



## PVC CEILING & SPC FLOORING

16 Years of Manufacturing Experience in South Africa



CAMFLY IS NEVER COMPROMISE ON QUALITY

[www.camfly.co.za](http://www.camfly.co.za)  
**Camfly**  
Xionglong Trading (Pty) Ltd · Since 2008



# Decorative & Durable PVC Ceiling & Wall Panels



## PVC Ceiling & Wall Panel's Key Advantages Include:

- Fire Retardant
- Rot, Rust & Water-proof (100% waterproof)
- Yeast & Mould Free
- Anti-bacterial
- Not affected by Termites
- Heat & Sound Insulation (Its insulation effect is excellent, including in air)
- Fiberglass, Asbestos & Lead Free
- Easy to Install (Lightweight and therefore easy & quick to install with no mess or fuss)
- Easy to Clean (With water & dishcloth only)
- Maintenance Free
- No Painting Required (An ideal substitute for ordinary gypsum board and rhino board ceiling)
- Environment Friendly & Safety
- Economical
- Recyclable
- Indoor Use (House, Office, Hospital, School, Shopping Mall, Restaurant, Retailing & Leisure Space, etc)

*The hollow structure of PVC ceiling allows a much smaller heat transfer co-efficient which is only 1/1000th that of aluminium. This contributes significantly to the insulation effect that guarantees a cool summer retreat and a warm room in winter.*



# The Significance of Choosing **Camfly**

The most of you are already familiar with the PVC ceiling products in recent years, and the products have been swiftly growing in popularity in South Africa as we keep up the push for the products. Our company is the most influential manufacturer of PVC ceiling products known under the brand **Camfly** in South Africa. Camfly products gain the good public praise and approbation in the market depending on absolutely competitive quality, distinct effect and outstanding service. We believe that the quality or performance of every product is becoming increasingly important, unfortunately, however, we have seen thousands of unknown PVC ceiling products with inferior quality are inundating the whole of South Africa, they are boldly invading the industry and damaging the existing market with impunity.

Everyone should use top quality PVC Ceiling products, unfortunately not many people are aware that there is an ideal product on the local market. We would remind our valued customers of why we are so passionate and proud of the quality PVC ceiling products we make. Many Suppliers or Distributors claim to supply or sell quality PVC ceilings but can't provide the hallmarks of genuine PVC ceiling products. Camfly has various advantages over other suppliers:

## 1. For Credibility, Authenticity, Reputation and Specialization

Camfly	Non-Camfly
The first and biggest manufacturer with more years professional services and abundant marketing experiences in South Africa.	Unknown Origin.
Quality Standards and Production Requirements by the climatic condition and building situation of South Africa.	Not Applicable.
Authoritative SABS Testing Reports.	Untested or Uncertificated.
Formidable Productivity and Timely Delivery. Prompt Orders Processing, Ideal Lead Times.	No Timely Delivery, Long Lead Times.

## 2. For Quality, Specification and Colour

Camfly	Non-Camfly
Absolutely high content of raw PVC (Polyvinyl Chloride).	Far lower than standard requirement. Mixed with waste materials.
A strong and firm plate body to resist the back pressure between ceiling board and roof.	Fragile, Insufficiently firm. Lower compressive strength. Accidents frequently happen due to quality.
Flexible and suitable for bowing even bending ( <i>available for Series 25B &amp; 25C</i> ). Much easier to load or unload and install.	No flexibility available.
Much better visual effects, Hardly any color difference.	Frequently occurring color difference due to discontinued supplies.
Any special sizes can be customized ( <i>up to 15 metres</i> ). Camfly is available in a large variety of finishes, colors and patterns to cater to anyone's preferences.	Single and stationary size. Length of 3.9m or 5.9m is available only. Unable to cater for special customization.

## 3. For Others

Camfly	Non-Camfly
Far More Cost Effective / Cost Performance.	Low PPR (Performance-to-Price Ratio).
More Excellent Durability. Factory-warranted Quality. Camfly Products are of the highest quality and come with a product guarantee of 20 years.	Briefer Product Lifetime. No Warranty.
Authentic Guarantee of Local Manufacturer.	Not Applicable.

**QUALITY IS EVERYONE'S RESPONSIBILITY AND WE NEVER HAVE TO STOP GETTING BETTER.**

**Camfly is the answer if you are looking to install an classy ceiling.**

# TEST REPORTS



**TEST REPORT** **SABS**

Your ref: E153  
Our ref: MJ Raghni  
Enquiries: (012) 428 6057  
Report #: 2116/Er153 R  
Page: 1 of 2  
Date: 2011/09/29

**PVC CEILING PANELS**

**0 SUMMARY**  
The samples tested comply with the requirements of the manufacturer's method. The report was revised due to wrong specification on the company name.

**1 DESCRIPTION OF SAMPLE**  
The following samples were submitted by Mr. Xiong Gao of Xionglong Trading cc.  
SABS Sample No. Quantity Sample Description  
Er153 13 X PVC Ceiling Panels

**2 SAMPLE SUBMITTED**  
The samples were received in good condition and suitable for testing.  
Date sample received: 25/03/2011  
Test commencement date: 29/05/2011  
Test completion date: 29/05/2011

**3 TEST REQUESTED**  
Durability of acetone  
Size change while after between high and low temperature  
Impact  
Changing while heating  
Heated state

**4 METHODS OF TESTING**  
Methods used according to manufactures specification: XIONGLONG PVC CEILINGS

**5 CONDITIONING AND TEST ENVIRONMENT**  
23 ± 2°C, 50 ± 5% relative humidity.

1 Dr. Laetitia Rossouw, Greenfield, Private Bag #191, Pretoria, 0001, Tel: +27 (0)12 428 7911, Fax: +27 (0)12 344 1568  
This report was prepared by SABS Commercial (Pty) Ltd. This report is for the specific samples tested as identified herein. It does not imply SABS approval of the quality and/or performance of the materials or the test results. This report may not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of this page.)  
This report may not be reproduced or stored in any retrieval system without the prior written consent of SABS Commercial (Pty) Ltd.

**SABS Commercial (Pty) Ltd**  
Report No. 2116/Er153 R Page 2 of 2

**6 SUB CONTRACTING OF LABORATORIES**  
All tests were performed by: the Rubber & Plastics Laboratory of SABS Commercial (PTY) Ltd.

**7 RESULTS**

Property	Requirement	Result
Exterior	There should not be defect like dent, scratch, distortion, impurity, colour difference which is influenced to the usage	Complies
Durability of Acetone	No visible defects	Complies
Nail Resistance	No burting	N/A
Size change while after between high and low temperature, %		
after 90°C	± 0.4	0.4
after -20°C	± 0.4	0
Impact	No diaplination	Complies
Changing while heating, %		
Length	8.0 maximum	1.0
Width	8.0 maximum	0.4
Flexural Strength, %	1.5 maximum	N/A
Heated State	No bubbles, Chasme and mechanical pittings	

**8 DISPOSITION OF SAMPLES**  
All samples will be disposed off, if not collected within 3 months from date of this report.

Mr. MC Sibiba  
MANAGER: RUBBER AND PLASTICS / PAINTS AND SEALANTS

This test was performed by SABS Commercial (Pty) Ltd. This report relates only to the specific samples tested as identified herein. It does not imply SABS approval of the quality and/or performance of the materials in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

**REPORT ON THE FIRE PROPERTIES**

**Figure 4.2.2: Test specimen subsequent to completion of the test**  
The temperatures recorded in the furnace are depicted graphically in Figure 4.2.3. This plot confirms that no ignition had occurred as no secondary temperature peaks were noted at positions further along the length of the tunnel.

**Figure 4.2.3: Temperatures recorded during the test on PVC-Ling ceiling system**

PVC-Ling – SANS10177 Pt 5 and 10 **Confidential** FTC09/001 Page 5 of 6

## CAMFLY PVC CEILINGS PERFORMANCE TEST REPORT (SABS) 2116/Er153R

### Report on the fire properties from FIRELAB cc (13 March, 2009 Contract No. FTC09-001).

The overall classification of B/B1/B2 is applicable to this product in terms of the SANS 428 Specification.

The Fire Retardant

Burnt the sample with spirit lamb flame for 3 seconds, the panel burn, but the sample extinguished once away from the flame.

Deflection after 60°C

The PVC board was placed on the metals tray, and then put into the air-circulating over of 60°C, the sample was placed in the oven for 10min. The sample qualifies below 6% of board width.

Deflection after -20°C

The PVC board was placed on the metals tray, and then put into the cold chamber of -20°C, kept in the temperature for 10min. The sample qualifies below 5% of board width.

