索契冬奥会材料供应商

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CO-EXTRUSION DECKING—S SERIES
共挤地板-S系列

白橡木
white oak



玉石
jade



茶褐色
dark umber



桃木
dark peach



灰白
off white



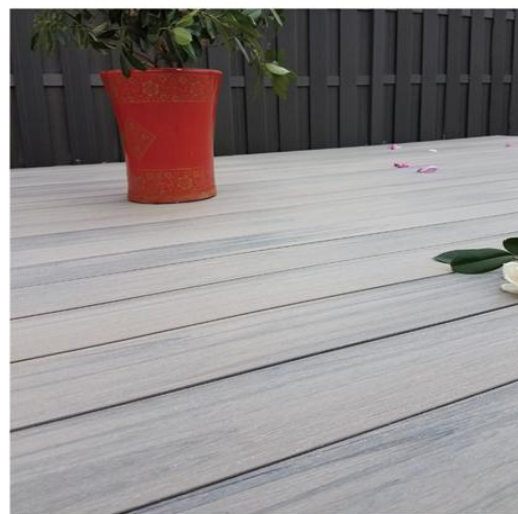
浅灰
light grey



木炭
charcoal black



颜色仅供参考，以实际产品为准。
colors shown above are only for reference.



Shield

With pure hardness plastic surface after lightly sanded finish makes it look very comfortable and soft.

After installation, you really feel like you are in the natural wood environment.

Core

The interior core is made from environmentally friendly material, such as recycled milk jugs, plastic bottles, and wood fiber.

This highly dense core allows for greater strength and durability.

With both part comes in wonderful co-extruded deck, it's not easy to scratch and much more stability than traditional deck board.



140mm x 22mm



140mm x 22mm



140mm x 22mm



140mm x 22mm

抗污渍

保护层有超强抗污渍性能，超低维护。不用担心红酒、咖啡、酱油、菜汁等污渍，简单的拭擦就能让您的板材亮丽如新，污渍不会渗入板材芯层。

防霉变、腐烂、开裂、虫蛀

保护层给板材提供绝佳保护，真菌和霉菌无法生长，不开裂，不腐烂，板材使用寿命更长。

抗褪色

保护层工艺独特，相比传统塑木，颜色更加持久。

无需油漆

板材颜色是制作工艺配方中的一部分，后期无需再油漆、磨砂或上油，省心省力，绿色环保。

CO-EXTRUSION DECKING—L SERIES
共挤地板—L系列



金属灰
steel grey



青石
blue stone



雾灰
misty grey



亚麻
flax



胡桃木
walnut



可乐棕
coke brown



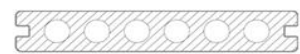
颜色仅供参考，以实际产品为准。
colors shown above are only for reference.

With advanced techniques and much time of research, the L series comes in six different wonderful colors for you to choose and also natural wood grain surface.



共挤地板运用全新一代塑木生产技术在传统塑木基础上使其表面包覆一层工程塑料。共挤地板表面木纹不易刮擦，更接近自然木质纹理；不易褪色，色彩更持久；使用寿命更长。

Outperforms all traditional products.
Using shell technology that resists weather and wearing.
This brand new outdoor deck maintains its nature-inspired color and authentic grain pattern for years to come. Whether it's a streaked tropical look you are after or the deep wood grain of an earthy classic, the one you choose is the color you all enjoy for decades.
Engineered with unrivaled fade, stain, scratch and mold resistance.
Designed in a range of rich colors with a natural-looking grain pattern.
With super hardness shell, there will be no scratch in daily life.



