

SPC FLOORING

The *New* "Upgraded" Classic & Ideal Flooring



Camfly

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Camfly SPC Flooring

With advanced printing and texturing technologies, the new flooring is the best-looking, best-performing sheet vinyl floor in the market, which is now known as SPC flooring, Rigid Vinyl flooring. The SPC Rigid flooring is the next evolution in sheet vinyl flooring. Each product of SPC flooring provides a broad range of natural designs, from realistic wood grains to elegant stones and rustic slates - choose the one that suits your lifestyle and your home.

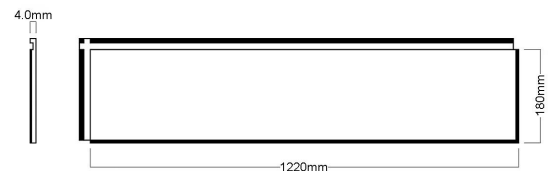
What is SPC Flooring?

SPC Flooring (Rigid Core LVP) is the latest upgrade and improvement of traditional Luxury Vinyl Tiles (LVT), which is so popular in USA nowadays. The main contents of SPC are natural Lime Stone powder, Polyvinyl Chloride (PVC Resin) and Stabilizer which combined by a certain ratio to provide us with a very stable composite material. SPC flooring is designed to exceed. It is made up of 6 layers which includes the solid vinyl core with click, decor printing film with excellent design, wear layer with super strong vinyl, and of course the UV protective layer.

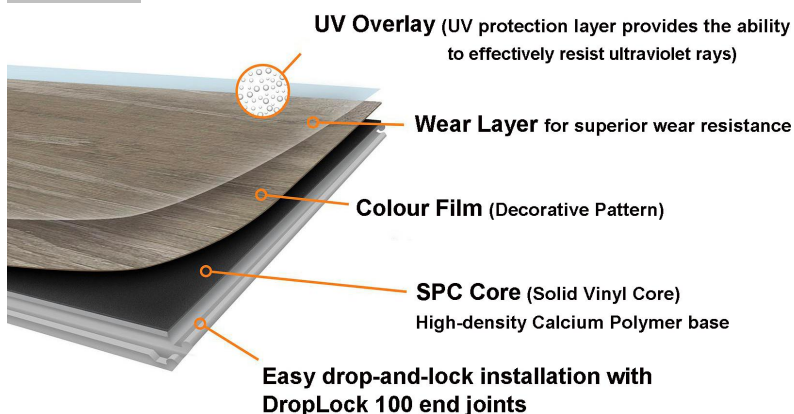
SPC flooring is the newest generation of rigid core luxury vinyl flooring with a floating system & using click & lock joint, can be easily installed on different type of floor base, you can put it on either concrete or ceramic or existing flooring etc.

Specifications of Camfly SPC Flooring:

- Thickness: 4.0 mm
- Size: 48" x 7" (1220 mm x 180 mm)
- Wear Layer: 0.3 mm
- Weight: 1.8 kg / per sheet (8.2 kg / per sqm)



Structure:



Surface:



Deep Embossed

SPC Rigid vinyl flooring is at least 50% better than traditional luxury vinyl tiles in physical performance owing to improvements in the dimensional stability, which is now four-times better. The SPC flooring is not only popular in North America and Europe, but also getting hot in Southeast Asia, Latin America and Africa, due to its amazing performance under huge variations of temperature and humidity.

Key Advantages:

✦ **Water-proof & Fire-retardant**

100% absolutely water-proof, can be installed in kitchens, bathrooms, laundry rooms and basements. Fire-retardant, the flame on SPC flooring will be automatic out in 5 seconds and won't produce toxic or harmful gases.

✦ **Health, Safety & Environmental**

Safe & Sustainable, Say goodbye to formaldehyde, Anti-mildew and Anti-bacterial. Our products have passed the tests from more than 179 different types of hazardous materials and other chemicals;

✦ **Heat-and-cold Resistance**

No curling even in higher/lower temperature environment. SPC flooring can bear the temperature difference from -75°C to 80°C. The dimensional stability is brilliant. The shrinkage≤0.002%, curling≤0.2mm with EN434 standard.

✦ **High Strength**

High density Rigid core material, much stronger than regular LVT & strengthened click system. Of course, SPC is also Anti-abrasion and Anti-slipping.

✦ **Incredibly Stable Quality**

Extremely stable, few expansion and shrinking (0.06%), this is the biggest advantage compared with regular LVT, WPC or laminate flooring. With the new upgraded formula, SPC flooring is more Rigid and stable, which enables it can be installed everywhere even suitable for under floor heating.