**TEST REPORT** **SABS**

**Heat Transfer Laboratory**  
Report number 2020.5560-1R1 Page 1 of 2

Your ref: GPN 6033/2012  
Our ref: FM Mogorosi  
Enquiries: (012) 428 6819  
Page: 1 of 1  
Date: 2012-08-02

**Camfly PVC Ceilings**  
Xionglong Trading cc  
Attention: Mr. Charlie Gao  
9<sup>th</sup> Avenue 12  
Industria  
KROONSTAD  
9499

**PVC CEILING BOARD**

**1. DESCRIPTION OF SAMPLE**  
Hard plastic ceiling board

**2. TEST METHOD**  
Thermal conductivity tested according to ASTM C518 and T0178-W-015

**3. RESULTS**

Average thickness as received, m	0.0098
Average thickness as tested, m	0.0099
Average conditioned weight, kg	0.29
Average mass after tested, kg	0.29
Density as tested, kg/m <sup>3</sup>	321.3
Mean hot temperature, °C	36
Mean cold temperature, °C	10
Mean temperature, °C	23
Mean difference temperature, °C	26
Average temperature gradient in specimen, °C/m	2349
Heat flux direction	Downwards
Thermal conductivity, W/m.K	0.0785
Thermal resistance, m <sup>2</sup> /K	0.1249
Thermal conductance, W/m <sup>2</sup> .K	8.0075

1 Dr. Laetitia Rossouw, Greenfield, Private Bag #191, Pretoria, 0001, Tel: +27 (0)12 428 7911, Fax: +27 (0)12 344 1568  
This test was performed by SABS Commercial (Pty) Ltd. This report and the test results relate only to the specific samples identified herein. They do not imply SABS approval of the quality and/or performance of the materials in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of this page.)

## THERMAL CONDUCTIVITY TEST REPORT (SABS) 2020.5560-1R1

**SABS**

**Report number 2020.5560-1R1** Page 2 of 2

**4. REMARKS**

- Duration of test: 2012-07-26 to 2012-07-27
- Duration of measurement portion of test: 3 hrs
- Laboratory environmental conditions: 22 ± 5°C and 50 ± 10% RH
- Sample conditioning: The samples were conditioned for a period of at least 48 hrs at laboratory conditions before being tested.
- Date of calibration of Lasercomp instrument: 2012-10
- Position of the heat meter apparatus during testing: Horizontal
- The reported uncertainty of measurements of ± 10 % is based on a standard uncertainty multiplied by a coverage factor of k = 2, providing a level of confidence of approximately 95 %, the uncertainty of measurement have been estimated in accordance with the principles defined in:
  - The GUM, Guide to Uncertainty of Measurement, ISO, Geneva, 1993
  - Assessment of Uncertainties of Measurement by RR Cook, 2<sup>nd</sup> Edition, 2002 - EAL-RZ
- This certificate supersedes certificate No. 2020.5560-1R dated 2012-07-31. The certificate is re-issued due to the change of the company name commissioned by the client.

FM Mogorosi (SANAS Technical signatory) H Hendrikz (Manager)

**Sound absorption coefficient measurements in accordance with ISO 10534-2 - transfer function method**

Test requested by: Xionglong Trading cc  
9<sup>th</sup> Avenue 12, Industria  
Kroonstad  
9499

Test performed by: Acoustic Work  
P.O. Box 332  
Kloof, 3640  
Natal, South Africa  
Ph: 0833088097  
www.acousticwork.com

Date on which test was performed: 31st March 2011  
Barometric pressure: 947 millibars  
Temperature: 24°C  
Measurement platform: Mitha 2000 RCAI  
Microphone: Earthworks M430 R0449  
Impedance tube: Steel 80mm diameter, length 2000mm  
Sample supplied by: Xionglong Trading cc  
9<sup>th</sup> Avenue 12, Industria  
Kroonstad, 9499  
E-200  
Camfly PVC-Ceilings  
Thickness: 7.0mm  
Detailed Description: Camfly PVC-Ceilings

Mounting of sample: In accordance with ISO 10535 requirements. An 80mm diameter impedance tube was used to test frequency range from 100Hz - 2K.  
Three microphone locations and a digital frequency analysis system used.

**Camfly PVC-Ceilings**

NRC 0.29 Mounting E-200

The noise reduction coefficient NRC is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000Hz for this material and a mounting condition. It is not, as its name implies, the difference in sound levels between two conditions or between two rooms.

## REPORT ON THE FIRE PROPERTIES



**Maintenance FREE**





**Camfly** factory is affiliated to the company Xionglong Trading (Pty) Ltd. It was founded in 2008 and has started as a ceiling manufacturing business since 2009 that supplied PVC products in South Africa. **Camfly** Factory has been formally producing SPC flooring products since 2019.

The company is the first and biggest manufacturer in South Africa, having as main activity the producing and supply of a variety of different **Camfly** PVC ceiling products and SPC flooring boards. From the start of business, **Camfly** has focussed on making use of only the best quality raw materials to ensure that our products are of the best quality with the highest content of PVC, meet the traits or standards of local housing construction and outlast any of our customers' expectations. Our products are built by advanced machinery and skilled technicians that are closely monitored and continuously trained and tested. We strive not only to continuously grow, but also to consistently deliver high quality products backed by excellent service.

**Camfly** has provided large quantities of top quality products to our existing customer base. We are proud to mention that currently, a few of our products are now supplied to RDP housing contractors. Due to an increase in demand, we had proudly expanded our manufacturing capacity which had led to our producing department relocating to larger premises in 2015.

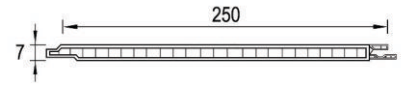
Our products are used all over South Africa and abroad in several countries of Southern Africa. Through focusing continuously on our core value's, we strive to use only the best quality materials in the construction of our products, be consistent in all that we do, build valuable relationships based on mutual trust and dependability.

With a total area of 30 000 square meters, out of which 15 000 square meters are used as production and warehousing spaces and with its own car fleet, the company ensures the prompt and immediate delivery of **Camfly** products to all its customers.

The constant stocks from the warehouses enable quick and flexible deliveries, the purchase orders being delivered within the shortest possible time. Due to the quality of **Camfly** products, we have a permanently growing network of customers.

Make **Camfly** your number one choice in a solution provider for your finishes that will be the hallmark of your dream living space.

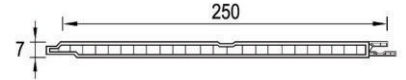
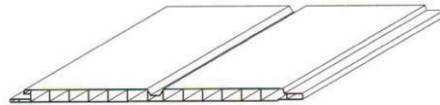
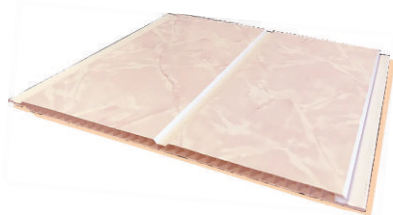




Range: **25B / 25M** (Camfly Ceiling Panel)

Width: 250mm Thickness: 7mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

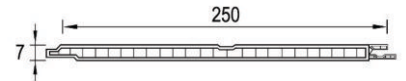
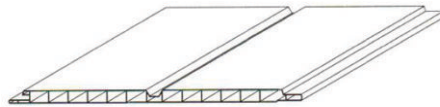
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping



Range: **25C** (Camfly Ceiling Panel)

Width: 250mm Thickness: 7mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

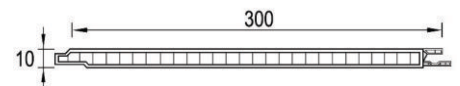
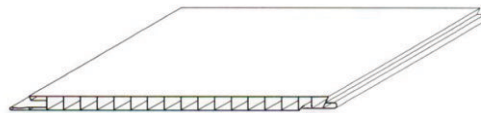
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping



Range: **25CL** (Camfly Ceiling Panel)

Width: 250mm Thickness: 7mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

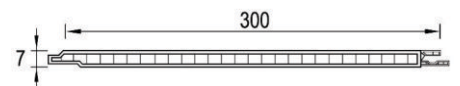
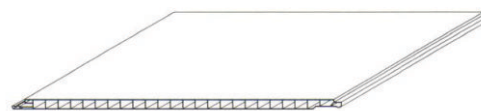
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping



Range: **30D** (Camfly Ceiling Panel)

Width: 300mm Thickness: 10mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

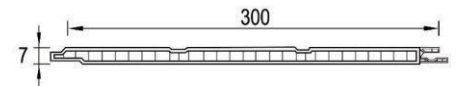
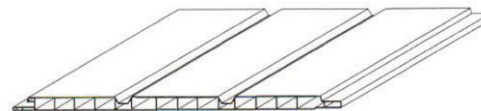
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping



Range: **30N** (Marcam Ceiling Panel)

Width: 300mm Thickness: 7mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

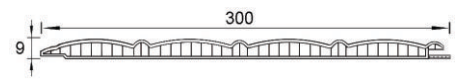
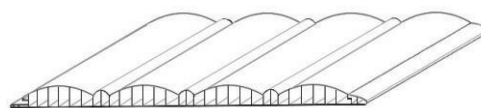
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping



Range: **30C** (Camfly Ceiling Panel)

Width: 300mm Thickness: 7mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

Available: Matt White, Normal Printing (Matt / Gross)



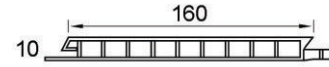
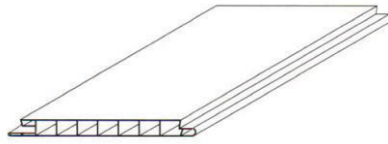
Range: **30W** (Camfly Ceiling Panel)

Width: 300mm Thickness: 9mm  
Length: 3.0/3.3/3.7/4.0/4.3/4.7/5.0/5.3/6.0 m

Available: Matt White

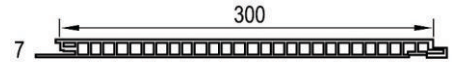
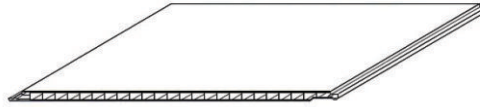
Weight:  $\pm 2.25\text{kg}$  per  $\text{m}^2$  for 25B/M/C/CL;  $\pm 2.65\text{kg}$  per  $\text{m}^2$  for 30D;  $\pm 2.35\text{kg}$  per  $\text{m}^2$  for 30N/C;  $\pm 2.20\text{kg}$  per  $\text{m}^2$  for 30W.

Special Sizes are available on request, minimum quantities can apply to non-standard sizes.



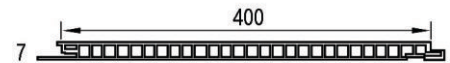
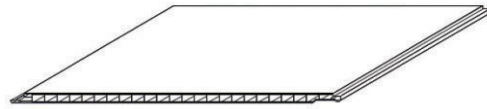
Range: **16A** (Camfly Wall Panel)  
Available: Matt White, Normal Printing (Matt / Gross)

Width: 160mm Thickness: 10mm  
Length: 2.8/3.0/6.0 m



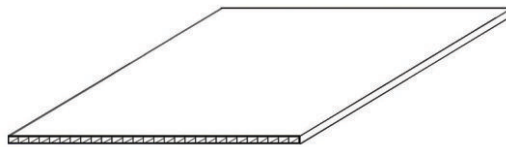
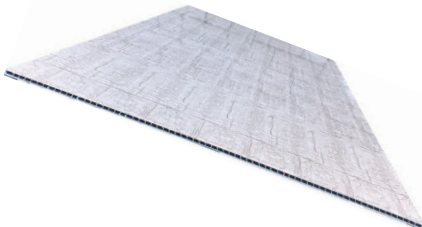
Range: **30A** (Camfly Wall Panel)  
Available: Matt White, Normal Printing (Matt / Gross), Hot Stamping

Width: 300mm Thickness: 7mm  
Length: 2.8/3.0/6.0 m



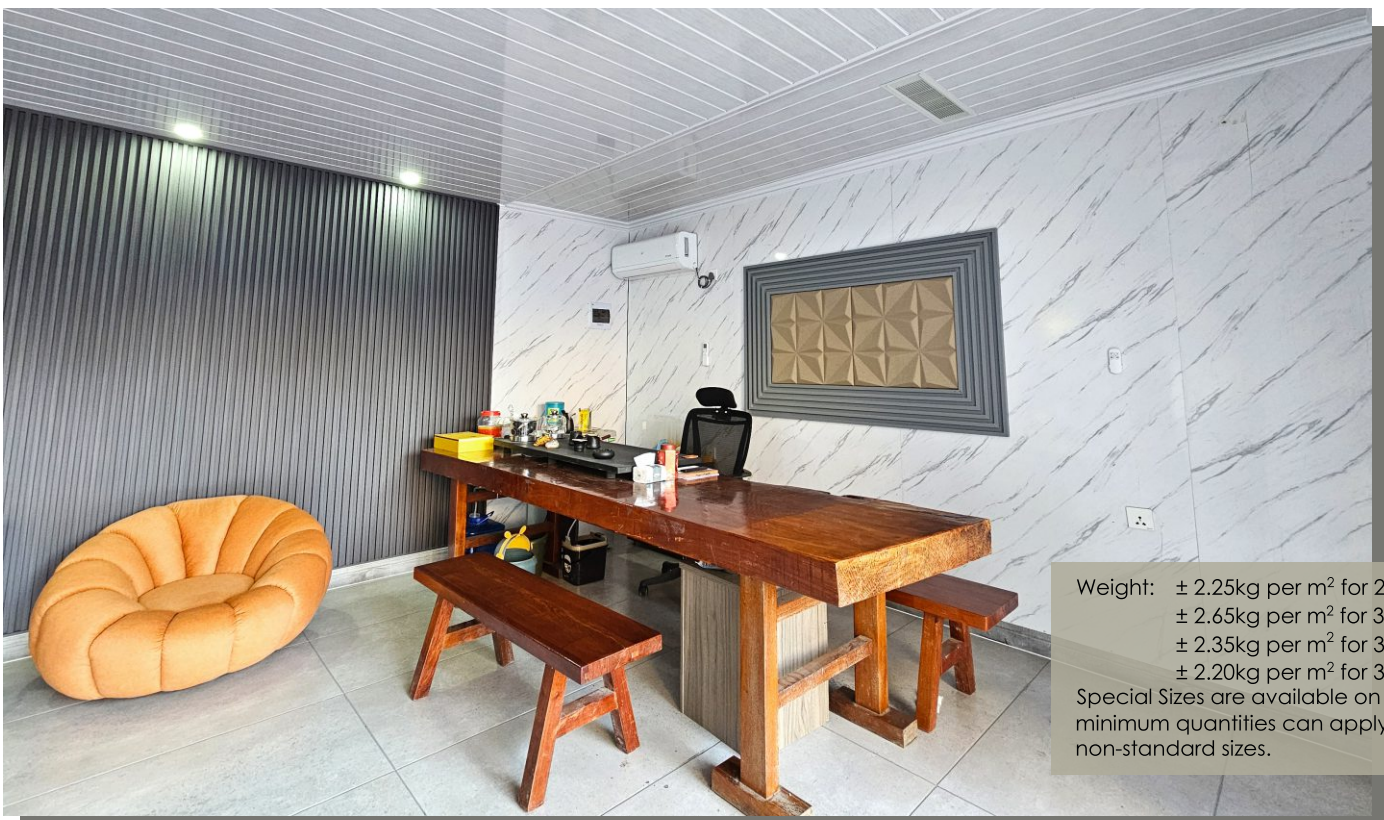
Range: **40A** (Camfly Wall Panel)  
Available: Matt White, Lamination

Width: 400mm Thickness: 7mm  
Length: 3.0 m



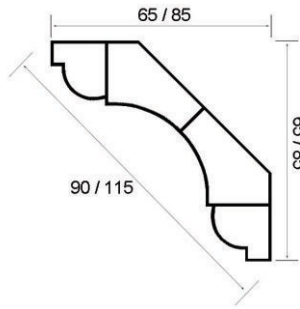
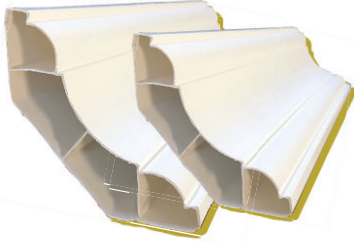
Range: **60S** (Camfly Suspended Ceiling)  
Available: Matt White, Hot Stamping

Width: 595mm Thickness: 7mm  
Length: 1.195m



Weight:  $\pm 2.25\text{kg per m}^2$  for 25B/M/C/CL  
 $\pm 2.65\text{kg per m}^2$  for 30D  
 $\pm 2.35\text{kg per m}^2$  for 30N/C  
 $\pm 2.20\text{kg per m}^2$  for 30W.  
 Special Sizes are available on request,  
 minimum quantities can apply to  
 non-standard sizes.

