

# SPM

HANDRAILS &  
WALL PROTECTION

## COMPARISON 2025







# BACTERIOSTATIC PVC MATERIAL

Our PVC product features a **SMOOTH, NON-POROUS SURFACE** that simplifies cleaning and minimizes **DUST** and **GERM ACCUMULATION**.

Also Our product adheres to the **HIGHEST STANDARDS** of **CLEANLINESS** and safety, and our product is suitable for **ISO CLASS 5 CLEANROOMS**. This makes it ideal for applications requiring a sterile environment, such as **DRUG FORMULATION, MEDICAL DEVICE PRODUCTION,** and **RESEARCH LABORATORIES**.

## Test report Cleanroom suitability tests on materials

Customer: Gerflor  
ZI du Bois des Lôts  
26130 Saint-Paul-Trois-Châteaux  
FRANCE

Report No. GE 1903-1106-4

Stuttgart, Germany, December 16, 2019

### 5.1.1.2 Test parameters

For the ball-on-disk test the essential test parameters affecting particulate emission include the **single measuring track s**, the **relative velocity v**, the **normal force F** and the **number of revolutions N**. Standardized sets of stress parameters is formed using these values to facilitate the comparison of results obtained from the various tests.

#### Ball-on-disk test

Set of parameters	s [mm]	v [mm/s]	F [N]	N
ball-on-disk-test				
A13	250	150	3	1500

Figure 6

Defined set of stress parameters; ball-on-disk-test

The amount of stress to be applied to each material pairing is decided upon individually by Fraunhofer IPA on taking into account the quantity of particles generated and the measuring range of the device used in the test.

The following table shows the degree of accuracy achieved when setting the test parameters as well as fluctuations in these parameters which are experienced during the tests.

	Accuracy; maximum variation during test ball-on-disc-test
Normal force F	0.01 N; +/- 3 %
Single measuring track s	0.1 mm; n.a.
Relative velocity v	0.5 mm/s; +/- 3 %
Number of revolutions N	+/- 1 %

Figure 7

Degree of accuracy achieved when setting the test parameters and fluctuations thereof during the test

### 5.3.3.2 Overview of classification results

Load level	Normal force	Decoclean					
		Detected particle size					
		0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm
A13	3 N	2.3	2.8	3.1	3.4	3.7	4.6
Classification relevant to documents:							5

Figure 13

IP Gerflor 10: Decoclean versus stainless steel 1.3541/1.4034  
Overview of classification value attained in accordance with ISO 14644-1

The level of particulate contamination emitted during application of tribological stress on the material pairing **Decoclean versus stainless steel 1.3541/1.4034** lies within the permissible values of the corresponding **Air Cleanliness Class ISO Class 55** in accordance with **ISO 14644-1**.

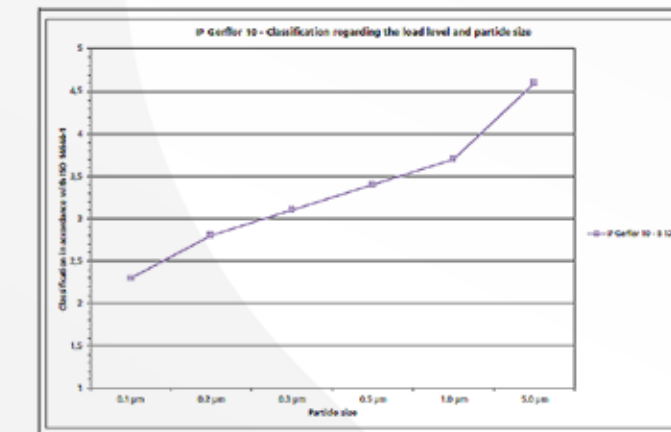


Figure 14

IP Gerflor 10: Decoclean versus stainless steel 1.3541/1.4034  
Classification in accordance with ISO 14644-1 in dependence upon the particle size.





Activités virucides et microbicides des solutions technologiques de décontamination/désinfection  
www.virhealth.fr

GERFLOR

Monsieur Philippe MAGRO

50 cours de la République

69627 Villeurbanne

France

#### Attestation

Je soussigné, Dr Vincent MOULES, agissant en qualité de Directeur Général de la société VIRHEALTH, immatriculée sous le numéro 81204535900013, dont le siège social est situé au 7 rue Guillaume Paradin, 69008 LYON 8EME, France atteste ce qui suit :

Il a été demandé à la société VIRHEALTH S.A.S. de tester l'activité antivirale

Du produit GERFLOR SPM main courante/panneau de protection (Fabricant GERFLOR)

Sur Coronavirus humain HCoV-229E

Pour des temps de contact de 2 et 5 heures

Selon le protocole adapté de la norme ISO 21702 (2019)

RESULTATS : Le produit GERFLOR SPM main courante/panneau de protection présente une efficacité **virucide de 99,96% après 2h et 99,99% après 5h à 20 C sur** Coronavirus humain HCoV-229E selon le protocole adapté de la norme ISO 21702 (2019).

Fait pour servir et valoir ce que de droit.

Fait à Lyon

Le 19/10/2020

VirHealth  
RTH Laennec  
7-11 rue Guillaume Paradin, 69008 Lyon  
France

Dr Vincent MOULES

S.A.S VIRHEALTH au capital de 20 040 euros

SIRET 81204535900013 – R.C.S : Lyon

N°TVA : FR 04812045359

Site Laennec-La Buire, 2ème étage, Bat B, 7-11 rue Guillaume Paradin, 69372 Lyon Cedex 08

# PROVEN VIRUCIDAL ACTIVITY

We believe that every touch counts, especially in healthcare environments. Our handrails are designed not just as support but as a vital line of defense against harmful germs that can spread easily from person to person.

Laboratory tests conducted by expert virologists reveal something truly impressive: our PVC handrails show an outstanding **99.96% EFFECTIVENESS** in covid-19 after just two hours of contact. In a world where pathogens can linger on surfaces, this breakthrough offers peace of mind, ensuring a safer environment for everyone.





# NUCLEAR DECONTAMINATION

**DECOCHOC** and **DECOCLEAN** are advanced wall protection panels that have undergone rigorous testing according to DIN 25415 and ISO 8690 and are designed for environments requiring high levels of hygiene and safety.



## EASY OF MAINTENANCE

The surfaces of these panels are designed for easy cleaning, ensuring that they can be quickly decontaminated after exposure to hazardous materials.



## CHEMICAL RESISTANCE

These panels resist a variety of chemicals, making them suitable for use in diverse environments, including laboratories and industrial settings.



bioquell

100 Quai du Remy - 94380 Suresnes sur Seine  
Tel: +33 (0)1 43 78 11 44 Fax: +33 (0)1 43 78 11 44



Spm

service group

15 rue Isabelle Eberhardt  
B.P. 80081, 93113 Tournai cedex 2  
Tel: +33 (0)3 34 39 40 00

TD041-R&D-003

COMPATIBILITY TEST PROTOCOL/RESULTS

USING BIOQUELL® HYDROGEN PEROXIDE

VAPOUR TECHNOLOGY

Date: 10/05/2011

Document: TD041-003

Document reference: TD041-003-14

TEST METHOD

Samples of materials are placed inside the room, in upright position. The room is sealed. BIOQUELL Z generation is used to carry out the decontamination cycles (see Figure 1). The samples are subjected to 40 consecutive cycles at the three concentrations below:

Cycles at 20g/m³

CONDITIONING (minutes)	VAPORISATION (minutes)	CONTACT (minutes)	ASERATION (minutes)	QUANTITY OF H <sub>2</sub> O <sub>2</sub>
10	50	15	120	1 000 g

Cycles at 15g/m³

CONDITIONING (minutes)	VAPORISATION (minutes)	CONTACT (minutes)	ASERATION (minutes)	QUANTITY OF H <sub>2</sub> O <sub>2</sub>
10	30	15	120	750 g

Cycles at 8g/m³

CONDITIONING (minutes)	VAPORISATION (minutes)	CONTACT (minutes)	ASERATION (minutes)	QUANTITY OF H <sub>2</sub> O <sub>2</sub>
10	20	15	90	400 g

NOTE, the peak concentrations reached during these 40 cycles vary from 600 to 800 ppm.