✦ **Others**

Superior indentation resistance.

Glue free, easy installation with click & locking system.

Super construction - Engineered for durability & designed for fashion

Attached XPE/EVA/CORK underlayment - provides acoustical benefits, comfort underfoot & will not support mold or mildew.



100% WATERPROOF SPC FLOORING
the newest generation of rigid core luxury vinyl flooring



Why choose SPC Flooring? Here are 4 things you need to know

1. Vinyl Flooring Market Trend

It is no secret that laminate flooring is one of the most popular flooring choices in the market. But ever since the US “poison floor” incident, exports decreased 70% which brought a huge negative impact to laminate floor manufacturers. In the recent years, the United States has continuously raised the threshold of imports of wood products. Just a few months ago, the US Environmental Protection Agency (EPA), published a rule for the implementation of the 2010 Formaldehyde Standards Act for wood products which are imported and locally produced in the US. Therefore, we are expecting growth in the production of SPC flooring in the coming years.

2. Vinyl Flooring Market Demand

Luxury Vinyl Tiles (LVT) and Wood Plastic Composites (WPC) flooring sales have increased dramatically in the past few years. In 2014, a new WPC flooring was introduced at the International Exhibition but due to glue, deformation, and warping issues, flooring companies have decided to launch a single layer of stone plastic with a wear resistant layer and a printing layer called the Stone Plastic Composite (SPC rigid vinyl flooring) which was launched at the International Exhibition in 2017. It easily became popular and the trend in floor covering which also attracted many foreign buyers.

3. SPC rigid vinyl flooring Advantage

SPC rigid vinyl flooring, also known as Rigid Vinyl Plank is based on a high tech development of a new environmentally friendly flooring which is 100% formaldehyde free. Unlike laminate flooring, SPC rigid vinyl flooring is produced with 100% virgin PVC and extruded the substrate from the extruder with T-die. Then use three or four rollers calendar disposable heating and laminating PVC wear layer, color film and PVC substrate material together. The process is simple, laminating complete according to the heat, GLUE FREE. It is 100% waterproof and is fire resistant. It's very durable, easy to be maintained and also has a variety of easy installation option (which is the same as LVT) to choose from.

4. Why is SPC flooring popular in the market?

SPC rigid vinyl flooring is 100% Eco-friendly because it uses environment friendly formula. It does not contain heavy metals, phthalate, methanol, and other harmful substances. It complies with EN14372, EN649-2011, IEC62321, GB4085-83 standards. It is becoming very popular in Europe, other well developed countries like the United States, as well as the Asia Pacific market. By virtue of its excellent stability and durability, SPC rigid vinyl flooring not only solves the solid wood flooring damp and mold problem but also solves formaldehyde problems. It is economic and also has different color patterns to choose from. Great for home, hotels, hospitals, shopping malls, and buildings.

These are only some of the many great advantages of having a SPC rigid vinyl flooring. It's Eco-friendly, very durable, easy to maintain, and very affordable. You will certainly never go wrong with a SPC rigid vinyl flooring.

Camfly SPC Flooring warrants that its Rigid Core LVP Waterproof flooring will be free from manufacturing defects and, under normal use and maintenance, will not wear, fade or stain resulting in loss of original pattern and color, and the structural integrity of the flooring itself will not be materially damaged by water exposure from the date of purchase for a period of:

- ❖ **Lifetime Limited Residential**
- ❖ **15 Year Limited Commercial**

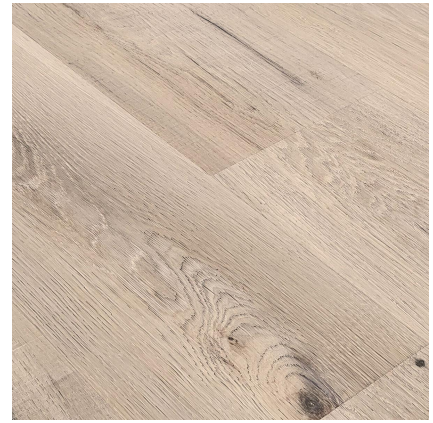
This Limited Warranty only applies provided the flooring covered by this warranty is installed and maintained according to the current SPC Flooring Installation & Maintenance Guide.