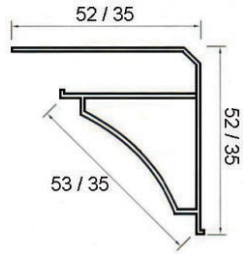
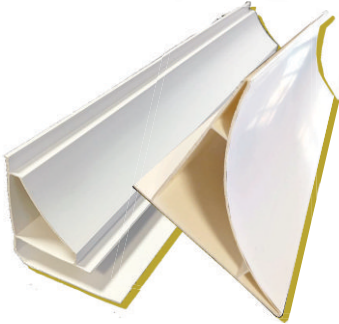
Length: 4.0m



**Large Top Corner**

Code: **S2-LX** (115mm)  
Code: **S2-L** (90mm)

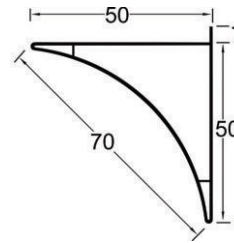
Available: Matt White



**Top Corner**

Code: **F2-L** (53mm), **F3-L** (35mm)

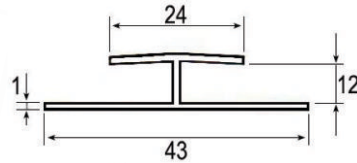
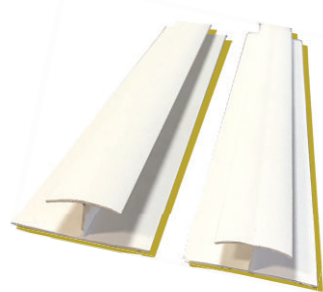
Available: Matt White



**Top Corner**

Code: **T1-L**

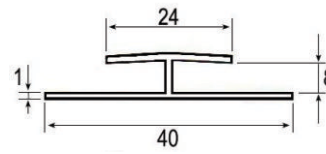
Available: Matt White



**Connective Jointer (Medium)**

Code: **H-LX**

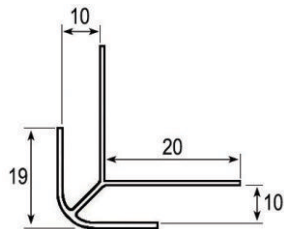
Available: Matt White



**Connective Jointer (Small)**

Code: **H-L**

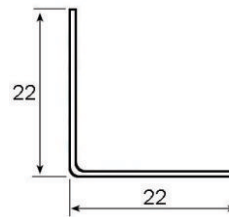
Available: Matt White



**External Jointer**

Code: **Y-L**

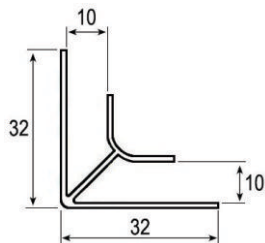
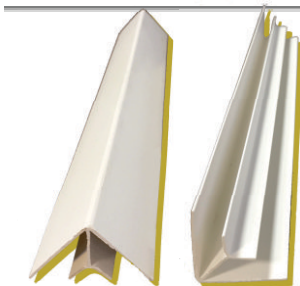
Available: Matt White



**Corner Protector**

Code: **V-L**

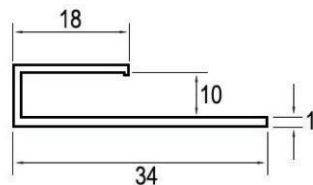
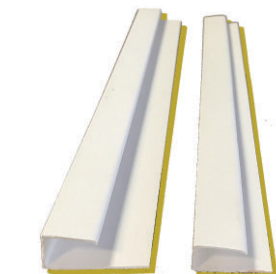
Available: Matt White



**Inner Jointer**

Code: **W-L**

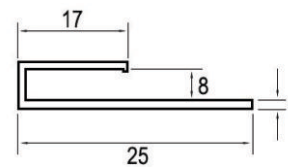
Available: Matt White



**Edge Trim (Medium)**

Code: **7-LX**

Available: Matt White

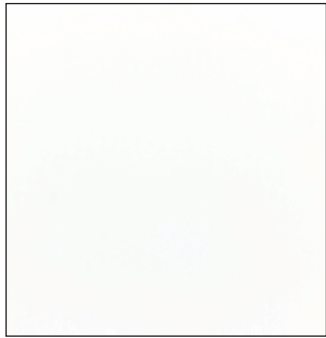


**Edge Trim (Small)**

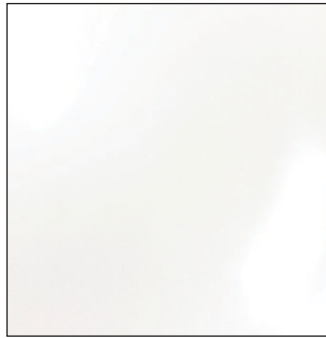
Code: **7-L**

Available: Matt White





Matt 25B00



25B01



25B02



25B03



25B06



25B10



25B11



25B13



25B15



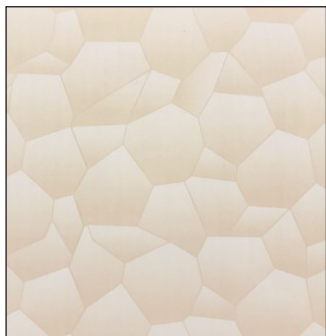
25B17



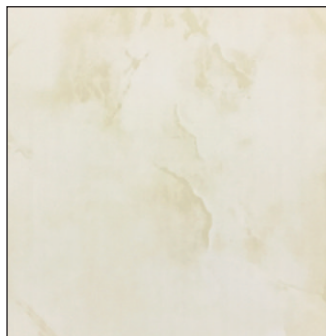
25B18



25B23



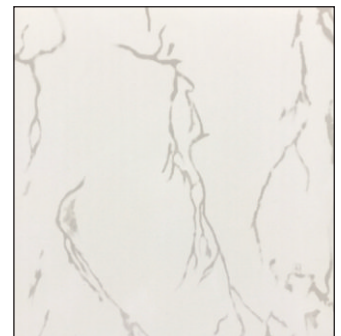
25B24



25B25



25B26



25B27



25B30



25B31



25B32



25B34

Camfly Ceiling products are available in a wide variety of colours and designs. The new products will be continuously updated.

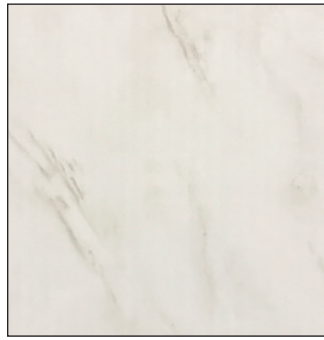
PLEASE NOTE: The Litho printed colours represented here may vary from the actual Camfly Ceiling Products colours.

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25B35



25B36



25B37



25B38



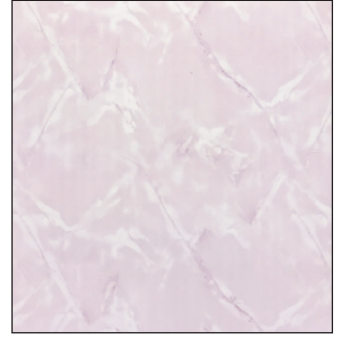
25B39



25B40



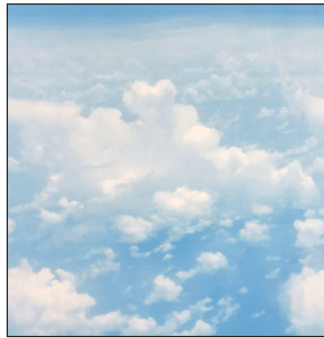
25B41



25B42



25B43



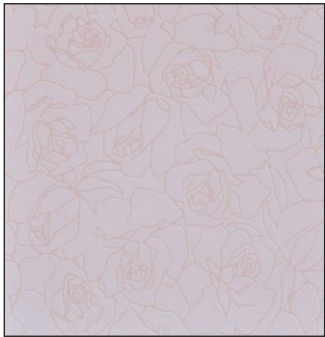
25B45



25B101



25B102



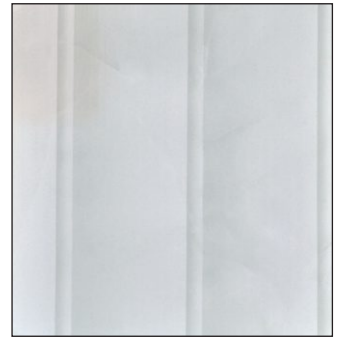
25B103



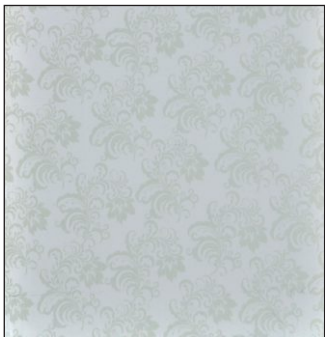
25B105



25B106



25B109



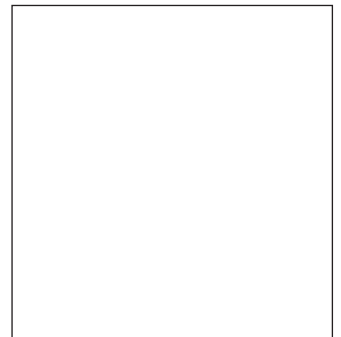
25B110



25B111



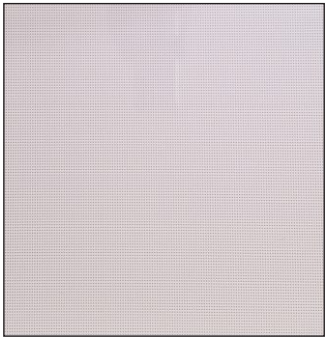
25B112



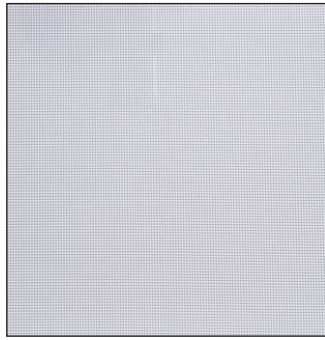
Camfly Ceiling products are available in a wide variety of colours and designs. The new products will be continuously updated.