140mm x 22mm



140mm x 22mm



140mm x 22mm



140mm x 22mm



A side



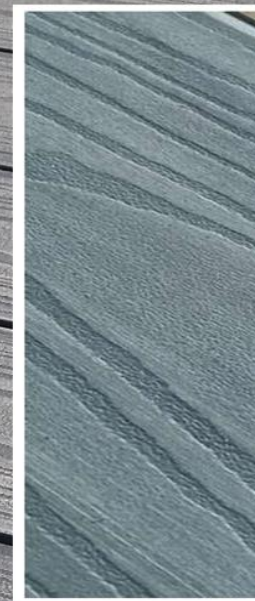
B side



- 1.Shell: pure super hardness plastic.
- 2.Core: 36%HDPE, 60%wood powder, 4% chemical additives.
3. Scratch resistance.

Incredible new plastic material clip that is even stronger than metal one.

EMBOSSMENT DECKING F SERIES
浮雕地板-F系列



浅柚木
light teak



深柚木
dark teak



红棕
dark brown



浅灰
light grey



黑色
black



colors shown above are only for reference.



In order to make a better life environment and make more and more people satisfied, we create three kinds of surfaces. picking any one of them makes your garden and yard better.



☐ Deep and light wood grain surface treatment seems like real wood.



☐ Clear groove and grain face after lightly sanding finish, natural wood comes in mind.

浮雕款户外地板除了拥有传统塑木地板的优点外，运用特殊生产工艺而成的产品表面更是其最大特点，纹路更接近于原木，更有质感，结实耐磨，仿佛置身大自然中。

EMBOSSMENT SERIES

What is embossment series?

As we all known, traditional wpc flooring are finished after two steps processing. If you need wood grain, we take the third step. We just need one step to produce embossment series.

Why do we choose embossment series?

We take a special technology to make wood grain so that it can last a long time. You don't have to worry about that the wood grain abrades.



可选尺寸 Size Available

- ✔ 130mm x18mm
- ✔ 140mm x21mm
- ✔ 140mm x23mm
- ✔ 150mm x25mm
- ✔ 140mm x35mm
- ✔ 200mm x20mm

WPC-ALUMINIUM FENCE 插接式围栏

插接式围栏由塑木围栏板，
铝合金配件拼接而成，安装简单
快速，铝合金立柱更稳定，更耐用。

wpc-aluminium fence is a little
different from wpc fence.
we use aluminium post and rail
instead of wpc ones. it makes
the fence much more strong.



铝合金上下横梁
aluminium rail



氧化铝合金立柱
aluminium post



喷涂铝合金立柱
sprayed aluminium post



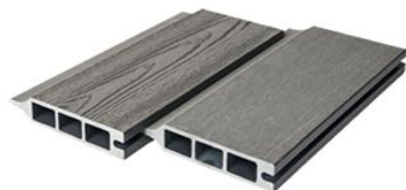
喷涂铝合金上下横梁
sprayed aluminium rail



立柱塑料底座
post plastic base



透光板
plastic translucent board



塑木围栏板
wpc fencing board



塑木围栏板
wpc fencing board



除了传统塑木围栏板，还有最新科技生产制造的共挤围栏板
可供选择。颜色更持久，表面纹理更自然。

All new design co-extrusion fencing board is available.
color is more durable and wood grain surface is not
easy to be scratched.

WPC FENCE

全塑木围栏



Advantages of WPC Fencing

1. Tough weather resistance-absolutely
2. Beautiful design on both sides and for the neighboring
3. Dyed-no painting or finishing process
4. Resistance to insects and fungi
5. Easy care-clean with just water
6. Environmental friendly
7. 100% recyclable
8. Easy to be installed



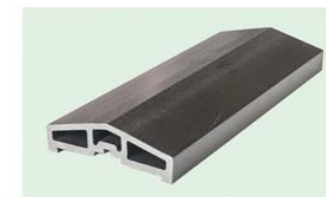
This brand new wpc fencing series is quite popular now and almost all parts are made of wpc material. If you don't want to use wpc post and toppofile, we also have aluminium ones.