At the end of each cycle, each sample is visually inspected to detect the least sign of damage and/or discoloration. These samples will be sent back to the customer for an independent inspection.

SAMPLES SHOWING DAMAGE DURING THE FIRST 5 CYCLES ARE NOT RECOMMENDED FOR USE IN A CLEAN ROOM SUBJECTED TO H2O2 TREATMENTS.

Sample	DESCRIPTION	OBSERVATIONS	Occurrence	Weighting
HEF1	Mipolan SYMBIOZ	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF2	DECOCHOC Chalk	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF3	DECOCHOC Poppy	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF4	DECOCLEAN	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF5	Decowood	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF6	Educational Frescoes	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA
HEF7	Kerochoc	No trace of staining or discoloration after 40 cycles of hydrogen peroxide vapour decontamination	NA	NA



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SPM France, 15 rue Isabelle Eberhardt  
 B.P. 80081, 93113 Tournai cedex 2  
 Tel: +33 (0)3 34 39 40 00

這份文件是 Bioquell® 過氧化氫蒸氣技術 (Hydrogen Peroxide Vapour, HPV) 的相容性測試報告, 用於評估不同材料在 40 次消毒循環後是否受到影響 (如變色或起泡)。

## 測試結果重點

- 測試分為三種 過氧化氫濃度:
- 20 mg/m³
- 15 mg/m³
- 8 mg/m³
- 每個測試週期包括:
- 條件設定 (Conditioning)
- 蒸發 (Vaporisation)
- 接觸時間 (Contact)
- 通風 (Aeration)
- 測試後, 所有樣本都經過 視覺檢查, 以確認是否有變色或損壞。

## 測試材料與結果

文件中測試了以下材料:

1. Mipolan SYMBIOZ
2. DECOCHOC Chalk
3. DECOCHOC Poppy
4. DECOCLEAN
5. Decowood
6. Educational Frescoes
7. Kerochoc

## 結果顯示:

所有材料在 40 次消毒循環後, 均未出現變色或起泡的現象。

## 結論

根據此測試, Bioquell 過氧化氫蒸氣技術 (HPV) 不會對這些材料造成明顯變色或損壞, 即使經過長時間多次消毒仍可保持穩定。

□ 注意: 此結果僅適用於測試的特定材料, 對於其他材質 (如織物、木材或塑膠), 仍建議 先在不顯眼的地方測試 以確保不會產生變色或損壞。





# IMPACT AND SCRATCH RESISTANCE

SPM wall protections are meticulously engineered to withstand significant impacts, ensuring durability and **SAFETY** in high-traffic environments.



Our panels can withstand impacts equivalent to the weight of a small car over 320 kg striking at a speed of 3 km/h, demonstrating exceptional **DURABILITY** and **STRENGTH**.



The **HydrX** finish is a unique texturing process that not only enhances the visual appeal of our panels but also provides exceptional scratch concealment.



這份文件是兩種材料的飛鏢撞擊測試 (Dart Impact Testing) 報告，根據 EN ISO 6603-1 標準進行測試，測試結果由 Polytech 提供。

## 測試內容

1. 測試標準：  
EN ISO 6603-1: 評估塑膠材料對飛鏢撞擊的抗性 (衝擊強度)。
2. 測試樣本：  
Endure 材料  
Design (Wood) 材料
3. 測試結果 (50% 失敗能量 E50)：  
Endure:  
平均厚度: 1.85 mm  
衝擊失效能量 (E50): 15J (焦耳)  
Design (Wood):  
平均厚度: 1.90 mm  
衝擊失效能量 (E50): 50J (焦耳)

## 解釋

E50 值越高，表示材料的抗衝擊性能越強。  
• Design (Wood) 材料的 E50 值 (50J) 明顯高於 Endure (15J)，說明其抗衝擊能力更強。  
• 圖表與數據顯示各樣本的撞擊測試結果，包括 成功 (Pass) 與 失敗 (Fail) 標記。

## 結論

Design (Wood) 材料更耐衝擊，適合高強度使用環境。  
• Endure 材料的抗衝擊能力較低，可能更適用於低衝擊應用場合。

此測試可用於選擇適合的材料，特別是在需要耐衝擊性能的場景 (如地板、防護面板等)。



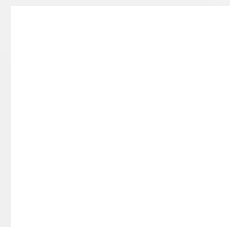


# REACTION TO FIRE Bs2d0

It makes sure that materials help stop the fire from spreading, produce only a small amount of **SMOKE**, and avoid creating **BURNING PARTICLES**. These qualities are very important in buildings with many people, where quick evacuation is needed, and in places where stopping the fire quickly is crucial.



BURNING TEST VIDEO



Dossier P199468 - Document DEC/3 - Page 1/8  
File P199468 - Document DEC/3 - Page 1/8

## CLASSEMENT DE LA REACTION AU FEU CONFORMEMENT A LA NF EN 13501-1+A1 : 2013

Et l'arrêté du 21 novembre 2002 modifié relatif à la réaction au feu des produits de construction et d'aménagement.

### CLASSIFICATION OF REACTION TO FIRE

### IN ACCORDANCE WITH NF EN 13501-1+A1 : 2013

And the French modified Arrêté, dated 21 November 2002, concerning the reaction to fire of construction and fitting-out products.

Commanditaire  
Sponsor

SPM Groupe Gerflor  
16 rue Isabelle Eberhardt  
31019 TOULOUSE CEDEX 2  
FRANCE

Elaboré par  
Prepared by

Laboratoire national de métrologie et d'essais  
Laboratoire de Trappes  
29 avenue Roger Hennequin  
78197 TRAPPES CEDEX  
FRANCE

Nom du produit  
Product name

DECOCHOC ; DECOCLEAN ; DECOWOOD ; DECOTREND

N° de rapport de classement  
Classification report No

P199468

Numéro d'émission  
Issue number

DEC/3

Date de validité  
Date validity

5 ans à compter du 30/03/2020  
5 years as from 2020/03/30

Ce rapport de classement comprend 8 pages et ne peut être utilisé ou reproduit que dans son intégralité.

This classification report consists of 8 pages and may only be used or reproduced in its entirety.

Comportement au feu Fire behaviour	Production de fumées Smoke production	Gouttes enflammées Flaming droplets
<b>B</b>	<b>s2</b>	<b>d0</b>

C'est-à-dire, B-s2,d0  
i.e.