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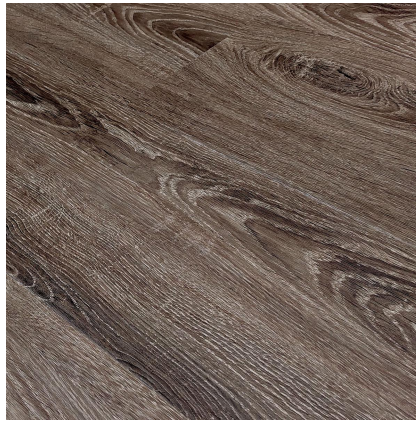
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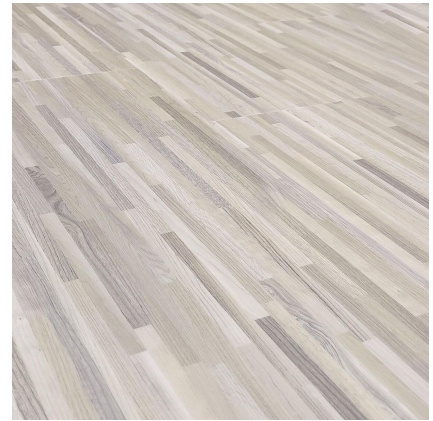
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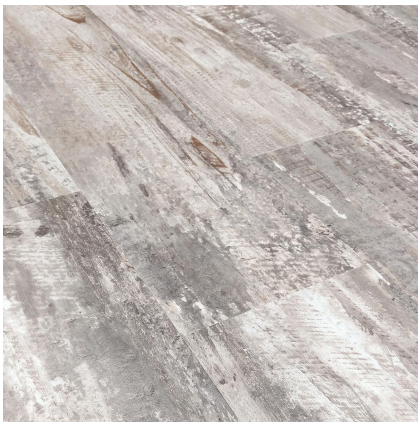
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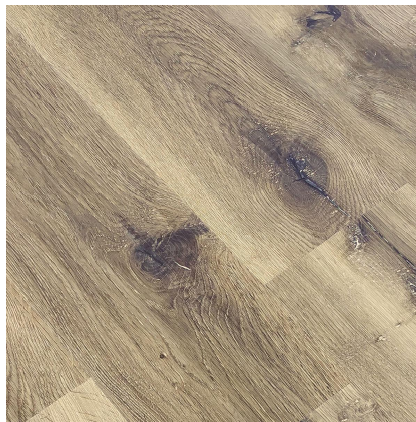
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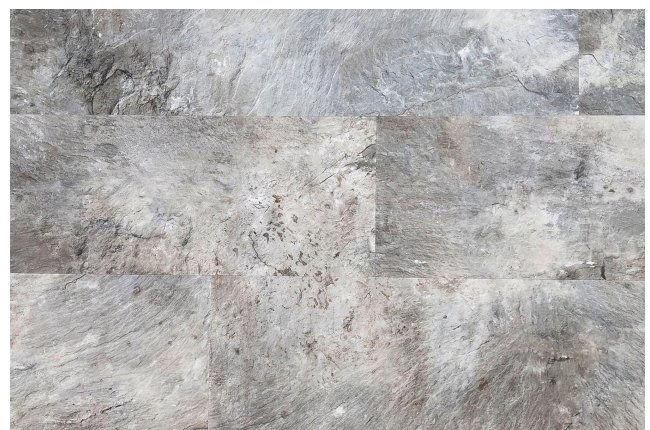
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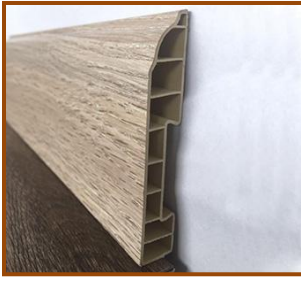
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89721

- Much of 89721# is supplied in the 1220*180*4mm size, though 610*305*4mm is also available for the moment.
- Camfly SPC Rigid Vinyl Flooring will be available in a wide variety of colours and designs.
- Colors as shown in the catalogue may vary from the actual colors of the products.
- Visit your nearest Camfly stockist to confirm your final selection.

◆ ACCESSORIES



Skirting 80-1

✦ Size: 2400 x 80 x 15 mm

Skirting 100-1

✦ Size: 2400 x 100 x 17 mm

Skirtings (Baseboards) are used to cover the joint between the wall and the flooring surface.



Reducer

✦ Size: 2400 x 43 x 10 mm

Reducers are used to transition from SPC flooring to floors of different height.



T-Molding

✦ Size: 2400 x 46 x 7 mm

T-Moldings are commonly used in doorways to join two flooring with same level.