Top Profile



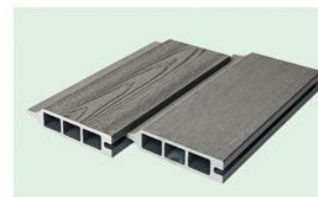
NO. :LSQP-14
Size: 120*40mm

塑木封顶



NO. :LSQP-13
Size: 120*50mm

Fencing Board



NO. :LSQP-04
Size: 150*25mm

塑木围栏板



NO. :LSQP-15
Size: 150*24mm

Accessory



Top profile
plastic cap
封顶堵头

塑料配件



Plastic connector
立柱封顶连接件

Post 塑木立柱



NO. :LSQP-12
Size: 100*100mm



NO. :LSQP-11
Size: 100*100mm



NO. :LSQP-10
Size: 100*100mm





Spray Colouration Aluminium alloy-wpc Fence
Size: 180*180cm



Arched Spray Colouration Aluminium alloy-wpc Fence
Size: 180*180cm



Spray Colouration Aluminium alloy-wpc Door
Size: 180*90cm



WPC FENCE
一体式围栏

Fencing Board & Post



wpc fencing board
Size: 145*9.5mm



wpc fencing board
Size: 150*8mm



co-extrusion board
Size: 150*7mm



wpc fencing board
Size: 115*10mm



wpc post
Size: 100*100mm



Aluminium alloy post
Size: 100*100mm
70*70mm

Accessory



Plastic Post Cap



Plastic Post Cap

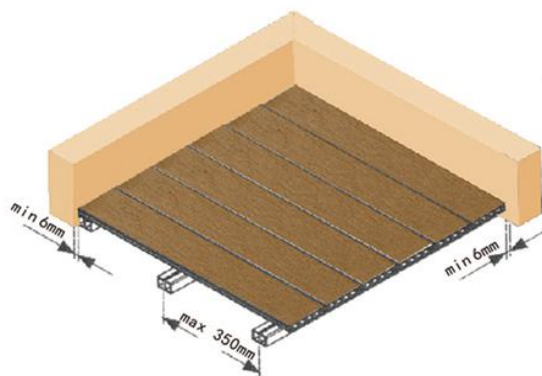
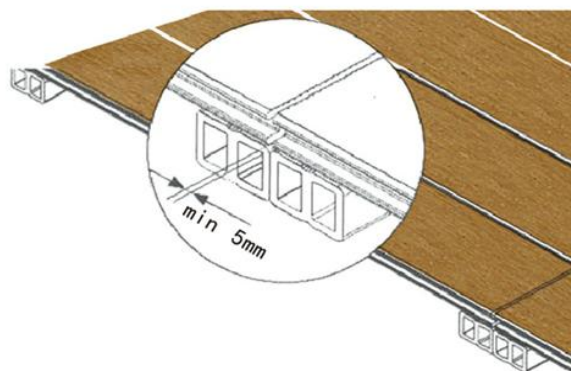
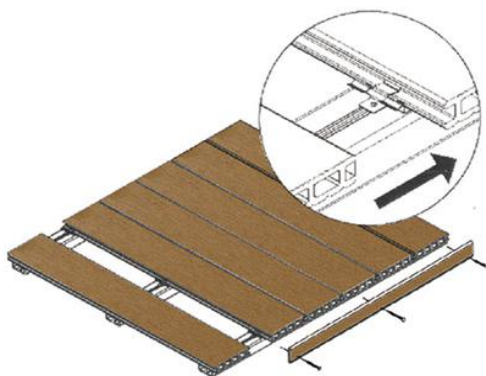


aluminium rail clip



Metal base

Remark: Due to the photography and printing, the actual color varies from the picture, Please refer to the actual product.



DECK INSTALLATION

Tools

- 1 we can use carpentry tools such as alloy blades and drills for drilling, cutting, edging etc..
- 2 When drilling a larger hole or a deeper hole, you should pull out the drill a little bit from time to time for bringing out the chips.

