

# Perfecto

# Floor Changer

FLAME-RETARDANT AND  
SMOKE SUPPRESSION  
**IMO FLOOR**





















1463/21



Working in partnership with  
F. Ball and Co. Ltd.  
[www.f-ball.com](http://www.f-ball.com)

## Product Performance

CHARACTERISTICS	TEST METHOD	RESULT
 Overall thickness	ISO 24346 GB/T 4085	Nominal value +0.13mm -0.10mm
 Performance classification	EN 685	
 Total mass per unit area(average)g/m <sup>2</sup>	ISO 23997	Nominal value +13% -10%
 Side length Squareness & Straightness	ISO 24342	Deviation ≤0.15%→0.5mm Max. ≤400mm : ≤0.25mm >400mm : ≤0.35mm
 Peeling strength of layers	EN 431 GB 11982.1	Pass
 Shear forces of layers	EN 432	Good
 Residual indentation after Static load	ISO 24343-1 EN 433 GB/T 4085	≤0.1mm
 Dimension stability after exposure to heat curling after exposure to heat	ISO 23999 GB/T 4085	≤0.25% Curling ≤2mm

CHARACTERISTICS	TEST METHOD	RESULT
 Flexibility - 20mm mandrel	ISO 24344	No Damage
 Wear resistance	EN 660-2 ASTM F510	XX ≤2.0mm <sup>3</sup>
 Toxic	EN 71-3 GB/T 18586	Complies
 Colour fastness to light	ISO 105-B02 GB/T 4085 ASTM F1515	6 Minimum
 Reaction to fire	ISO 11925-2 ASTM E662 ASTM F1514	NFPA Class B Bfl-s1
 Slip resistance	EN 13893 DIN 51130	R9
 Effect of castor chair	ISO 4918	≤25000 cycles
 Resistance to chemicals	ISO 26987 ASTM F925	Not affected
 Effects of stains	ISO 26987 EN 423 ASTM F925	Not affected

Specification is subject to be changed without notice

## DIMENSIONS

### Planks

152.4mm x 1219.2mm  
177.8mm x 1219.2mm  
228.6mm x 1219.2mm

### Tiles

304.8mm x 304.8mm  
457.2mm x 457.2mm  
304.8mm x 609.6mm

## THICKNESS

### Planks & Tiles

2mm thick with 0.50mm wear layer  
2.5mm thick with a 0.70mm wear layer

## COLOURS

### Planks



### Tiles



## Product Structure

### What makes Floor Changer Silicon Crystal Flooring so special?

#### UV COATING

It is made with green UV coating technology, free of volatile organic compounds, and can strengthen the floor surface, scratch resistance and wear-resistance.

#### TRANSPARENT POLYMER FLAME RETARDANT LAYER

It is made of a new environmentally-friendly polymer resin with flame retardant and smoke suppressant additives to provide flame retardant and smoke suppression effects within the floor

#### HD COLOUR FILM

High definition moulding process creates a depth of realistic texture and colours can be customized to suit individual client requirements