PLEASE NOTE:

In the case of harsh hygienic conditions or moist dwelling environments, there is the probability that a discolouration or stain occurs on the surface of matt white panel that is less easily cleanable without any protective layer.



25B04



25B05



25B113



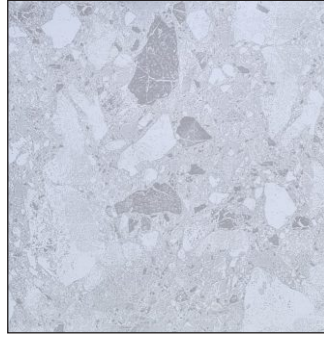
25B114



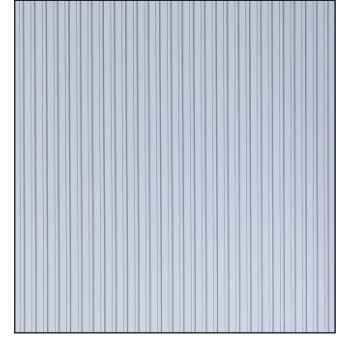
25B115



25B116



25B117



25B118



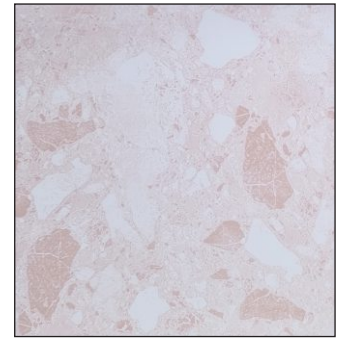
25B119



25B120



25B121



25B122



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Printing

## Grooved Panels



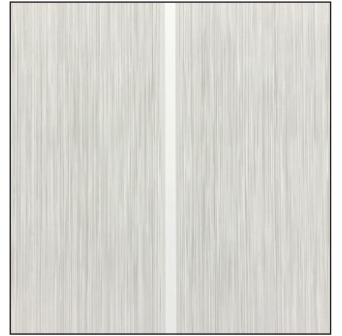
Matt 25C00



25C01



25C03



25C13



25C23



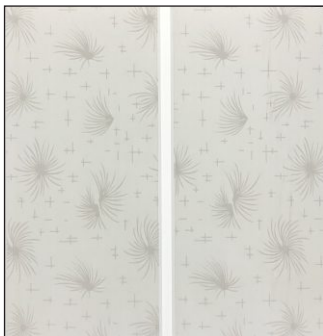
25C25



25C31



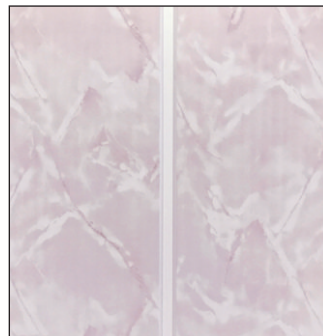
25C32



25C34



25C37



25C42



25C111

\* All colours from Range 25B and 25M are available to be printed in the Range 25C (Grooved panels).





16A01



16A13



16A25

**PVC Wall Panels**  
(Range 16A)  
160mm X 10mm

\* All colours from Range 25B are available to be printed in the Range 16A(Wall panels).



30A18



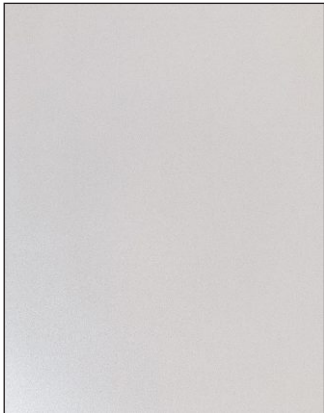
30A23



30A37

**PVC Wall Panels**  
(Range 30A)  
300mm X 7mm

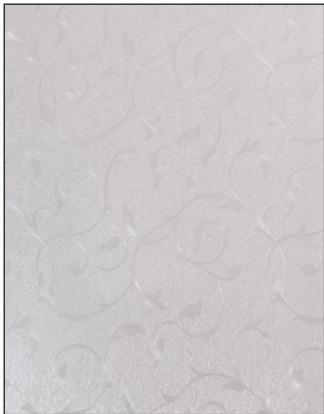
\* The Range 30A (Wall panel with size 300mm x7mm) is available for normal print, and for hot stamping (all colours/designs from range 30D ) as well.