INSTALLATION PRECAUTIONS

- 1 it should be used the matching stainless steel offered by us. Drilling a hole before screwing, which diameter of the hole should be less than 3/4 screws, then can be fixed to prevent profiles for fracturing. All places needed tighten screws must be predrilled.
- 2 the decking size is generally less than 2400mm. the gap end to end should be taken in at least 5mm, while the decks and a wall must be maintained more than 10mm.
- 3 when installed, decks on the ground, they should be fixed on the joists through matching screw provided by us. It cannot be drilled to fix directly on the surface of ground and must be left 6mm gap between two decks.
- 4 To hammer at the wood plastic product, it should be used batten to protect.

GROUND PREPARATION

The decking must be built on the flat base, using posts, cement boards, rubber pads as supporters or concrete ground and mixed ground with compact gravels. In the meanwhile, the ground must keep a certain inclination to facilitate drainage.

JOISTS INSTALLATION

- 1 during the joists installation, at first, use the electric drill bore a hole on the concreted ground or under-frames, and then put expansive plastic covered screws in the holes and drill holes on the joists which diameter should be less than 3/4screw. Use 7mm drills to drive into the pre-drills 3mm depth, making sure that screws can be driven into the joists. The distance between two nails in the joist should be in 800-1000mm.
- 2 the distance between two joists is 300mm.
- 3 joists are not structural components: they can only be laid down on the flat ground. They can not be fastened to the ground or to each other. A 10mm gap must be left between the joist end and a wall. When butting two joists, a gap of 10mm in length must be left.

DECKS INSTALLATION

- 1 fix start clips on the beginning of joist which should be in straight alignment. The distance between joists and a wall is 10mm.
- 2 the distance of the board end and the nearest joist is max 50mm.
- 3 after the first board fixed, put hidden clips into the other side of the first board and twist each screws loosely in turn, then screw tightly after next board inserted by clips. Repeat the above steps to install the other boards in turn.
- 4 according to the size of boards and joists, use matching wpc edge profile to seal.

工程地点：圆明园，北京 时间：2016.06



浅柚木色
Light Teak



深柚木色
Dark Teak



国旗红
Red



巧克力色
Chocolate



咖啡色
Coffee



米白色
White



灰色
Gray



黑色
Black

colors shown above are only for reference.

TRADITIONAL WPC DECKING&CLIP 一代塑木地板及配件

空心地板 Hollow Deck



编码 (code): LSHD-04
规格 (size): 146*21mm

编码 (code): LSHD-03
规格 (size): 135*25mm

编码 (code): LSHD-11
规格 (size): 150*25mm

编码 (code): LSHD-08
规格 (size): 150*25mm

编码 (code): LSHD-05
规格 (size): 146*31mm

编码 (code): LSHD-18
规格 (size): 140*40mm

实心地板 Solid Deck



编码 (code): LSSD-12
规格 (size): 130*18mm

编码 (code): LSSD-02
规格 (size): 140*21mm

编码 (code): LSSD-16
规格 (size): 140*22mm

编码 (code): LSSD-03
规格 (size): 150*25mm

编码 (code): LSSD-13
规格 (size): 140*35mm

编码 (code): LSSD-15
规格 (size): 140*40mm

龙骨&配件 Joist&Accessories



编码 (code): LSJ-04
规格 (size): 50*30mm

编码 (code): LSJ-01
规格 (size): 60*40mm

编码 (code): LSJ-02
规格 (size): 38*38mm

地板塑料卡扣
plastic clip

不锈钢卡扣
steel clip

L型封边
edging board

塑木封边
decking edging board

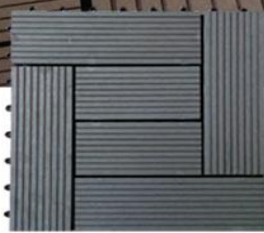
卡扣螺丝
screw



WPC DIY TILE
DIY小地板



LSQD-01



LSQD-02



LSQD-03



LSQD-04

☐ 可选用普通边板或共挤边板制作

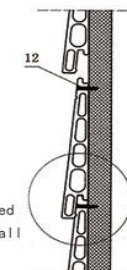
☐ both traditional wpc board and co-extrusion board can be used to make it.