Underlayment

✦ Size: 16900mm x 1100mm x 1.5mm

Underlayment (EVA / IXPE) is placed underneath the flooring to provide comfort underfoot and to provide insulation against sound, moisture and heat.



◆ SPC FLOORING INSTALLATION

The installation of SPC Flooring is a relatively simple DIY project that you can do yourself. To start off, ensure the subfloors are complete level and smooth. Fill any small dents and sand down protruding parts of the surface if necessary. The boards are cut in a way that each subsequent piece will have grooves that click into one another. This means the entire floor will not need an adhesive or nails to stay in place, giving you a no mess, no fuss experience.

PREPARATIONS

- ✦ Concrete(or Wooden) subfloors must be clean, dry and structurally sound.
- ✦ Concrete(or Wooden) subfloors must be flat and leveled with a scraper and putty knife.
- ✦ Subfloor should be flat and level within 4.8mm per 3.3 meters radius.
- ✦ Concrete subfloor must be fully cured for at least 60 days prior to SPC flooring installation.
- ✦ Something like carpet, cushion vinyl, polish, dirt and paint should be removed from the job surface.
- ✦ Maintain the room temperature above 15°C (59°F) before installation.
- ✦ Check whether the doors can be still opened or closed after flooring has been installed (minimum 1cm (3/8")).

KEY INSTALLATION CONSIDERATIONS

- ✦ Underlayment is not allowed to be more than one layer/sheet.
- ✦ Any rubber mats or glue cushions are prohibited from replacing undelayment.
- ✦ Ensure that all installing products must be in the consistent batch numbers.
- ✦ Position the plank to be installed at an angle of 15° to 20° to the plank already installed.
- ✦ Move the plank gently up and down and at the same time exert forward pressure.
- ✦ The planks will automatically click into place.
- ✦ You can either insert the tongue into the groove, or the groove into the tongue.
- ✦ The tongue in groove method is the most common and the easiest way.

- a. Existing subfloors level must be within acceptable level with a tolerance level of 1mm only. Otherwise, this will result in uneven or undulate effect on the flooring after completion.
- b. It is advisable to do self-leveling cement before laying planks for uneven subfloors.
- c. Uneven surface on the wall will result in a gap between wall and planks, it is advisable to do skim coat for the gap when floor completed. This can be substituted with wall skirtings.
- d. If floor skirting is excluded, it is advisable for SPC flooring to be intalled at first before laying any wallpanel or partition to avoid visible gaps between wall and flooring. During the period of installation, covering is required to protect the completed flooring.
- e. If floor skirting is included, it is advisable for SPC flooring to be installed at last to avoid damage to the flooring.

INSTRUCTIONS



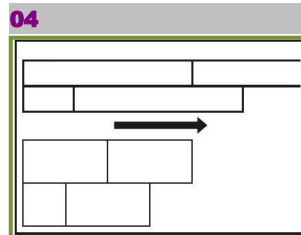
01 SET SPACERS
Create the required expansion space between planks and perimeter walls using 3/8" spacers on short and long ends of plank. For rooms wider than 50', a 1/2" expansion space is expansion spacers until installation is complete.



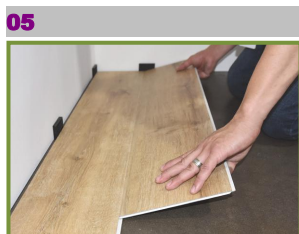
02 INSTALL 1ST PLANK
Position the first plank against the 3/8" wall spacers along the starting wall beginning at the corner of the room. Tongue side of plank should be facing the starting wall.



03 LOCK END JOINTS
Install the next plank of the first row, locking short end of plank to the first by inserting tongue into groove at an angle and drop in place. Continue installing each plank until end of first row is complete. Cut last plank of first row as needed to fit.



04 ESTABLISH STAGGERING
For random length installations, there must be at least an 8" stagger from row to row throughout the entire installation. For a brick laid pattern for fixed length floors, planks should be offset by 1/2 their length and laid accordingly.



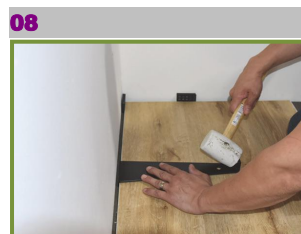
05 1ST PLANK, 2ND ROW
For random length installation, cut the first plank for the second row to 1/3 its length and insert the long tongue edge of the plank into the long edge groove of the first row plank. Make sure there are no gaps between planks. Use pull bar as needed to close tightly.