40A801



40A802

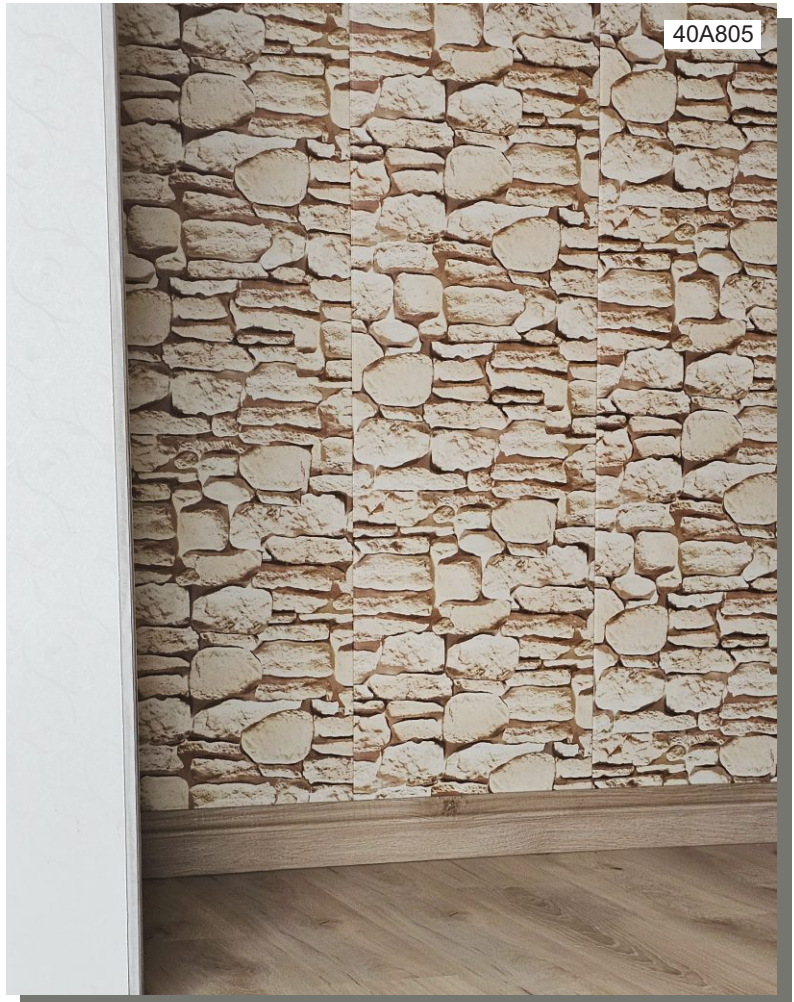


40A803



40A806

**PVC Luxury Wall Panels**  
(Range 40A)  
400mm X 7mm

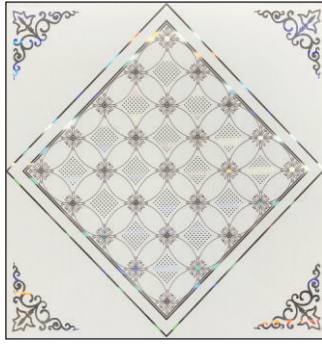


40A805

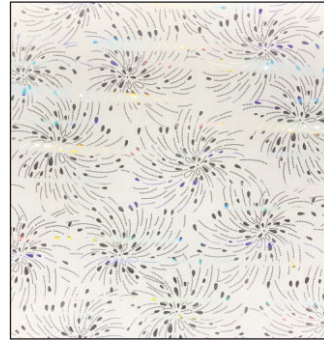
Hot Stamping



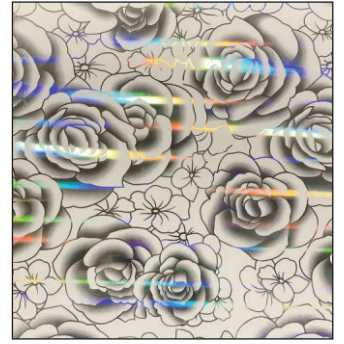
30D51



30D52



30D53



30D55



30D56



30D57G



30D57Y



30D58



30D59



30D60



30D61



30D63





30D64



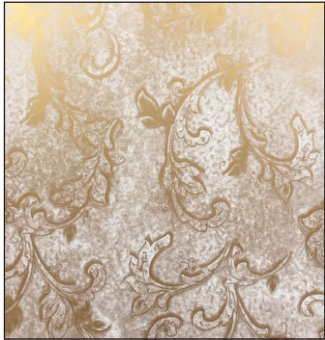
30D65



30D66



30D67



30D68



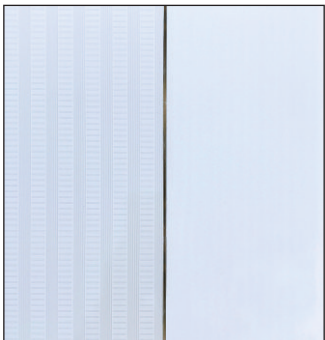
30D69



30D70



30D71



30D72



30D73



30D74



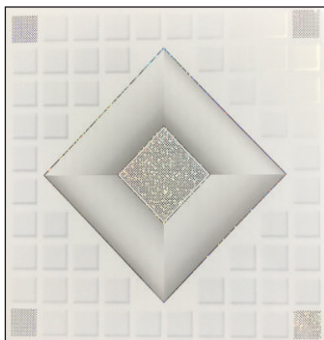
30D75



30D76



30D78



30D79



30D80



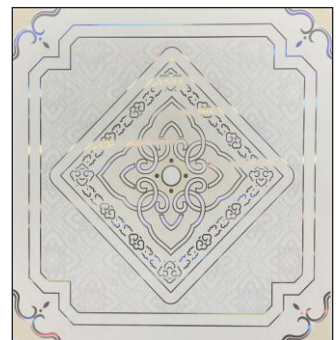
30D81



30D82



30D83



30D85

The Range 30D (ceiling panel with size 300mm X 10mm) is available for hot stamping, and for normal print as well. All normal printed finish are available to be matt or gloss

## Hot Stamping



30D86



30D88



30D89



30D91



30D92



30D93



30D95



30D96



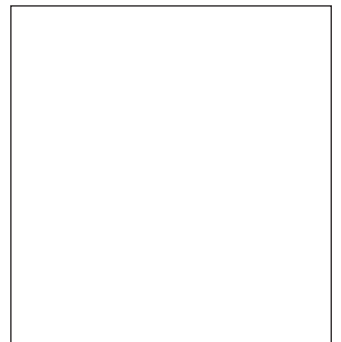
30D97



30D98



30D99



## Printing



30D200



30D201



30D202



30D203

The Range 30D (ceiling panel with size 300mm X 10mm) is available for hot stamping, and for normal print as well.  
All normal printed finish are available to be matt or gloss

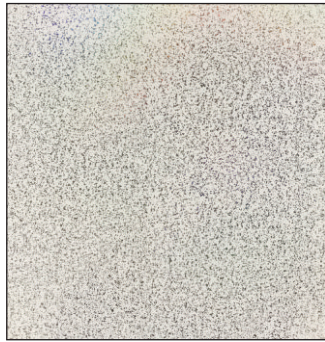
Camfly Ceiling products are available in a wide variety of colours and designs. The new products will be continuously updated.

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25M01



25M02



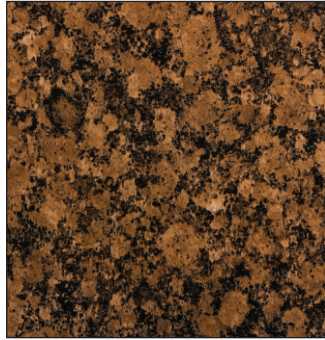
25M03



25M04



25M05



25M07



25M10



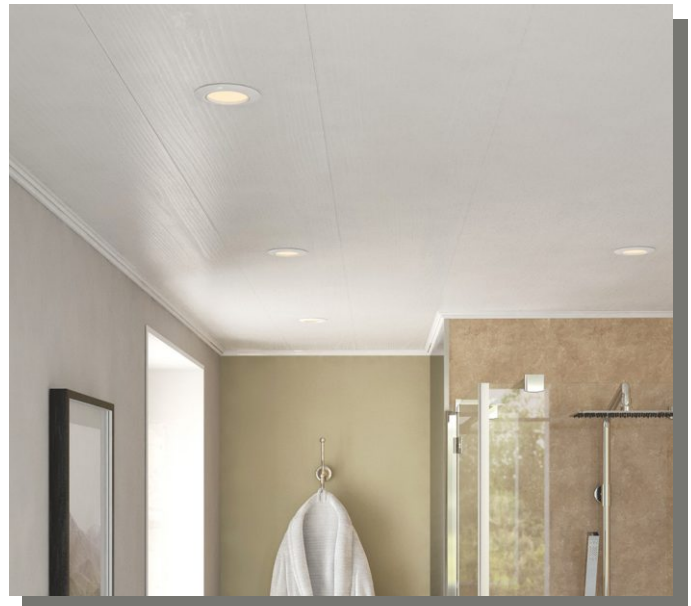
25M16



25M17



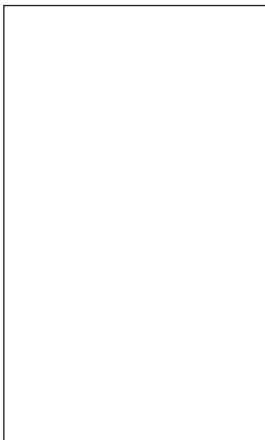
25M18



## PVC Suspended Panels

(Range 60S)

595mm X 1195mm X 7mm



Matt White 60S000



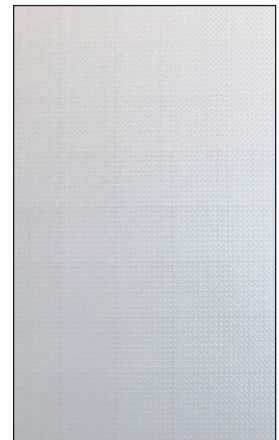
60S026



60S101



60S102



60S103

Camfly Ceiling products are available in a wide variety of colours and designs. The new products will be continuously updated.

PLEASE NOTE: The Litho printed colours represented here may vary from the actual Camfly Ceiling Products colours.

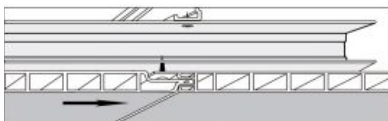
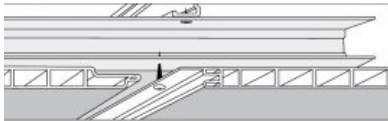
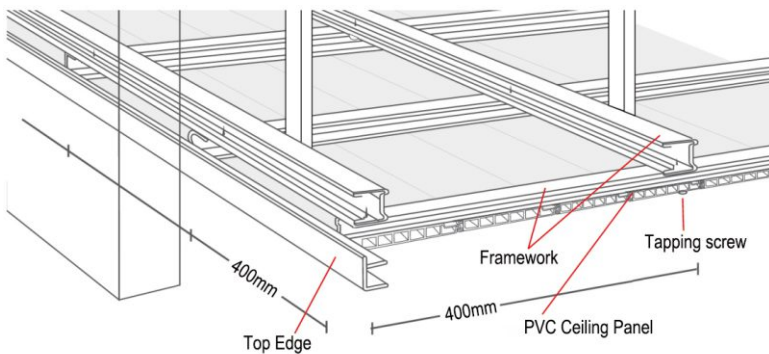
Visit your nearest Camfly stockist to confirm your final selection.

For colour consistency please ensure that batch number correspond on a particular job.

## INSTALLATION GUIDE

The ceiling panels can be fitted together with a tongue and groove system, and are fixed on a lip that is concealed when the next panel is fitted. Fitting can be to an existing surface if it is relatively flat and not likely to break away. Fixing can be done with self-tapping screws. PVC ceiling panels can be stuck to any surface including uneven surfaces, with little or no preparation required. There are a range of finishing accessories such as edge trims, internal and external corners, cornice trims and skirting boards that ease the task of fitting and ensure a perfect finish, whatever your room is shaped. PVC ceiling panels can be easily cut or trimmed using a sharp utility knife, hand saw, table saw, portable circular saw or jig saw.

PVC panels are normally fixed vertically i.e. from floor to ceiling, however panels may also be fitted horizontally if the shape of the room makes this an easier option. Similarly, ceiling panels can be run in either direction. Of course, you may have a preference as to which way you would like run the panels for visual effect. The PVC panels are easily fixed to almost every surface. Depending on the type of wall or ceiling you can choose different types of fitting. Clean and quick installation, which does not require special tooling and may be performed by non-experts.