此安装方式适用于LSWP-LSWO-08, 龙骨可使用塑木或镀锌方管。安装简便快捷

This picture shows how to install LSWP-05 and LSWP-08.

Either wpc joist or galvanized post can be used to install wall panel easily.



This picture shows how to install LSWP-03, LSWP-06 and LSWP-07.

Either wpc joist or galvanized post can be used to install wall panel easily.

此安装方式适用于LSWP-03、LSWP-06和LSWP-07, 龙骨可使用塑木龙骨或镀锌方管。安装简便快捷。



编码 (code): LSWP-07
规格 (size): 125*20mm



编码 (code): LSWP-03
规格 (size): 218*31mm



编码 (code): LSWP-08
规格 (size): 160*16mm

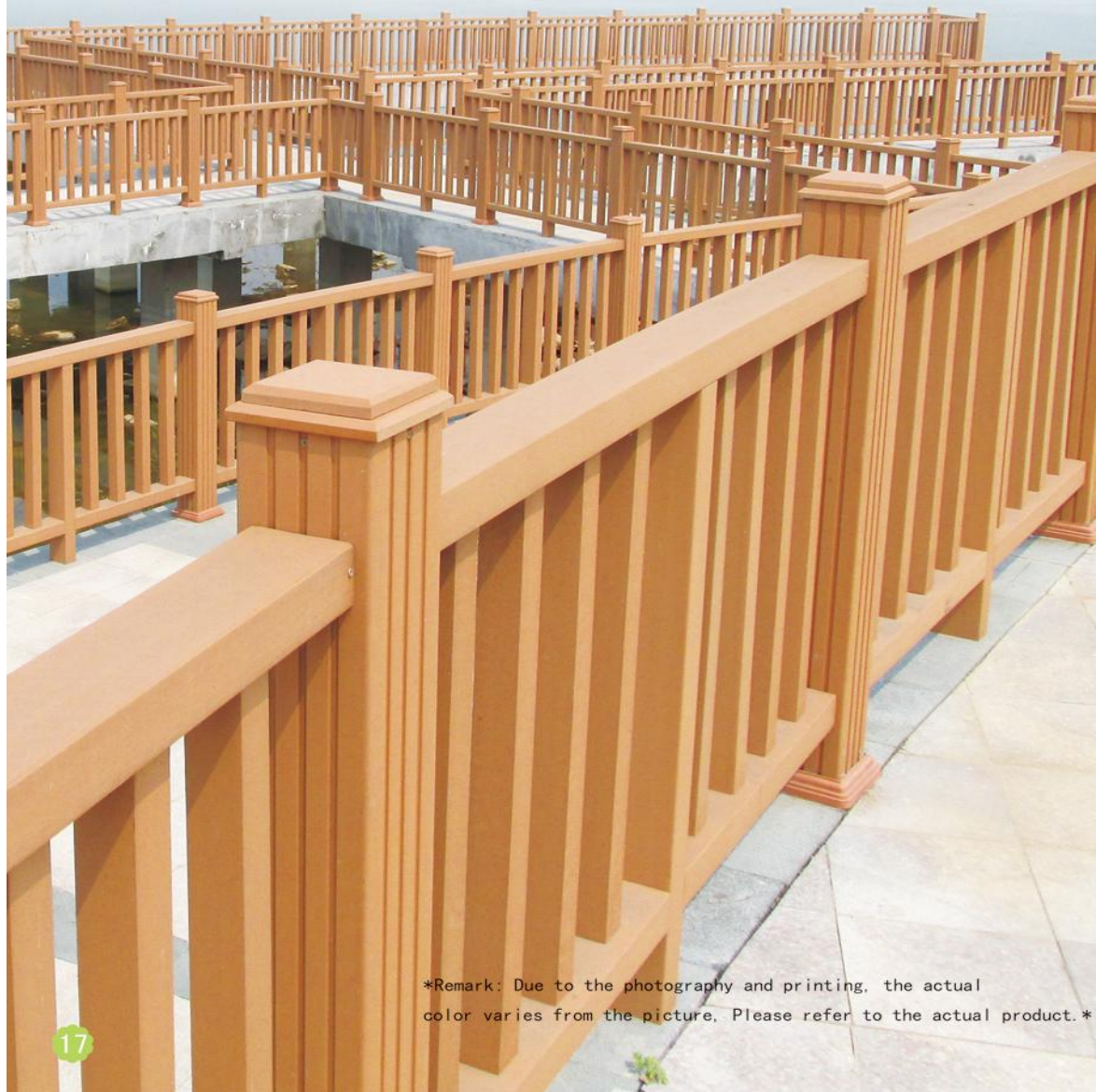


编码 (code): LSWP-06
规格 (size): 140*20mm



不锈钢卡扣
stainless steel

WPC GUARDRAIL 塑木护栏



Remark: Due to the photography and printing, the actual color varies from the picture. Please refer to the actual product.



编码 (code): LSR-06
规格 (size): 100*100mm



编码 (code): LSJ-10
规格 (size): 75*45mm



编码 (code): LSR-23
规格 (size): 38*38mm



编码 (code): LSR-03
规格 (size): 128*128mm



编码 (code): LSR-14