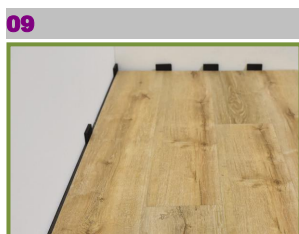
06 2ND PLANK, 2ND ROW
Insert the short tongue of a new plank into the short groove of the previously cut plank and then insert the long tongue edge of the two attached pieces at the same time into the groove of the first row. Use the pull bar as needed to ensure a tight fit.



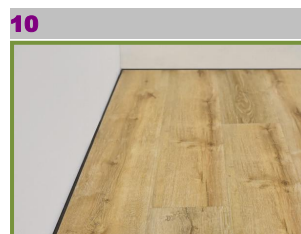
07 CONTINUE 2ND ROW
Lock long edge of plank by inserting tongue into groove at an angle and drop in place. Slide plank toward end of previously installed plank until the tongue just touches the groove. Use tapping block gently on short & long edge to ensure a tight fit.



08 LOCKING PLANK INTO PLACE
Tap ends of plank with rubber mallet and tapping block gently to lock ends of planks together. Be sure to tap on short end groove sides of panels to avoid damaging the locking profile. Use pull bar on long edge of plank to ensure tight fit.



09 INSTALL REMAINING ROWS
Insert the short tongue of a new plank into the short groove of the previously cut plank. Place the short, cut edge against a spacer and insert the long, tongue edge of the two attached pieces at the same time and continue process until completion.



10 FINISH THE JOB
Remove spacers. Cover expansion space with baseboard, quarter round or other trim as desired. Use flexible caulking to fill expansion gap around bathtubs or showers. Make sure not to pin down the floor underneath molding.

Warning: Do NOT use ball type castors as they can damage the floor. For office chairs soft-wheeled castors must be used. Heavy furniture and appliances should be equipped with non-staining large surface floor protectors.

COMPARISON OF FLOOR COVERINGS



	SPC Rigid Flooring	Vinyl (LVT) Flooring	WPC Flooring	Laminated Flooring
Rigid core for klik with a easy & fast installation	√	N/A	√	√
Pre-attached underlayment (EVA / IXPE)	√	√	√	√
Suitable for small imperfections under floor	√	N/A	√	√
Little under floor preparation required	√	N/A	√	√
Stable in high temperature environment	√	N/A	N/A	√
Install on big areas without T-molding for transition	√	√	√	N/A
Stable in rooms with sun lights	√	N/A	√	√
Perfect sound absorbent	√	√	√	N/A
Water-proof, Install in bathroom and laundry room	√	√	√	N/A
Plasticizers free	√	N/A	N/A	√
Formaldehyde free	√	√	√	N/A
Indentation & impacts resistance	√	N/A	N/A	√
Easy to install with drop-down lock system	√	N/A	√	√

* SPC: Stone Plastic Composites, LVT: Luxury Vinyl Tiles, WPC: Wood-Plastic Composites

STABILITY TEST REPORTS (Provided by Camfly Partners)

1. Dimensional Stability and Curling after Exposure to Heat

Test Method	Test Result	
With reference to BS EN ISO 23999:2012	Dimensional Change (%)	Manufacturing Direction: 0.06 Across-manufacturing Direction: 0.03
	Curling (mm)	0
Remark	Specimen Dimension: 260mm X 90mm X 5mm, 3 pcs Test specimens were cut from the original sample Heating Temperature: 80°C Heating Time: 6 hrs	

2. Peel Resistance

Test Method	Test Direction	Peel Resistance (N/50mm)	
		Individual Value	Average Value
BS EN ISO 24345:2012	Machine Direction	80	80
		80	
		75	
	Across Machine Direction	80	75
		70	
		80	
Remark	Specimen Dimension: 150mm X 50mm X 4mm, 6 pcs Loading Rate: 100mm/min		

TECHNICAL SPECIFICATIONS (Provided by Camfly Partners)

Technical Specification	Standard	Characteristic / Result	
Fire Classification	DIN 4102	Flame Retardant B1	Flame Retardant B1
Wear Resistant	EN 13329	AC3/W31	No Visible Change
Stain Resistance	EN 13329	Rating 5	No Visible Change
Thickness Swelling	EN 13329	Average ≤ 0.06%	Average ≤ 0.06%
Light Fastness	EN 13329	Grade 6	No Discolouration