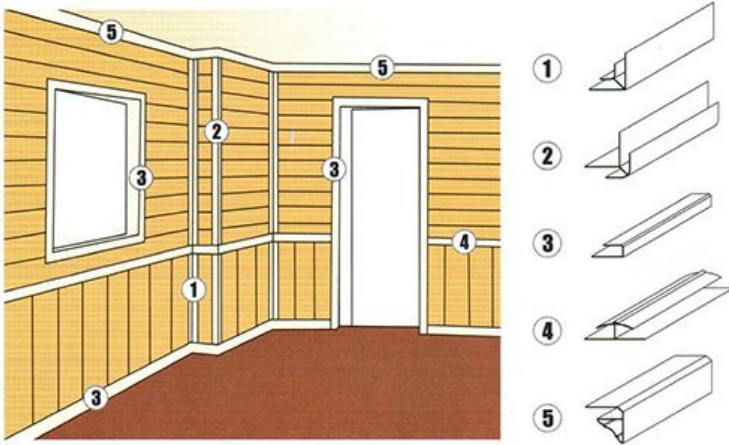
- Build a light framework of galvanized steel or hard wood profiles
- Ensure that the framework must be leveled or horizontal in one area
- Make sure your bracing (wooden framework) is 400mm maximum apart
- After completing the framework, start to fix the PVC Corners (Top Edge) on the wall under the framework
- Fix ceiling panels onto wooden bracing or galvanized steel with a self-tapping screw while inserting into the PVC Corners
- It does not require sealants, as the panels fit by pressing tongue and groove, and the fixing screws are hidden
- Installation direction will be contrary to the direction of ceiling panels
- Ceiling panels must lay in the same direction as the main trusses
- Make sure the screw head fastens properly and flush with the groove of the Ceiling Panel
- Clip the second panel with the tongue onto the groove (side notch) of the first panel

- Knock the panel using your hand palm at side to secure close fitment
- Do not carry on until the panel is fitted correctly
- Continue these steps until you hit the end of the ceiling
- When at the end of the ceiling, cut the panel in the length with a sharp utility knife to fit the last piece
- Dust ceiling with a cloth after fitment is done



## INSTRUCTIONS FOR PVC WALL PANELS

### Installation Instructions:



Before installation, all the profiles need to be checked to make sure they have the same length or lengths corresponding to the wall panel's surface.

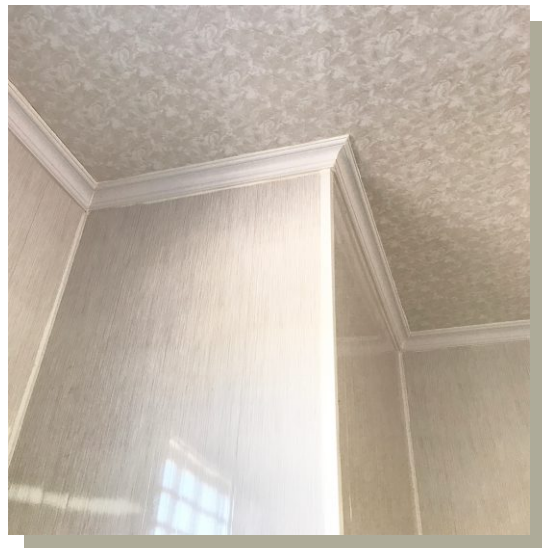
In cases of damp, damaged or uneven walls we recommend the use of treated timbers for framework.

#### Necessary Materials for The Installation:

PVC Wall Panels, PVC Top Corners (⑤ F2-L), PVC Connective Jointers (④ H-L), PVC End Trims (③ 7-L), PVC Internal Jointers (② W-L), PVC External Jointers (① Y-L), Stalls for Wood, Plastic Dowels, Wooden Branderings, Nails and Screws.

### Layout:

- For wall panels or ceiling panels, the spots of the dowels are traced out on masonry in order to fix the wooden branderings or galvanized steel, having the dimension 15mm x 50mm. The distance between the dowels is of 120mm - 150 mm and between the wooden branderings of 350mm - 400mm (for the lower part of the walls or for the ceilings we recommend the distance between the wooden branderings to be max. 250mm – 300mm).
- The fixing of the wooden branderings in dowels is made with screws for wood having the dimension 3,5 – 4 x 50 - 60 mm.
- If the masonry allows it and if you want the panel to be glued on the wall, bury the strip boards inside the masonry.
- PVC End Trim is placed along the installation space (floor, ceiling) parallel to the wooden framework.
- Begin the installation from one of the edges, select the first wall-panel and trim off the tongue on the left-side of the panel and



cut to length. Place the wall panel onto the framework into the PVC End Trim with the front of the panel towards you and the groove-side to the right. Fasten the panel on the groove-side by the end lip using screws to fix it entirely to the framework. Select the next panel, put the tongue in the groove until you have a good fit, and fasten the panel again on the groove side using the same method as before, and continue this way until you hit the edge or until the corner of wall.

- The interior and the exterior corners are executed with PVC Internal Jointers or External Jointers, as necessary. At corners, cut the last piece of panel near the wall of an interior cell, and apply the external or the internal corner on it.

- When completing the installation, introduce the End Trim at the end, this finishes the work.

In case of a flat and even wall, a simple adhesive can be used without having to use a wooden framework. The PVC panels even can be glued straight onto existing ceramic tiles, without removing these tiles. Painted surfaces should be suitably prepared before applying any adhesive.

#### What you have to remember:

- ✓ Use the panel for indoor uses only. The ceiling panels shall not be exposed to direct sunlight.
- ✓ It is forbidden to kick with hard elements. It is forbidden to clean the surfaces with abrasive materials or with solvents.
- ✓ The electrical equipment need to be properly fixed before installing the ceiling panels.
- ✓ The ceiling panels need to be checked prior to installation. Ensure that you are using the same batch of ceiling panels in one area.
- ✓ When using the ceiling panels in high back-pressure from rooftop, please more properly fix panels and strongly fasten screws, or use silicon sealant in the groove on the back of the lip.
- ✓ Before fitting panels around sources of heat, for example radiators or fire places, make sure the temperature level doesn't exceed allowed level of 60°C.

# SPC FLOORING

The *New* "Upgraded" Classic & Ideal Flooring



## 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.

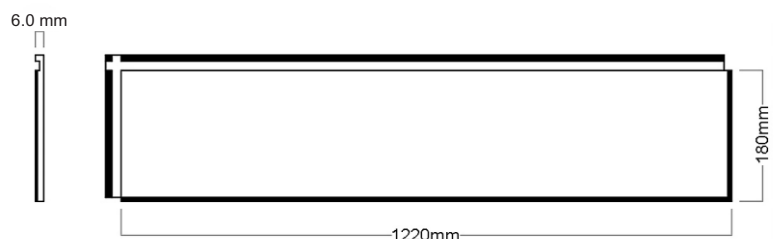
### What is SPC Flooring?

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.

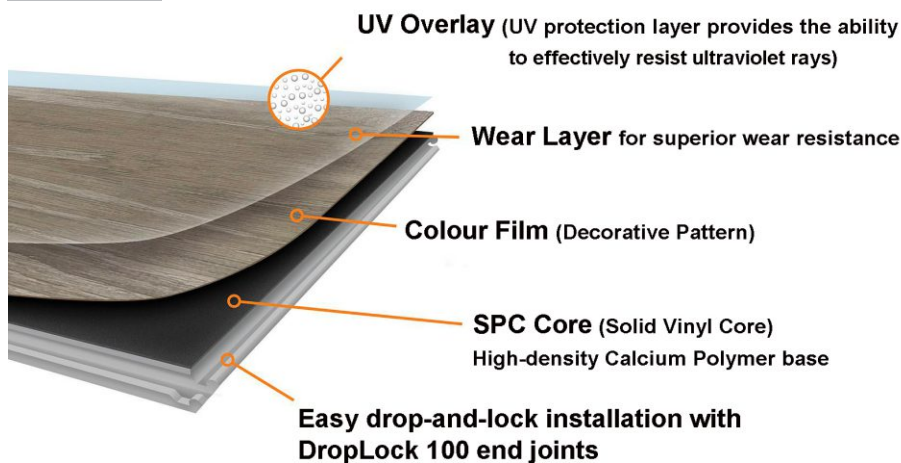
SPC flooring is the newest generation of rigid core luxury vinyl flooring with a floating system & using click & lock joint, can be easily installed on different type of floor base.

### Specifications of Camfly SPC Flooring:

- Thickness: 6.0 mm
- Size: 48" x 7" (1220 mm x 180 mm)
- Wear Layer: 0.3 mm
- Weight: 2.786 kg / per sheet (12.68 kg / per sqm)
- 7 sheets per Box



### 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.

#### ❖ 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.



Click install



Micro level



EN 13893:2002



EN13501-1:2007



Water-proof



Wear-resistant



# 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?

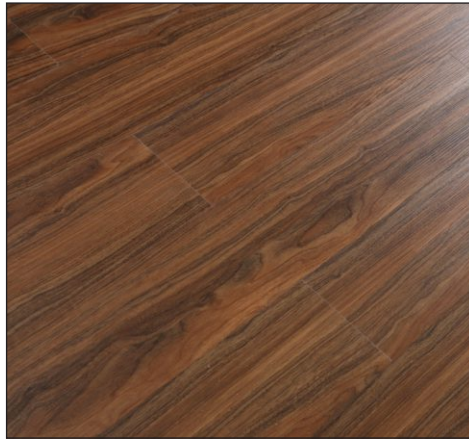
SPC rigid vinyl flooring is 100% Eco-friendly because it uses environment friendly formula. It does not contain heavy metals, phthalate, methanol, and other harmful substances. It complies with EN14372, EN649-2011, IEC62321, GB4085-83 standards. It is becoming very popular in Europe, other well developed 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.