Classement de réaction au feu : Reaction to fire Classification :	<b>B-s2,d0</b>
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Trappes, le 30 mars 2020  
Trappes, 30 March 2020



Le Référent Technique  
The Technical Referent

Mickaël DURAND



# RECYCLING

Our materials are mainly PVC and aluminum, which are **100% RECYCLABLE**. All offcuts are recycled back into the manufacturing process. To reduce **WASTEFUL OFFCUTS**, SPM offers a cutting service (depending on the models) before shipping, ensuring that factory-based pre-cuts help avoid waste at the installation site.

## CERTIFICATE OF COMPLIANCE



**Gerflor**  
**Decochoc**

68449-420

Certificate Number

24 Feb 2015 - 24 Feb 2026

Certificate Period

Certified

Status

UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2012 using a Classroom Environment with an air change of 0.82 hr<sup>-1</sup> and a loading of 94.60 m<sup>3</sup>, and Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2012 using an Office Environment with an air change of 0.68 hr<sup>-1</sup> and a loading of 33.40 m<sup>3</sup>.

Product tested in accordance with UL 2818 test method to show compliance to emission limits on UL 2818, Section 7.1 and 7.2.

### GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC <sup>(A)</sup>	-	0.22	mg/m <sup>3</sup>
Formaldehyde	50-00-0	9 (7.3 ppb)	µg/m <sup>3</sup>
Total Aldehydes <sup>(B)</sup>	-	0.043	ppm
4-Phenylcyclohexene	4994-16-5	6.5	µg/m <sup>3</sup>
Particle Matter less than 10 µm <sup>(C)</sup>	-	20	µg/m <sup>3</sup>
1-Methyl-2-pyrrolidinone <sup>(D)</sup>	872-50-4	160	µg/m <sup>3</sup>
Individual VOCs <sup>(E)</sup>	-	1/2 CREL or 1/100th TLV	-

<sup>(A)</sup> Defined to be the total response of measured VOCs falling within the C<sub>6</sub> - C<sub>10</sub> range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m<sup>3</sup>) fall in the range of 0.5 mg/m<sup>3</sup> or less, as specified in CDPH Standard Method v1.2.

<sup>(B)</sup> The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.

<sup>(C)</sup> Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.

<sup>(D)</sup> Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day.

<sup>(E)</sup> Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

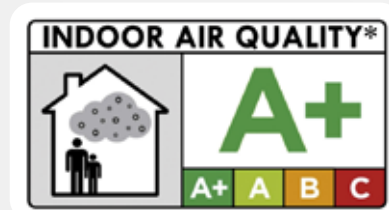






# USER HEALTH & SAFETY COME FIRST

Phthalates is a colorless gas with a strong smell, commonly found in building materials and household products. High levels can irritate the eyes, nose, and throat, cause nausea and difficulty breathing, and long-term exposure is linked to certain cancers. Our products, designed to improve indoor air quality, emit less than  $100 \mu\text{g}/\text{m}^3$  after 3 days according to ISO 16000-6 standards, earning an A+ rating and ensuring no formaldehyde is released.



Prüfbericht über die Dekontaminierbarkeit von  
Oberflächen nach DIN 25415  
sachlich identisch mit ISO 8690

Test report on the ease of decontamination of  
surfaces according to DIN 25415  
which in its contents is equivalent to ISO 8690

Procès-verbal d'essai de l'aptitude à la  
décontamination des surfaces conformément à la  
norme DIN 25415, équivalente à la norme ISO  
8690

Zusammenfassung  
Summary  
Résumé

geprüfter Material:  
Material tested:  
Matériau essayé :

Decochoc - Decoclean

Bewertung der Dekontaminierbarkeit:

Assessment of ease of decontamination:

Évaluation de l'aptitude à la décontamination:

Excellent:  
Très bon

Auftraggeber:

Client:

Client:

Anschrift:

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這份文件是表面去污能力的測試報告，依據 DIN 25415 標準（與 ISO 8690 等效），由 FH Aachen（亞琛應用科技大學）核化學實驗室 出具，測試對象是 Decochoc - Decoclean 材料。

## 文件重點

### 1. 測試標準：

- DIN 25415：德國工業標準，用於評估材料的去污能力。
- ISO 8690：國際標準，與 DIN 25415 內容等效。
- Decochoc - Decoclean（由 SPM - Gerflor Group 提供的材料）。

### 3. 測試結果：

- 去污能力評價：Excellent（優秀）
- 這表示該材料在去污（特別是在核化學和醫療環境中的消毒和清潔）方面表現極佳。

### 4. 測試機構：

- FH Aachen - 核化學實驗室
- 聯繫人：Prof. Dr. Ulrich W. Scherer

### 5. 測試日期：

- 2013 年 12 月 5 日

## 結論

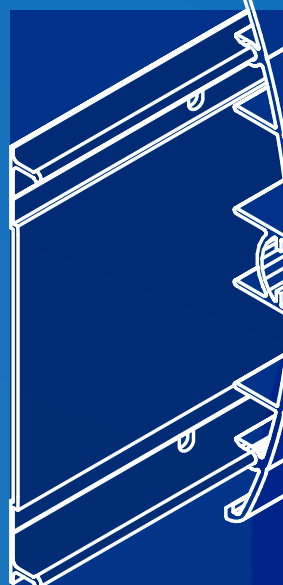
此報告表明 Decochoc - Decoclean 材料在去污和清潔方面表現優異，符合嚴格的 DIN 25415 / ISO 8690 標準，適合用於需要高潔淨度的環境（如醫療、實驗室或無塵室）。



## TRADITIONAL WALL BUMPER

## COMPARISON

## SPM WALL BUMPER



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### DUST ACCUMULATION

The rough surface tends to attract and hold dust more easily.

### MATERIAL

Constructed from a lightweight and delicate plastic, this material may be less durable and prone to damage.

### DESIGN

which can affect the overall appearance and cleanliness of the surface.

### SAFETY CONCERN

There is a risk of injury from potential breakage.



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# PROBLEM OF WOOD WALL BUMPER



## DAMAGE RISK

Wood can get scratched, dented, or damaged by water, especially in busy areas.

## HIGH MAINTENANCE

It needs regular care, like polishing or sealing, to stay in good shape.

## HEAVY AND COSTLY

Wood bumpers can be heavier and more expensive than plastic options, making them harder to install.

## LIMITED PROTECTION

They don't absorb impacts well and can be affected by moisture and weather, plus they may have sharp edges that can pose safety risks.





# BENEFIT OF SPM WALL BUMPER

## THICKNESS OPTIONS

Available in 2.5mm and 3mm thicknesses.

## DURABLE CONSTRUCTION

Made with thick material featuring up to 8 fulcrums for added support.

## HIGH IMPACT RESISTANCE

Can withstand impacts up to 320 kg at a speed of 3 km/h.

