NANO CARBONIZATE SPC FLOORING

Hangzhou Flysnow New Material Co., LTD

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*Super Durable Abrasion
*Super Fire-proof
*Super Water-proof

COMPANY PROFILE

FLYSNOW Nanometre Carbonization floor is a new healthy floor brand developed by using the latest research and development of nano carbonization technology.

Hangzhou Flysnow New Materials Co., LTD., founded in 2017, is an advanced manufacturing enterprise focusing on the research and development, production and sales of ground paving materials. Flysnow Flooring has built more than 100 retail stores We have been established a new flooring sales network with customers over 30 countries from Europe, North America and Asia, and now it's under rapid development and expansion of our brand.

Flysnow New Materials Laboratory proposed nano carbonization technology in 2024, and obtained a new nano carbonization floor by carbonizing spc board and decorative film through high temperature pyrolysis. After nano carbonization technology treatment, the product meets China's E0 level environmental protection standards, the surface hardness can reach HL263, and the heat transfer efficiency is increased by 5W/ (m· K), greatly expanding the application range of SPC floor.
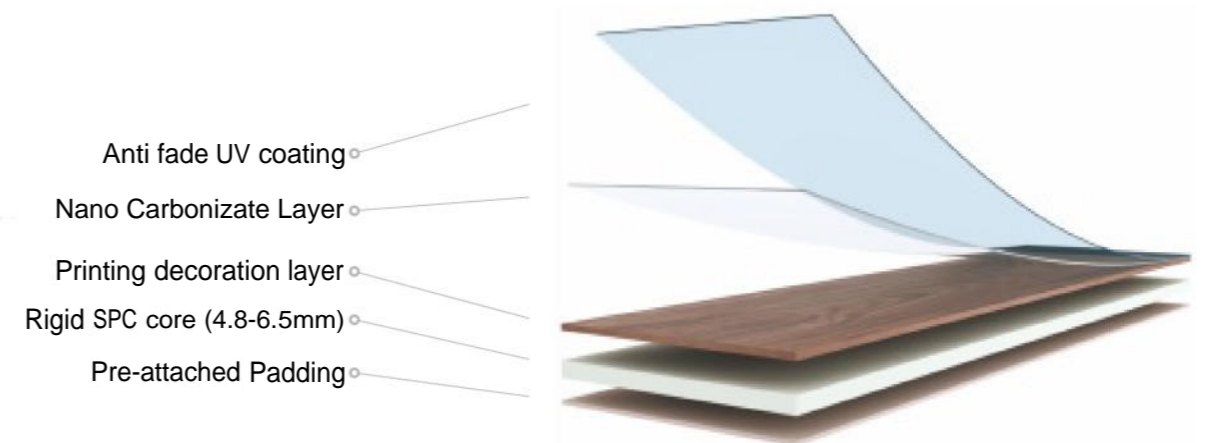
floor score | CE | SGS | B_{fl}-s1 EN13501-1:2007 | DS EN13893:2002 | Wear-resistant | Water-proof

WHAT IS SPC FLOORING?

SPC FLOORING(Rigid Vinyl Plank) is considered the new generation of floor covering. It is constructed by UV coating, Wear layer, Decorative printing layer, SPC core, Balance layer, the main content of SPC core are natural stone powder, polyvinyl chloride and stabilizer which combined by a certain formula which provides us a very stable composite material. It is an upgrade and improvement of regular luxury vinyl tiles(LVT).

For the backing, YULIN SPC FLOORING can be also with, IXPE foam to fit all different types of under¬floor and providing us excellent walking and impact sound-insulation features.

STRUCTURE

Anti fade UV coating

Nano Carbonizate Layer

Printing decoration layer

Rigid SPC core (4.8-6.5mm)

Pre-attached Padding

FLYSNOW®

ADVANTAGE OF SPC FLOORING：

Waterproof and Damp-proof

As the main component of SPC is limest one power, so it performs well with water and mildew will not happen even with high humidity.

Fire Proof

SPC flooring has passed CE standard fire-resistant test, the fire rating is Bfl-s1. According to the authorities, 95% of the victims were burned in the fire caused by the toxic fumes and gases. SPC flooring is flame retardant, not spontaneous combustion, leave the flame automatic out in 5 seconds, and won't produce toxic of harmful gases

Formaldehyde Free

SPC is high quality lime stone power& PVC resin, without harmful material such as benzene, formaldehyde, heavy metal. The final products passed the test from more than 179 different types of hazardous materials, chemicals etc.,;

Dimensional Stability

SPC flooring is extremely dimensional stable because of natural contents, Exposed to 80° heat, 6 hours- Shrinkage≤ 0.1%; Curling≤ 0.2mm.