规格 (size): 96*60mm



编码 (code): LSR-01
规格 (size): 50*50mm



立柱塑木盖帽



方管塑料连接件



横梁金属连接件



立柱塑料柱裙



立柱塑料盖帽



立柱金属底座

PAVILION 凉亭 花架



编码: LSR-10
规格: 200*200mm



编码: LSR-09
规格: 200*80mm



编码: LSWP-03
规格: 218*31



编码: LSR-07
规格: 100*36.5mm



编码: LSR-06
规格: 100*100mm



梯型, S型横梁两端处理



丝杠



金属拐角



金属拐角



立柱金属底座



WPC CHAIR 座椅



产品编号: LSCH-03
尺寸: 1.45*0.4*0.45m



产品编号: LSCH-04
尺寸: 1.45*0.4*0.45m



产品编号: LSC-01
截面尺寸: 100*35mm



产品编号: LSC-02
截面尺寸: 57*32mm

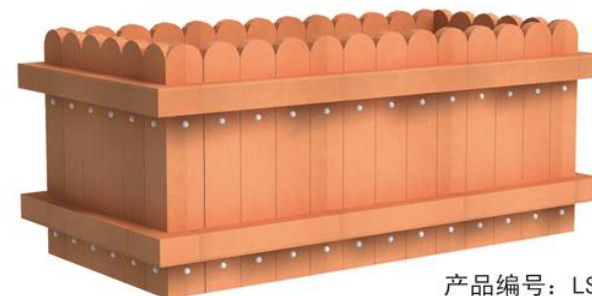


产品编号: LSC-01
截面尺寸: 100*35mm



产品编号: LSC-02
截面尺寸: 57*32mm

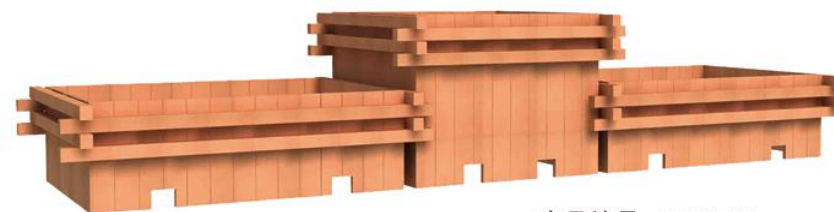
WPC PLANT CONTAINER 花箱



产品编号: LSFB-01



产品编号: LSFB-02



产品编号: LSFB-03



经过长时间研发改进，绿森卫迪塑木现拥有多种表面处理方式，可根据不同使用场景，不同喜好，选择最适合您的那一种。

Based on continued research and adjustment, LVSEN VDI WPC has many different kinds of surface treatment for you to choose. Find your favorite decking and make your life more comfortable.