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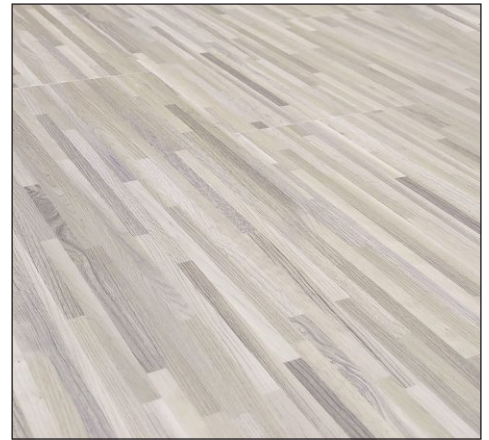
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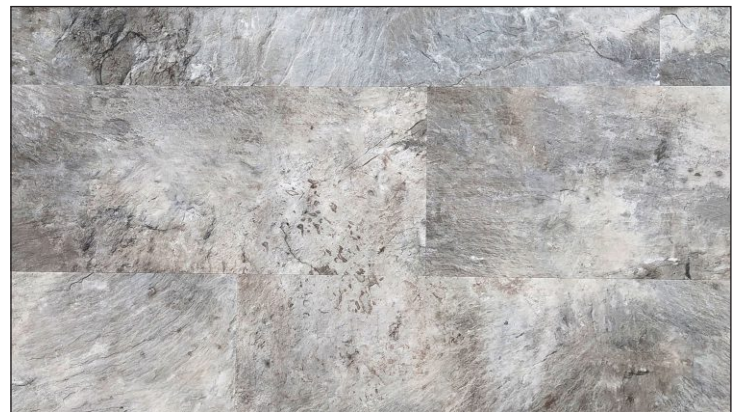
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- *Camfly SPC Rigid Vinyl Flooring will be available in a wide variety of colours and designs.*
- *Colors as shown in the catalogue may vary from the actual colors of the products.*
- *Visit your nearest Camfly stockist to confirm your final selection.*



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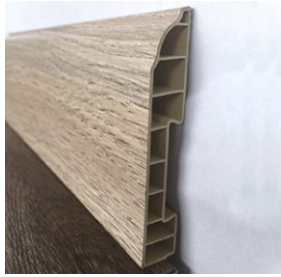


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## ◆ ACCESSORIES



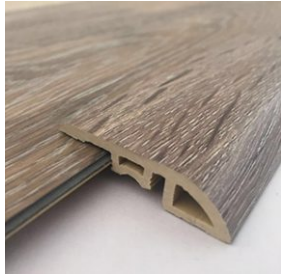
### Skirting 80-1

✧ 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

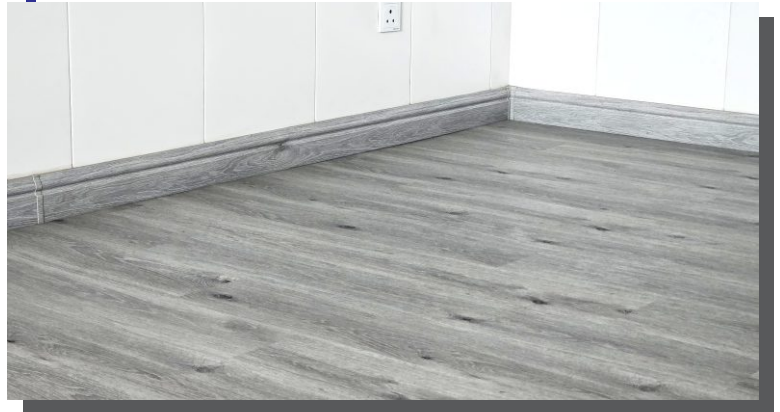
T-Moldings are commonly used in doorways to join two flooring with same level.



### Underlayment

✧ Size: 16900mm x 1100 mm x 1.5 mm

Underlayment (EVA) 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

1. Concrete (or Wooden) subfloor must be clean, dry and structurally sound.
2. The installation of the SPC flooring requires a higher level of flatness of the subfloor. It is advisable to do self-leveling cement job before installing the SPC flooring for uneven subfloor. Concrete (or Wooden) subfloors should be flat and leveled with a tolerance level of 1.0 mm only per 3.3 meters radius.
3. Concrete subfloor must be fully cured for at least 60 days prior to SPC flooring installation.
4. All necessary subfloor patching must be done with a non-shrinking, water-resistant filler.
5. Something like carpet, cushion vinyl, polish, paint, dirt and particle should be removed from the job surface.
6. Maintain the room temperature above 15°C before installation.
7. Check whether the doors can be still opened or closed after flooring has been installed (minimum 1 cm).

### KEY INSTALLATION CONSIDERATIONS

- a. Use an underlayment (1.0/1.5 mm) rather than installing the SPC flooring directly on the substrate/subfloor. Underlayment is not allowed to be more than one layer/sheet. Any rubber mats or glue cushions are prohibited from replacing underlayment.
- b. Do not install the SPC flooring over your existing flooring, tile, cushion vinyl, carpet or mat, as SPC flooring cannot effectively bridge over or smooth out substrate imperfections in the way that thicker, inflexible floor coverings can. If surface is flat and leveled, and has no embossing, and grout lines are very thin, the tile floor can be used for a proper substrate.
- c. Should absolutely never ignore expansion space throughout installation of the SPC flooring. Allow a minimum 6.0 mm expansion gap around the entire perimeter of the room and all vertical obstructions. Large spans exceeding 6 m in the SPC flooring width, should require the addition of internal or field expansion. This can be accomplished by using spacers, such as small T-moldings. If installing the SPC flooring multiple rooms it is highly recommended that T-moldings be used to separate rooms.
- d. Never nail, screw or glue the SPC flooring down, as well as any other fixture.
- e. Do not install the SPC flooring in areas that are permanently exposed to the sun.
- f. Ensure that all installing products must be in the consistent batch number.
- g. Position the SPC flooring 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.

## ◆ SITE CONDITIONS

- a. It is advisable for any wallpanel or partition to be installed at first before install the SPC flooring. During the period of installation, covering is required to protect the completed flooring.
- b. If the condition of subfloor is not well prepared, any particles trapped underneath will cause lumps and bumps on the SPC surface. This will cause serious flooring issues over time and can even lead to rip and tear of SPC flooring parts.
- c. All base cabinets must be installed prior to installing the SPC flooring. Do not install base cabinets or island cabinets on top of the SPC flooring.
- d. Heavy furniture, sands or any sharp objects will leave scratches and abrasion on SPC flooring surface. Extra care is needed when it comes to contact with sharp and abrasive objects.

## ◆ INSTRUCTIONS

01



### SET SPACERS

Create the required expansion space between planks and perimeter walls using 9.5mm spacers on short and long ends of plank. For rooms wider than 6m, the 6mm expansion spacers should be used until installation is complete.

02



### INSTALL 1ST PLANK

Position the first plank against the 9.5mm wall spacers along the starting wall beginning at the corner of the room. Tongue side of plank should be facing the starting wall.

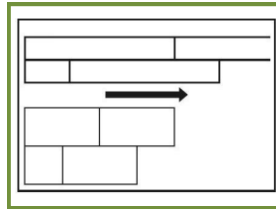
03



### 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 200mm 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.

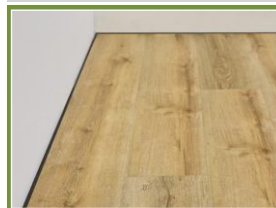
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### INSTALL REMAINING ROWS

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

	Camfly SPC Flooring	Laminated Flooring	Vinyl (LVT) Flooring	Ceramic Tiles
Waterproof	✓	N/A	✓	✓
Fire Resistant	✓	N/A	✓	✓
Eco-friendly	✓	N/A	N/A	N/A
Wear Resistant	✓	N/A	✓	✓
Fouling Resistant	✓	✓	✓	✓
Dent Resistant	✓	✓	N/A	✓
Slip Resistant	✓	N/A	✓	N/A
Stability & Sturdiness	✓	✓	N/A	✓
Easy & Fast Installation	✓	✓	N/A	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





## PVC CEILING & SPC FLOORING

16 Years of Manufacturing Experience in South Africa

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