## ANTIBACTERIAL PROPERTIES

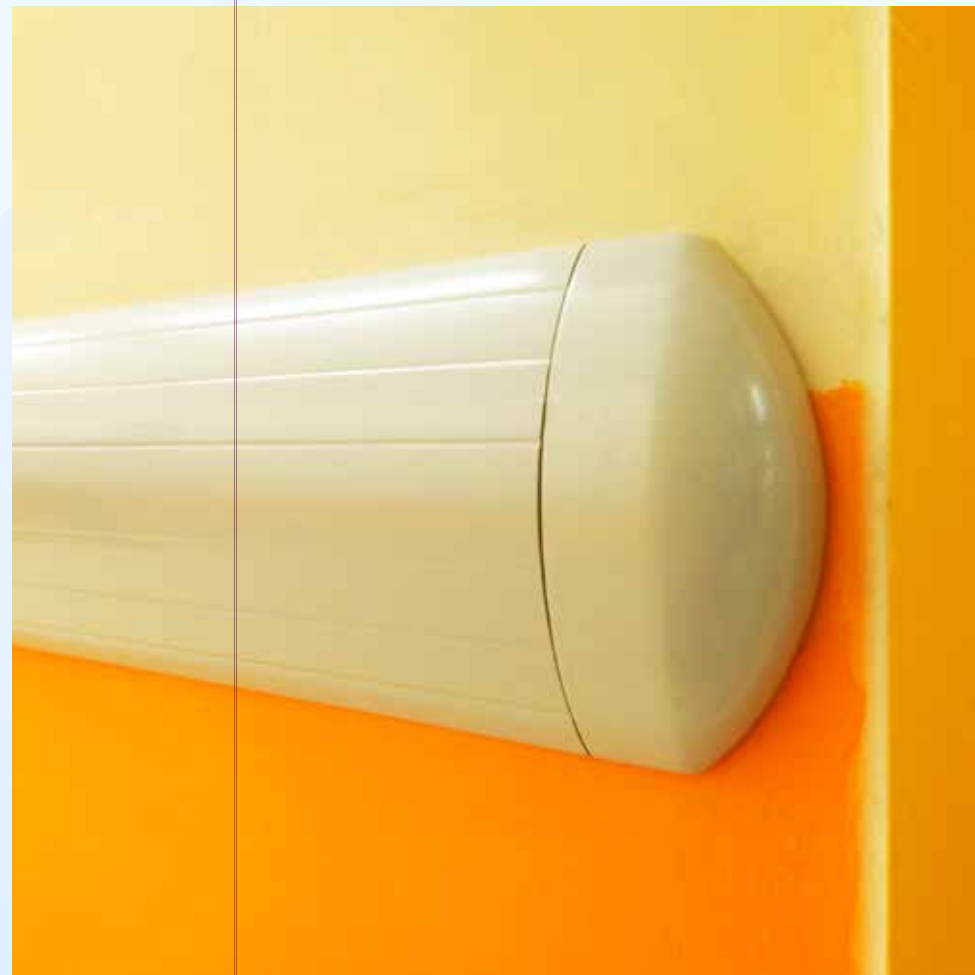
Designed to resist bacteria for improved hygiene.

## STREAMLINED DESIGN

Features a design that minimizes dust accumulation on top.

## TEXTURED SURFACE

The new Linea' Punch Neo has a slightly textured matte surface to help conceal abrasion effects.





TRADITIONAL  
HANDRAIL

COMPARISON

SPM  
HANDRAIL



## HYGIENE PROBLEM OF OTHER HANDRAILS

### HYGIENE CONCERNS

A dirty handrail can collect germs and dirt, which can make people sick, especially in public places. This might make users hesitant to touch it, leading to more accidents.

### PERCEPTION OF SAFETY

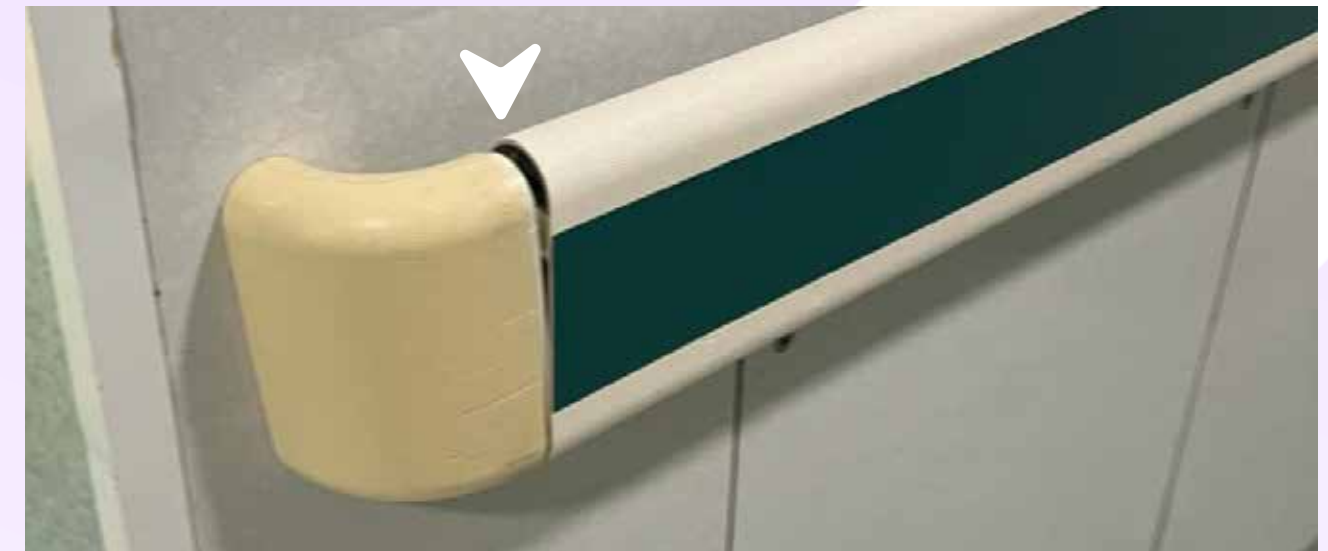
People often think a clean place is safer. If a handrail is dirty, it may give the impression that the area is not well cared for, making users feel unsafe.

### AESTHETIC IMPACT

A dirty handrail can make a place look unattractive and uninviting. This can affect how people feel and their comfort in space.







# INSTALLATION PROBLEM OF OTHER HANDRAILS

## SAFETY RISKS

Damaged handrails can have uneven surfaces, increasing the risk of bruises upon contact.

## DIRT ACCUMULATION

The deeply embossed design of the handrails tends to collect stains and dirt easily.





# THE RAIL AND PVC BRACKET PROBLEM OF OTHER HANDRAILS

With only 1 screw to tighten the rail and PVC bracket, very fragile

## WOBBLINESS

One screw makes the handrail weak, which can cause it to shake or move.

## WEAR AND TEAR

The rail might shift over time, making the screw loose and less secure.