T1



T2



T3



T4



F1



F2



F3



F4



S1



S2



S3



S4



L1



L2

CERTIFICATES & TEST 证书与检测

绿森塑木专注于产品的质量，讲求严格、严肃、实效的管理理念，严控各市场标准要求生产，不仅是对客户的负责，更是绿森企业的提升。辅以强势推广，更能让您切实体会绿森塑木的品质。

WPC products introduction: The wood-plastic composite decking we produced is made of 30%-50% HDPE and 50% wood fiber. The fiber includes wood powder, pigment, anti-UV agents, preservatives, etc.

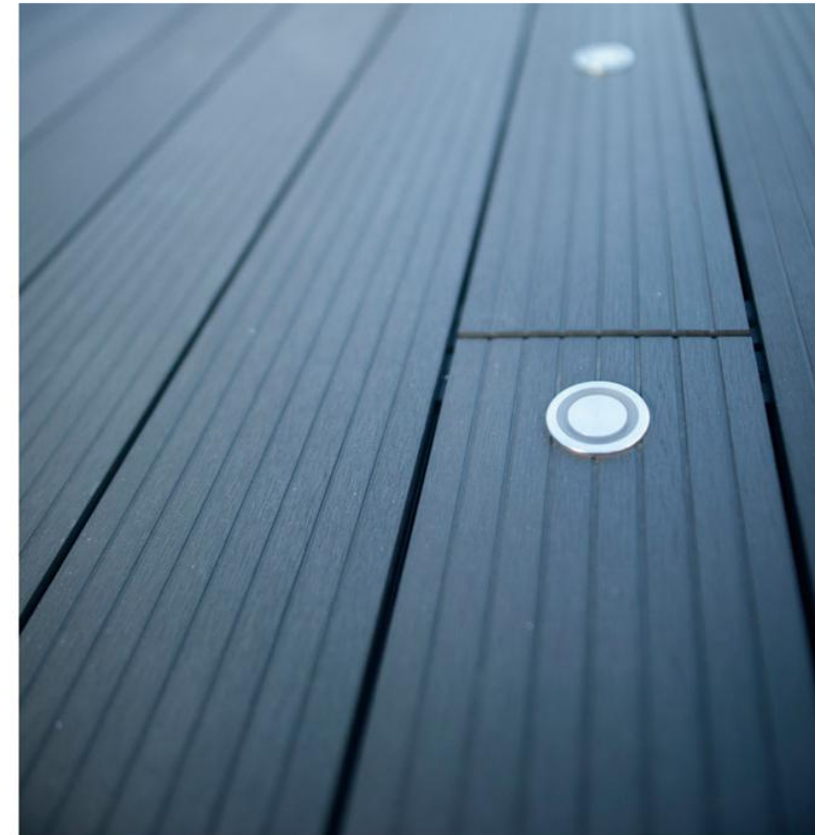
Main features of Wood-plastic Composite:

1. High density, durable, clean, beautiful, can be used for about 25-30 years and 100% recyclable.
2. Resistant to corrosion, resistant to moisture and termites, mass and splinter-free, outdoor use.
3. The second time has good processing, sawing, nailing, planning, requires on painting. Its shape and size can be adjusted according to customers' requirements.