Super Durable Abrasion

SPC flooring has a transparent wear-resistant layer, whose resolution is even higher than 10000 turns if tested as laminate flooring. And testing result of EN660-2:1999+AI : 2003 is Group T, excellent wear-resistance.

Superfine Anti-slip class

Safety is one of our major concerns when making flooring. Accordingly, as a result of specially developed structures with an anti-slip class rating , our SPC flooring performs very well to prevent skidding in damp area.

Easy To Install With Low Requirement Of Subfloor

Compared to traditional LVT, SPC flooring has a distinct advantage because it is rigid core, which can hide many imperfections of subfloor.

SPC SPECIFICATIONS

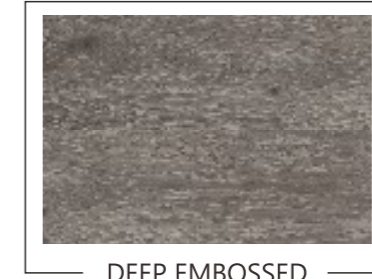| Description:	SPC FLOORING(RIGID VINYL PLANK/RIGID VINYL TILES)
Construction:	SPC core(Limestone+Virgin PVC composite, not contain plasticizer) 2200-2300kgs/m3 density
Finish:	Deep embossed, Hand scraped, Embossed in register, Marble
Nano Carbonizate Layer:	Super scratch resistant and fire-resistant layer
Gloss Level:	5%-7%
Profile:	Angle installation, Drop and Lock
Edge:	Micro-bevelde edge ,Painted bevel edge
Installation:	Float-Valinge 2G,Valinge 5G-1,Glue free.
Available plank size:	1220x180mm │ 48.03 " x7.09 " 310x620mm │ 12.2 " x24.4 "

DETAILED TECHNICAL DATA:

Properties	Test Method	Unit	Test Result		Remarks
Dimensional stability (Expansion or shrinking)	BS ENISO 23999:2012	%	Manufacturing direction	0.06	Heating temperature: 80℃ Heating time:6h
			Across-manufacturing direction	0.03	
Curling after exposure to heat		mm	0		
Peel Resistance (top layer)	BS EN ISO 24345:2012	N/50mm	Machine direction	100	Loading rate: 100mm/min
			Across machine	95	
Residual indentation	EN ISO 24343:2012	mm	0.06		Pass
Staining and resistance to chemicial	EN ISO 26987:2012	/	Not affected		Pass
Wear resistance (0.5mm/20mil)	EN 660-2:1999 +A1:2003and EN649:2011	/	Wear group: T		Pass
Color fastness to light	EN ISO 105-B02:2014	/	Grade (Bluewood Std)6		Meets requirement
Effect of a castor chair	EN 425:2002	/	No visible damage		Pass
Slip resistance	DIN 51130:2014-02	/	Critical angle of inclination:12.0°	R10	Pass
RoHS Directive 2011/65/EU	IEC 62321		Not Detected		Pass
Phthalates(DBP,BBP, DINP,DNOP,DIDP)	EN 14372:2004		Not Detected		Meets requirement
REACH	Regulation(EC)No 1907/2016 REACH	%	According to the specified scope and evaluation screening ,the test results of SVHC are less than 0.1%(w/w)		169 Substances of Very High Concern(SVHC)for authorization by European Chemicals were Not Detected.
Fire-resistant rate	EN ISO 9239-1	/	Critical flux(kW/m2)	>11	Pass
			Smoke(%xminutes)	160	
	EN ISO 11925-2 Expsure= 15s	/	Fs≤150mm	YES	Pass
VOC(Floorscore)	CDPH/EHLB/Standard Method V1. 2	/	35 types of chemicals		Pass