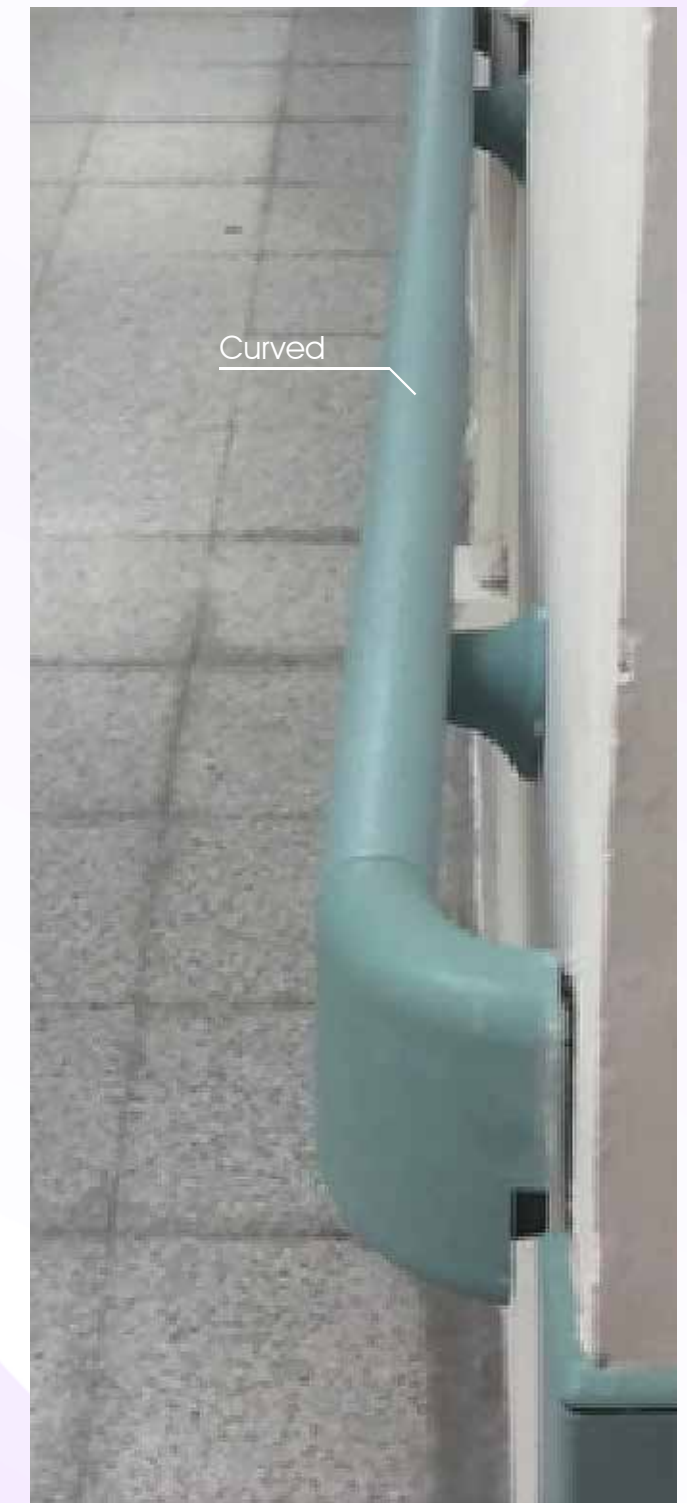
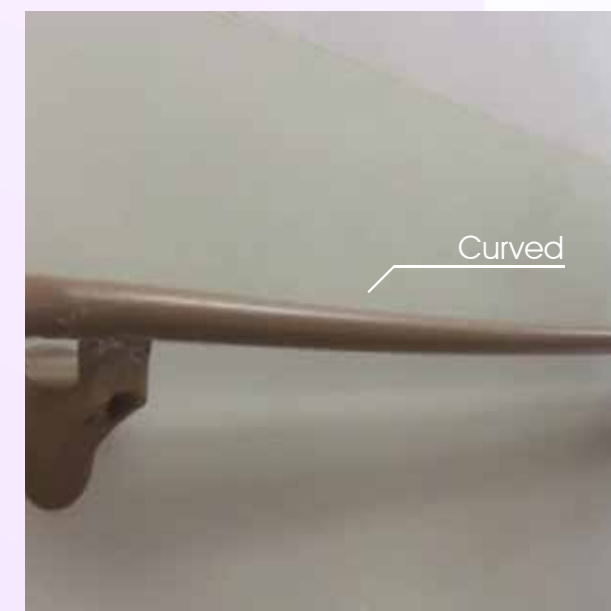
## LIMITED SUPPORT

One screw may not hold enough weight or pressure, especially in busy areas.



## LOWER IMPACT RESISTANCE

Long distance (over 1000 mm) between 2 brackets, the handrail can easily bend because there are not enough brackets to support it.





# THE CLEANING OF SPM HANDRAIL

Pasteur Institute Lille France tested SPM products and found they can be safely cleaned with hospital detergents and disinfectants, effectively removing germs

## BACTERIOSTATIC PVC

The antibacterial seals on our handrails help prevent germs from spreading through hands

- Escherichia Coli (大腸桿菌)
- Pseudomonas aeruginosa (綠膿桿菌)

## ANTIBACTERIAL

Smooth surface design with embossed texture to eliminate dusts and germs.

## JOINT

Fitted with bactericidal joints.

## BACTERICIDAL JOINT



**VIRUCIDAL\***  
**99,96%**



Institut Pasteur de Lille  
Hospital Hygiene Expert Appraisal Department

## TEST REPORT Decontamination test on DECOSHEET wall protection panels

*IPL Report N° NC/0500506*

This test report only concerns the product (as stated above) subjected to testing

### Sample identification

Name and description of product: PVC DECOSHEET lightly grained wall covering.

Customer:  
SPM International  
16 rue Isabelle Eberhardt – BP 92083  
31019 Toulouse Cedex 2

Date samples received in the laboratory: 08/02/2006



### Results

Area tested 16 cm<sup>2</sup>

Surface	Escherichia coli (大腸桿菌)		Pseudomonas aeruginosa (綠膿桿菌)	
	30' after contamination	30' after disinfectant action	30' after contamination	30' after disinfectant action
DECOSHEET Wall covering Lightly textured	> 300	0	> 300	0
	> 300	0	> 300	0
	> 300	0	> 300	0
	> 300	0	> 300	0

This document has been translated by SPM on the basis of the report produced and issued by the "Institut Pasteur de Lille" laboratory. The original report in french is available on request.

1/7

Bio-cleanability Test For Wall Protection

by Institut Pasteur de Lille



# INSTALLATION WALL RETURNS OF SPM HANDRAIL

VIRUCIDAL\*  
99,96%

## SUPPORT

Wall returns provide additional support to the user, making it easier to grip and navigate stairs.

## AESTHETICS

They create a final look that enhances the overall design of your staircase or hallway.

## SAFE

It enhances safety by incorporating a bend, preventing people from bumping into it.



# THE RAIL AND PVC BRACKET OF SPM HANDRAIL

BACTERICIDAL JOINT

BACTERICIDAL  
on request

## HIGHER IMPACT RESISTANCE

Brackets should be 400 to 850mm apart for better support and to handle heavy use.



# PROBLEM OF PAINTED WALL

Painted wall surfaces often encounter various issues:



TRADITIONAL  
WALL PANEL

COMPARISON

SPM  
WALL PANEL



# PROBLEM OF TRADITIONAL WALL PANEL



## THICKNESS

Typically less than 1mm.

## DURABILITY

Thin panels may not withstand wear and tear, leading to damage over time.

## INSULATION

Limited thickness can affect thermal and sound insulation.

## SAFETY

Thinner materials may not meet safety standards, especially in fire-prone areas.



# LET TAKE A LOOK HOW ABOUT WE ZOOMED IN 40 TIMES



Structures with sharp peaks tend to collect dirt and germs more easily.

# STRUCTURES OF TRADITIONAL WALL PANEL



BACTERICIDAL JOINT



# BENEFIT OF SPM WALL PANEL

## FIREPROOF

Provides enhanced safety by resisting fire, reducing the risk of flames spreading.