Summary of test results

No.	Test items	Test methods	Test results	
1	Flexural properties	EN 15534-1:2014 Section 7.3.2 and Annex A	Bending strength	21.7MPa
			Modulus of elasticity in bending	4109MPa
2	Falling mass impact resistance	EN 15534-1:2014 Section 7.1.2 and client's requirement	No crack; Max depth of residual indentation: 0.27mm	
3	Swelling and water absorption	EN 15534-1:2014 Section 8.3.1	See test item 4	
4	Resistance to indentation	EN 15534-1:2014 Section 7.5	Brinell hardness	50.0MPa
			Rate of elastic recovery	56.5 %
5	Mean Coefficient of Linear Thermal Expansion	EN 15534-1:2014 Section 9.2 & ISO 11359-1:2014 & ISO 11359-2:1999 Method A	$34 \times 10^{-6} \text{ K}^{-1}$	

Test item	Thickness	Width	Length
Mean swelling	0.30%	0.033%	0.074%
Max individual swelling	0.37%	0.043%	0.080%



恰当安装和维护，绿森塑木可以使您的户外生活轻松愉悦。

在正常使用条件下，我们对最终用户使用过程中出现的变形、弯曲、开裂的质保时间是25年。如果客户投诉有质量问题，消费者需要出具发票和相关部门的质量检测认定证明。我公司不负责拆装的费用。霉菌和污垢不属于质量保证的范围。定时的清洗维护可以避免以上问题。我们不承担因非正常使用、不适当的安装方法、不可抗力等造成的损坏。就以上出现的问题不得以生产商未提供足够的操作说明为理由进行投诉。

❶ 冰雪

去除冰块时，用食盐、钙、氯化物等产品表面均无危害。但是使用后均会留有白色的痕迹，用清水或肥皂水去除即可。

❷ 灰尘/丹宁

绿森产品具有抗霉、免着色等性能，可以时常用清水进行清洗。即便是表面很清洁，经常清理花粉、灰尘等也是很重要的。

❸ 涂画

去除表面的涂画，最好的方法是用柔软的刷子沾肥皂轻轻的刷直到去除污垢。如果需要，可以用小刀去除压花表面的涂画。

❹ 污点

很多污点可以用肥皂和清水处理，如果污点比较顽固，可用一些清洁剂。始终遵循我们的指导，可以实现产品价值最大化。清洗部分颜色会变浅，需要在阳光下晒8-10周，颜色才会恢复到跟其他未清洗部分颜色一致。

❺ SHANDONG LVSEN WPC LIMITED WARRANTY

Shandonglvsen company warrants to the original purchaser that, for the period of time set forth in the following sentence, under normal use and service conditions. Shandonglvsen products shall be free from material defects in workmanship and materials, and shall not split, splinter, rot or suffer structure damage from termites or fungal decay. If a defect occurs within the warranty period, purchaser shall notify Shandonglvsen in writing.

Shandonglvsen does not warranty against and is not responsible for any condition attributable to: 1 improper installation of Shandonglvsen products and/or failure to abide by Shandonglvsen installation guidelines, including but not limited to improper gapping. 2 use of Shandonglvsen products beyond normal use and service conditions, or in an application not recommended by Shandonglvsen guidelines and local building codes. 3 movement, distortion, collapse or setting of the ground or the supporting structure on which Shandonglvsen products are installed. 4 any act of god (such as air pollution, mold, mildew, etc.). staining from foreign substances (such as dirt, grease, oil, etc.). or normal weathering (defined as exposure to sunlight, weather and atmosphere which will cause any colored surface to gradually fade, chalk, or accumulate dirt or stain). 5 variations or changes in color of Shandonglvsen products. 6 improper handling, storage, abuse or neglect of Shandonglvsen products by purchaser, the transferee or third parties. Or 7 ordinary wear and tear.

No person or entity is authorized by Shandonglvsen to make and Shandonglvsen shall not be bound by any statement or representation as to the quality or performance of Shandonglvsen products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Shandonglvsen and purchaser.

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