#### POLYMER FLAME RETARDANT BASE

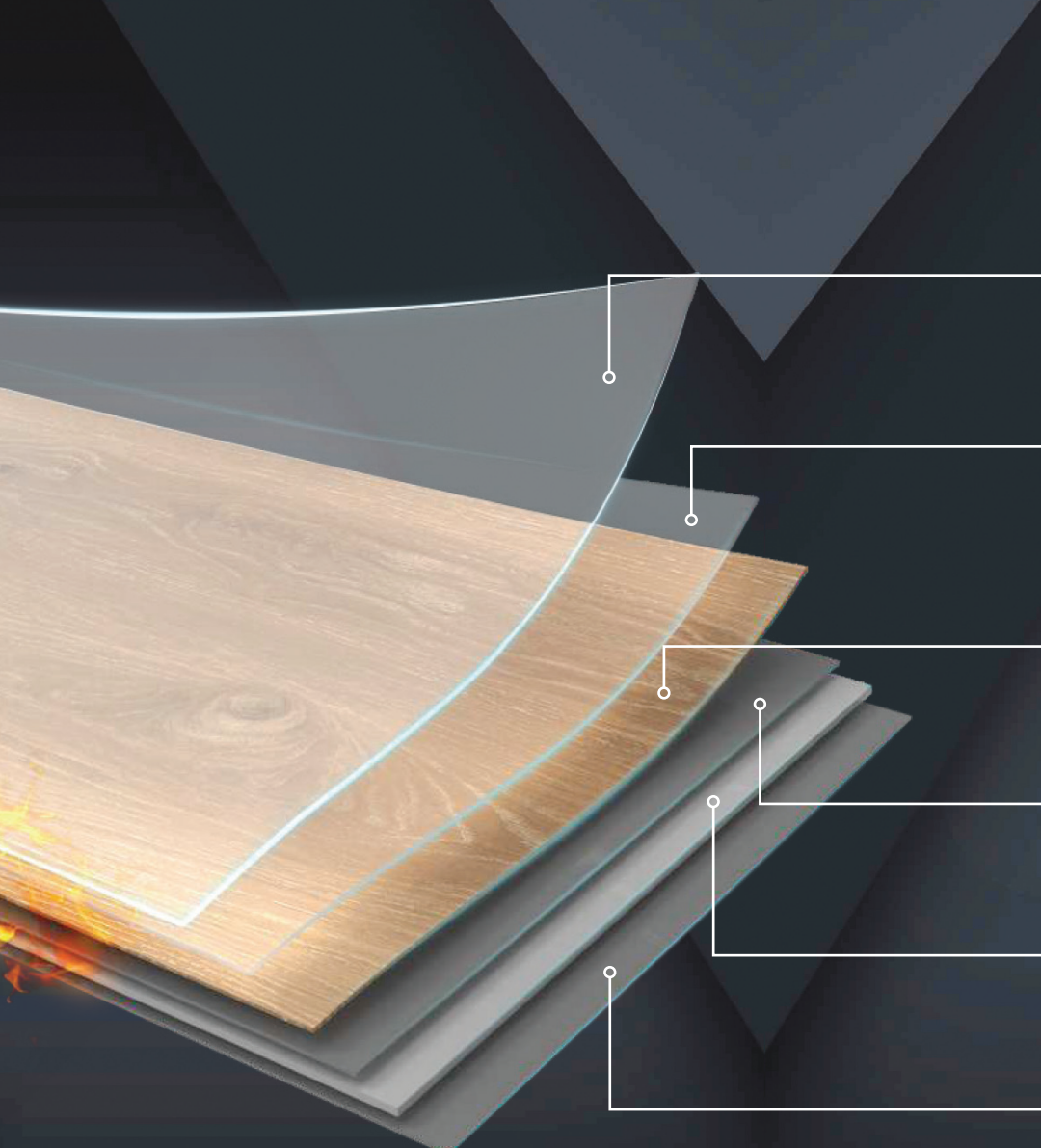
It is made of new environmental polymer materials combined with inorganic fillers of different proportions with excellent flame retardancy

#### MIDDLE LAYER

It is made of PVC combined with different proportions of additives to ensure the floor has high hardness and high flame retardant effect.

#### BOTTOM LAYER

It is made of new environmental polymer materials combined with inorganic fillers of different proportions with excellent flame retardancy.



# Floor Changer

When it comes to specifying flame retardant flooring **Floor Changer** by Perfecto is the Number 1 choice.

As one of the market leaders you'll find our flooring gracing some of the worlds finest ships, offices, theatres, retail outlets and leisure spaces proving a key defence against fire, smoke and reducing their spread.

## Key Features

What makes Floor Changer the No.1 Choice of flame retardant, smoke suppression IMO floor.



Environmentally friendly



Recyclable



Formaldehyde Free



Fire Retardant



Wear Resistant



Bacteriostatic & Mold-proof



Slip Resistant



Waterproof



Impact Resistant



Sound Absorbant



Non-toxic & Harmless



Acid & Alkali Resistant



## International Certification

Certified world wide to the most stringent standards.



American Indoor Air Health Emission Standard Certification



Certified by the American Industrial Inspection Authority



Green Building Selected Products



OHSAS 18001



ISO 14001



ISO 9001



European Safety Certification



Certification By Quality Supervision And Inspection Agencies



The Chinese National Standard



China Metrology Accreditation



**2581s**

The smoke density of floor burning is much lower than  $DS \leq 500s$  required by IMO

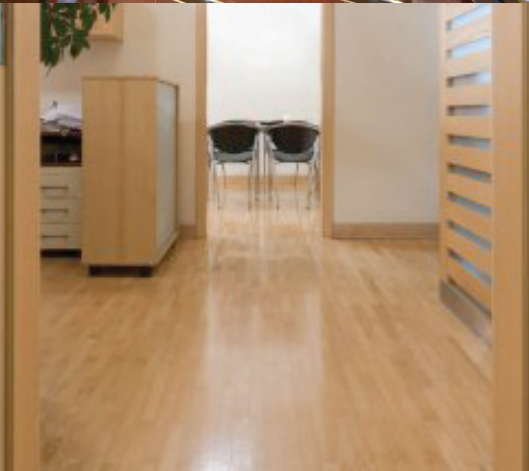
**HCL, SO<sub>2</sub>**

The emission is lower than the prescribed minimum of detection to reduce the risk of suffocation when the fire broke out

**22.1**

The critical radiant heat flux is much higher than 7.0

Flame retardancy and lower smoke emissions create improved evacuation conditions



### Uses and Environments

Flame retardant and smoke suppression flooring is ideally suited to Shipping, Marine, Transportation, and Public buildings such as highrise: Theatres, performing arts centre, conference centre and other enclosed spaces.

The product has good flame retardancy, fire prevention and smoke suppression functionality, which can effectively slow down the spread of fire, reduce the smoke concentration and toxicity of materials when burning, and create conditions for more effective fire evacuation.

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