## ANTIBACTERIAL

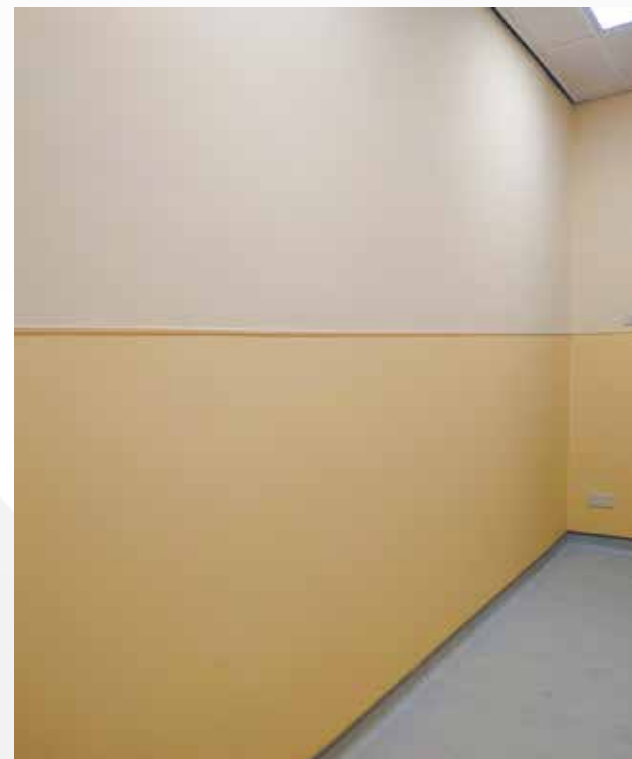
Helps inhibit the growth of bacteria, promoting a healthier indoor environment.

## EASY TO CLEAN

Smooth surfaces make maintenance simple, allowing for quick cleaning and upkeep.

## THICKNESS

Greater than 1mm, ensuring improved durability and resilience compared to traditional panels.



# LET TAKE A LOOK HOW ABOUT WE ZOOMED IN 40 TIMES



Soft and round structures are easier to clean because their smooth surfaces prevent dirt from getting trapped. They also resist scratches better, maintaining their appearance and reducing repair needs.

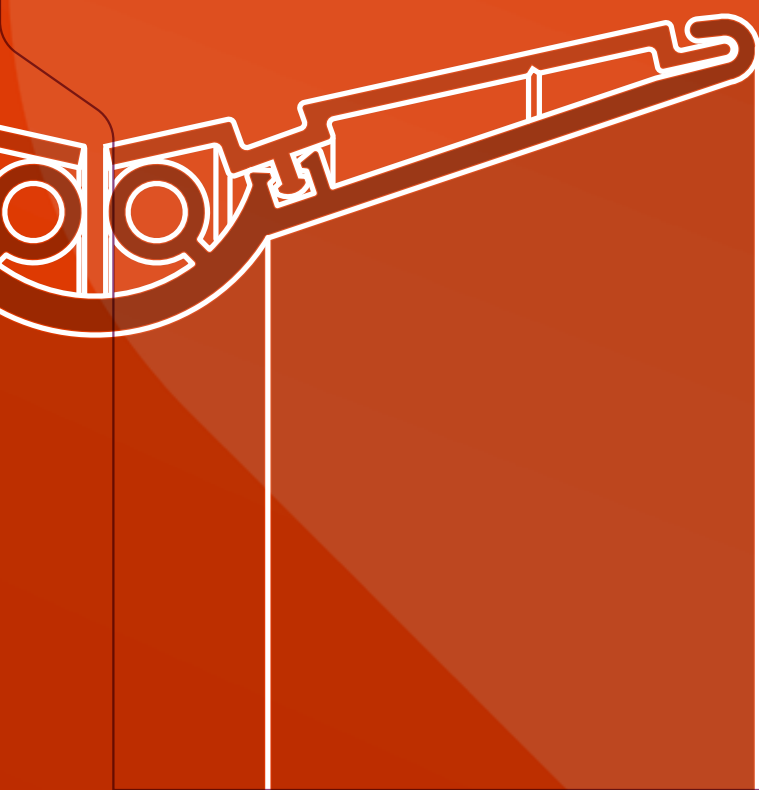
# STRUCTURES OF SPM WALL PANEL



## TRADITIONAL CORNER GUARD

## COMPARISON

## SPM CORNER GUARD



## PROBLEM OF TRADITIONAL CORNER GUARD

### CONSTRUCTION

Only glue to stick the top.

### MATERIAL

Recycled PETG (PVC) retainer.

### DESIGN

Traditional design make the corner harmful to human.



# BENEFIT OF SPM CORNER GUARD

## DURABLE CONSTRUCTION

Secured with two screws for stability.

## MATERIAL

Continuous 2mm thick pre-drilled aluminum core for strength

## DESIGN

Unique rounded spine design enhances safety at corners, protecting both people and walls.







**PAMELA YOUDE  
NETHERSOLE  
EASTERN HOSPITAL**  
- CORRIDOR 11/F -



**DECOCHOC**  
Wall protection panel  
0033 Slate



**DECOCHOC**  
Wall protection panel  
0039 Quartz



**DECOCHOC**  
Wall protection panel  
0062 Light Oak

# PROJECT REFERENCE



**DECOCHOC**  
Wall Protection Panel  
0014 Cinnamon



**COMBO CORNER 50**  
Corner Protector  
0042 Mulberry



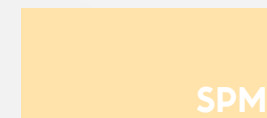
# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD C11 -





**PAMELA YOUDE  
NETHERSOLE  
EASTERN HOSPITAL**  
- OPHTHALMOLOGY -



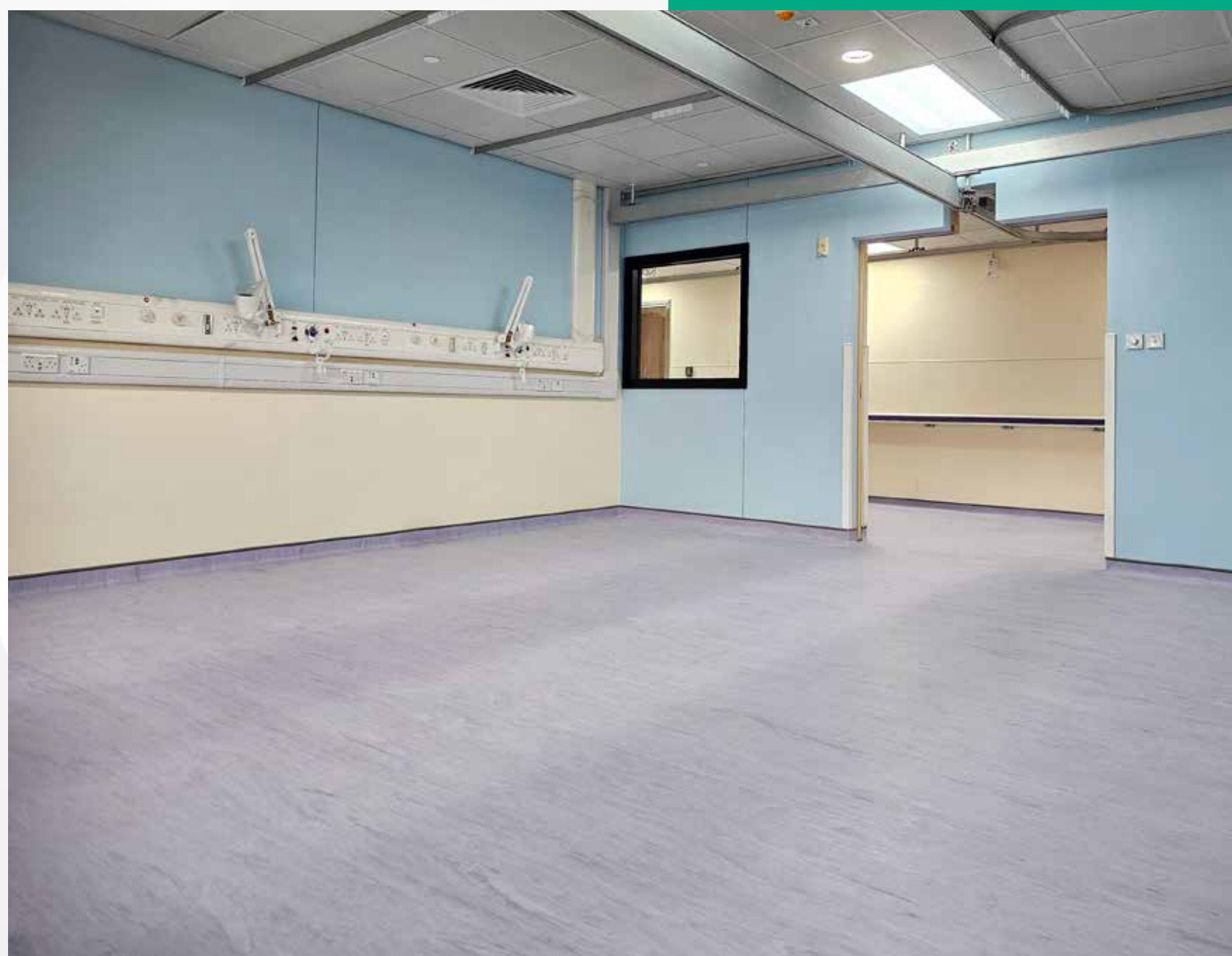
**DECOCHOC**  
Wall protection panel  
0007 Wicker





# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD B4 -



SPM

**DECOCHOC**  
Wall protection panel  
0006 Ivory

SPM

**COMBO CORNER 50**  
Corner Protector  
0001 Chalk

SPM

**STARLINE**  
PVC Handrail  
0030 Iris







# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD E9 -



SPM

**DECOCHOC**  
Wall protection panel  
0006 Ivory



SPM

**COMBO CORNER 50**  
Corner Protector  
0006 Ivory



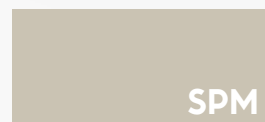
SPM

**STARLINE**  
PVC Handrail  
0071 Cherry

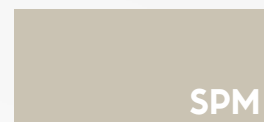


# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

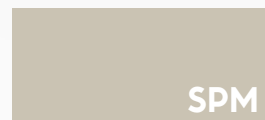
- WARD F7 -



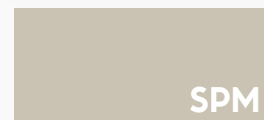
**DECOCHOC**  
Wall protection panel  
0003 Clay



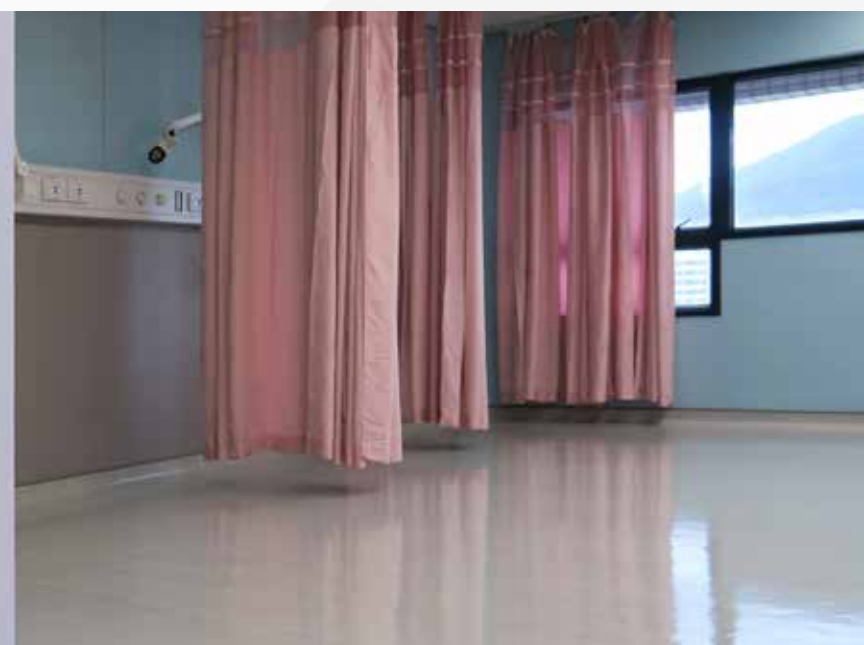
**IMPACT 200**  
Wall Bumper  
0003 Clay



**COMBO CORNER 50**  
Corner Protector  
0003 Clay



**STARLINE**  
PVC Handrail  
0003 Clay

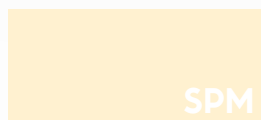






# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD E6 -



**DECOCHOC**  
Wall protection panel  
0006 Ivory



**IMPACT 200**  
Wall Bumper  
0018 Azure



**STARLINE**  
PVC Handrail  
0018 Azure

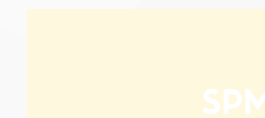


# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD B10 -



**DECOCHOC**  
Wall protection panel  
0052 Light Concrete



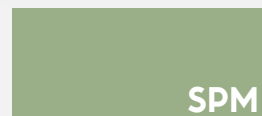
**COMBO CORNER 50**  
Corner Protector  
0001 Chalk





# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD C8 -

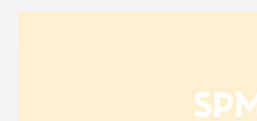


**DECOCHOC**  
Wall protection panel  
0044 Sage



# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD C5 -



**DECOCHOC**  
Wall protection panel  
0006 Ivory



**IMPACT 200**  
Wall Bumper  
0015 Lavender Grey



**STARLINE**  
PVC Handrail  
0015 Lavender Grey





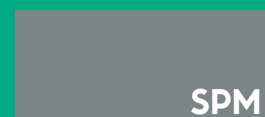


# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- A&E DEPARTMENT -



**DECOCHOC**  
Wall protection panel  
0004 Granite



**IMPACT 200**  
Wall Bumper  
0004 Granite



**CORNEA**  
Corner Protector  
0004 Granite

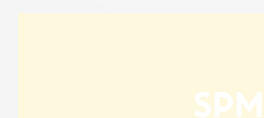


**STARLINE**  
PVC Handrail  
0004 Granite

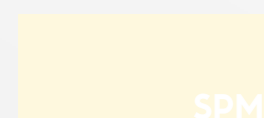


# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD B8 -



**CORNEA 90**  
Corner Protector  
0001 Chalk



**STARLINE**  
PVC Handrail  
0001 Chalk



**STARLINE**  
PVC Handrail  
0018 Azure





# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD D8 -



**COMBO CORNER 50**  
Corner Protector  
0021 Straw



**IMPACT 120**  
Wall Bumper  
0015 Lavender Grey



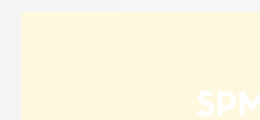
**STARLINE**  
PVC Handrail  
0021 Straw