SPC DETAILED SPECIFICATION

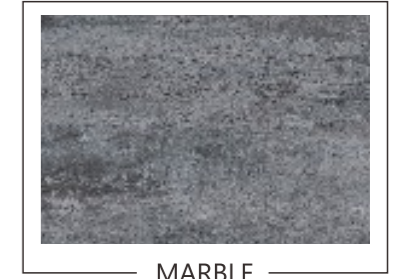| Panel Size	Thickness	Panels/Carton	m²| sq ft/ctn	Weight/ctn(kg | lbs)	CTNs/Pallet=m² | sq ft
1220×150mm | 48.03 " ×5.91 "	4mm	12	2.196 | 23.64	18.4 | 40.57	66=145 | 1560
1220×180mm | 48.03 " ×7.09 "	4mm	10	2.196 | 23.64	18.4 | 40.57	65=143 | 1540
1220×228mm | 48.03 " ×8.98 "	4mm	10	2.782 | 29.94	23.2 | 51.15	52=145 | 1560
1524×180mm | 60 " ×7.09 "	4mm	10	2.743 | 29.53	22.5 | 49.60	75=203 | 2185
935×150mm | 36.81 " ×5.91 "	4mm	16	2.244 | 24.15	18.8 | 41.45	66=148 | 1593
310×620mm | 12 " ×24 "	4mm	12	2.233 | 24.03	18.7 | 41.23	66=147 | 1582
1220×180mm | 48.03 " ×7.09 "	4.5mm	10	2.196 | 23.64	20.6 | 45.42	60=132 | 1420
1220×228mm | 48.03 " ×8.98 "	4.5mm	8	2.225 | 23.95	20.9 | 46.08	56=125 | 1345
1524×180mm | 60 " ×7.09 "	4.5mm	8	2.195 | 23.63	20.3 | 44.75	60=130 | 1399
310×620mm | 12 " ×24 "	4.5mm	12	2.233 | 24.03	21 | 46.3	58=130 | 1399
1220×180mm | 48.03 " ×7.09 "	5mm	8	1.757 | 18.91	18.4 | 40.57	65=114 | 1227
1220×228mm | 48.03 " ×8.98 "	5mm	7	1.947 | 20.96	20.35 | 44.86	60=117 | 1259
1524×180mm | 60 " ×7.09 "	5mm	8	2.195 | 23.63	22.5 | 49.60	55=119 | 1280
310×620mm | 12 " ×24 "	5mm	10	1.861 | 20.03	19.5 | 42.99	60=112 | 1205
1220×180mm | 48.03 " ×7.09 "	5.5mm	8	1.757 | 18.91	20.2 | 44.53	60=105 | 1130

PRE-ATTACHED PADDING OPTION:

1mm IXPE, 1.5mm IXPE

If your requested size is not on above list, we can do OEM size for you.

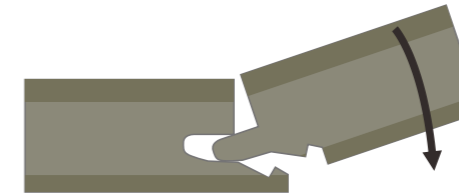**TEXTURE:**

DEEP EMBOSSED

MARBLE

BEVEL:

Micro-bevel

Painted-bevel

LOCK:

UNILIN CLICK LOCK SYSTEM

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-1161-1

YL-1161-2

YL-1082-1

YL-1082-2

YL-1082-3

YL-1082-4

YL-1082-5

YL-1082-6

YL-1082-7

YL-1082-8

DEEP EMBOSSED
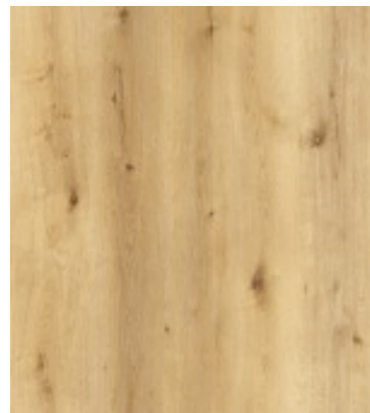Flooring Size:48.03"x7.09" (1220x180mm)

YL-1092
DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

DEEP EMBOSSED
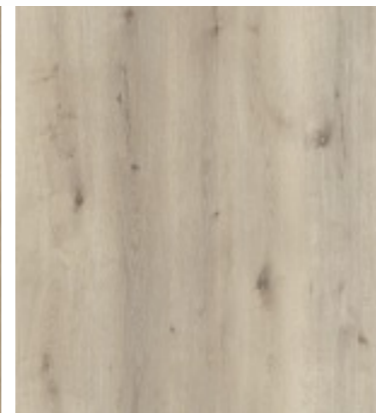Flooring Size:48.03"x7.09" (1220x180mm)
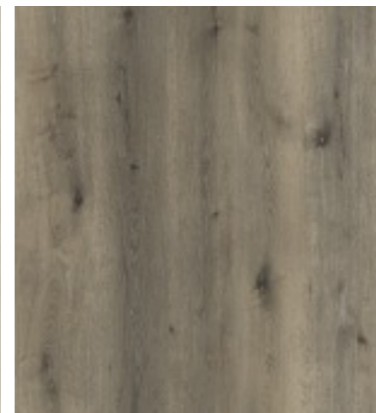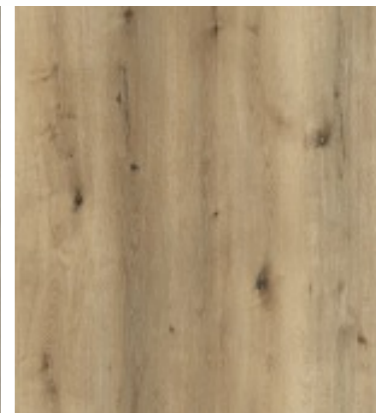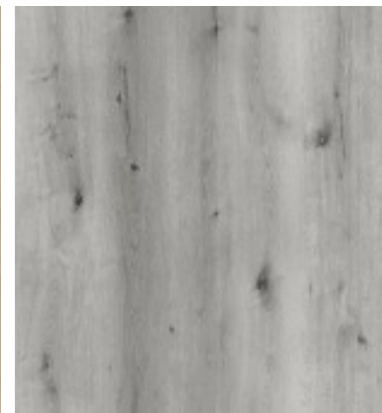
| YL-2016-1 | YL-2016-2 | YL-2016-3 | YL-2016-4 | YL-2016-5 | YL-2016-6 | YL-2016-7 | YL-2016-8 |

DEEP EMBOSSED
Flooring Size: 48.03"x7.09" (1220x180mm)

YL-1083-1   YL-1083-2

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)
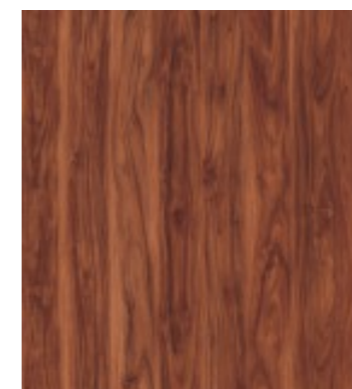
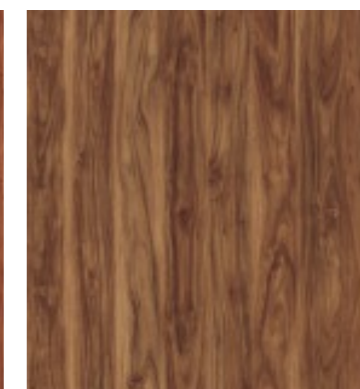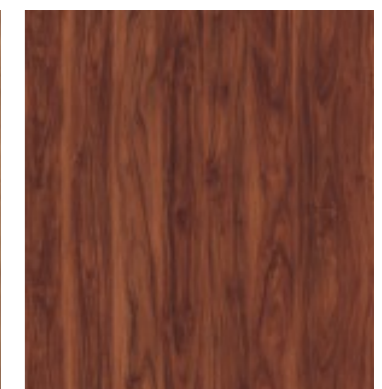| YL-3001-1	YL-3001-2	YL-3001-3

YL-3001-4	YL-3001-5	YL-3001-6

YL-1128-1

YL-1128-2

YL-1128-3

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-3003-1

YL-3003-2

YL-3003-3

YL-3003-4

YL-3003-5

YL-3003-6

YL-3003-7

YL-3003-8

YL-3003-9

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-3007-1

YL-3007-2

YL-3007-3

YL-3007-4

YL-3007-5

YL-3007-6

YL-3007-7

YL-3007-8

YL-3007-9

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-3005-1

YL-3005-2

YL-3005-3

YL-3005-4

YL-3005-5

YL-3005-6

YL-3005-7

YL-3005-8

YL-3005-9

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-3006-1

YL-3006-2

YL-3006-3

YL-3006-4

YL-3006-5

YL-3006-6

YL-3006-7

YL-3006-8

YL-3006-9

DEEP EMBOSSED
Flooring Size:48.03"x7.09" (1220x180mm)

YL-3008-1

YL-3008-2

MARBLE
Flooring Size:12.20"x24.4" (310x620mm)

YL-3009-1

YL-3009-2

MARBLE
Flooring Size:12.20"x24.4" (310x620mm)

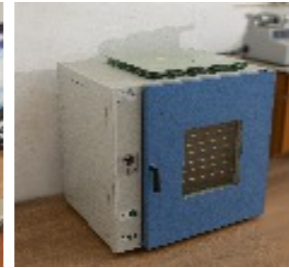## WHY US - ADVANCED PRODUCTION LINE

- MATERIAL: BRAND NEW VIRGIN PVC
- PROFESSIONAL MANUFACTURE
- ISO APPROVED MANAGEMENT
- FACTORY PRINCIPLE: QUALITY FIRST

Strength
Test machine

Wear-resistance
Test machine

Dimentional
Stability
Test machine