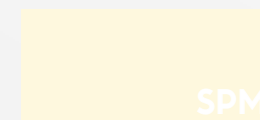
# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- NQA 5F - 6F -



SPM

**CORNEA 90**  
Corner Protector  
0001 Chalk



SPM

**IMPACT 200**  
Wall Bumper  
0001 Chalk



SPM

**STARLINE**  
PVC Handrail  
0027 Melon





# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD C5 -



**IMPACT 200**  
Wall Bumper  
0001 Chalk



**STARLINE**  
PVC Handrail  
0027 Melon





## PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD B11 -

SPM

**IMPACT 120**  
Wall Bumper  
0013 Greige

SPM

**STARLINE**  
PVC Handrail  
0013 Greige



## PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD A7 -

SPM

**DECOCHOC**  
Wall protection panel  
0001 Chalk





# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD J2 -



**DECOCHOC**  
Wall protection panel  
0018 Azure



**DECOCHOC**  
Wall protection panel  
0019 Ultramarine



**DECOCHOC**  
Wall protection panel  
0008 Sand



**DECOCHOC**  
Wall protection panel  
0062 Light Oak



**IMPACT 200**  
Wall Bumper  
0020 Denim



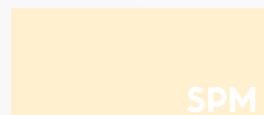
**STARLINE**  
PVC Handrail  
0050 Brushed aluminium





# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD G5 -



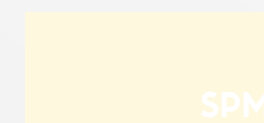
**DECOCHOC**  
Wall protection panel  
0006 Ivory



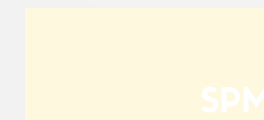


# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- EAST BLOCK WARD H3 -



**DECOCHOC**  
Wall protection panel  
0001 Chalk



**CORNEA**  
Corner Protector  
0001 Chalk

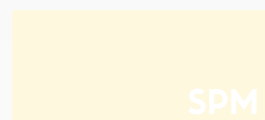






# **PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL**

- WARD E7 -



**DECOCHOC**  
Wall protection panel  
0001 Chalk



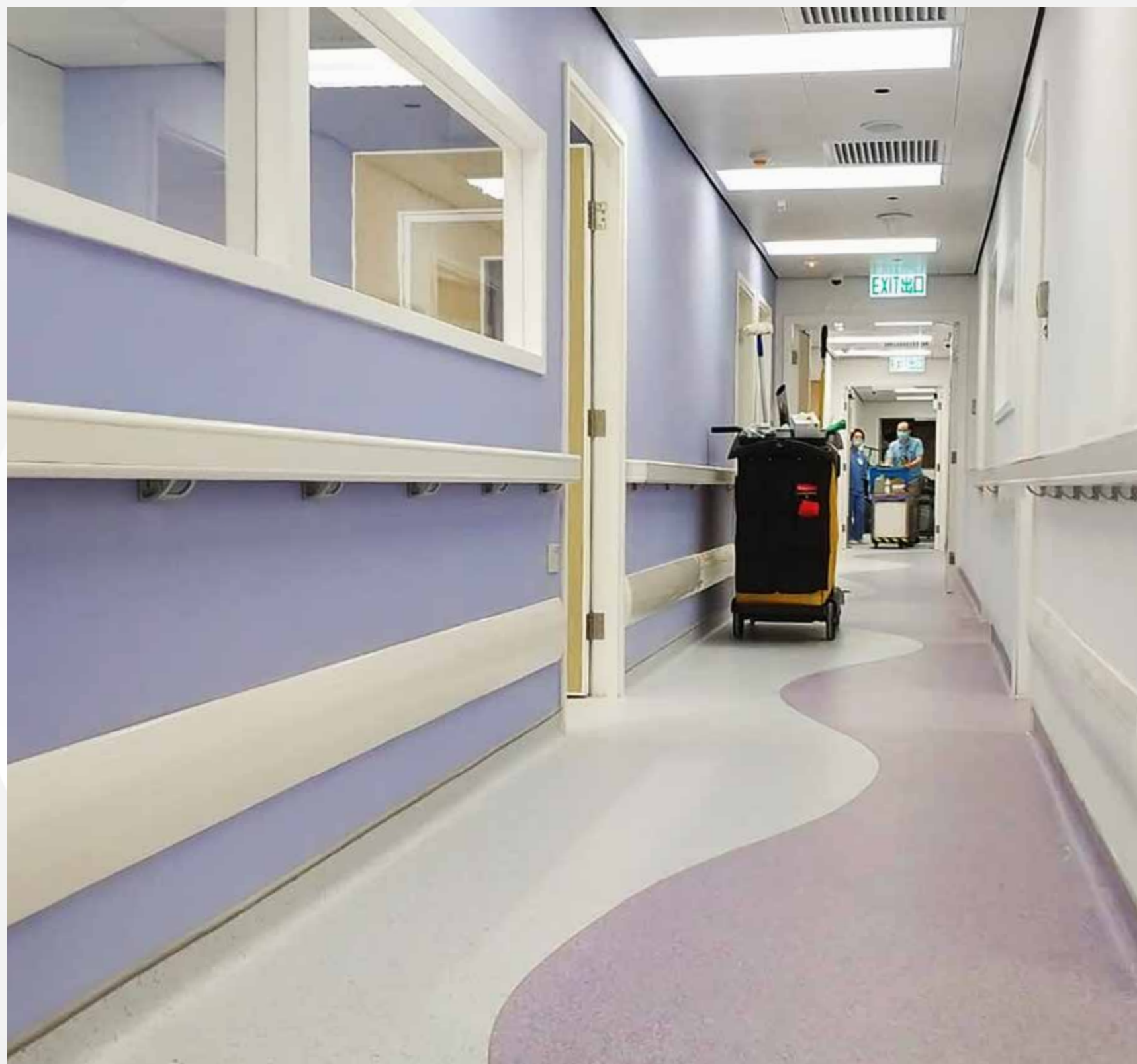
**DECOCHOC**  
Wall protection panel  
0034 Magnolia



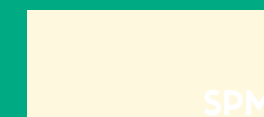


# PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD J2 -



**IMPACT 200**  
Wall Bumper  
0001 Chalk



**STARLINE**  
PVC Handrail  
0001 Chalk







## PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL

- WARD E5 -



**CORNEA**  
Corner Protector  
0011 Pebble



**IMPACT 200**  
Wall Bumper  
0011 Pebble



**STARLINE**  
PVC Handrail  
0030 Iris



## RUTTONJEE HOSPITAL

- X-RAY ROOM -



**DECOCHOC**  
Wall Protection Panel  
0054 Raw concrete



**DECOCHOC**  
Wall Protection Panel  
0031 Alum







# RUTTONJEE HOSPITAL

- WARD A10 -



**DECOCHOC**  
Wall Protection Panel  
0007 Wicker



**DECOCHOC**  
Wall Protection Panel  
0011 Pebble



**DECOCHOC**  
Wall Protection Panel  
0016 Glacier



**DECOCHOC**  
Wall Protection Panel  
0023 Meadow



**DECOCHOC**  
Wall Protection Panel  
0024 Bamboo



**DECOCHOC**  
Wall Protection Panel  
0034 Magnolia





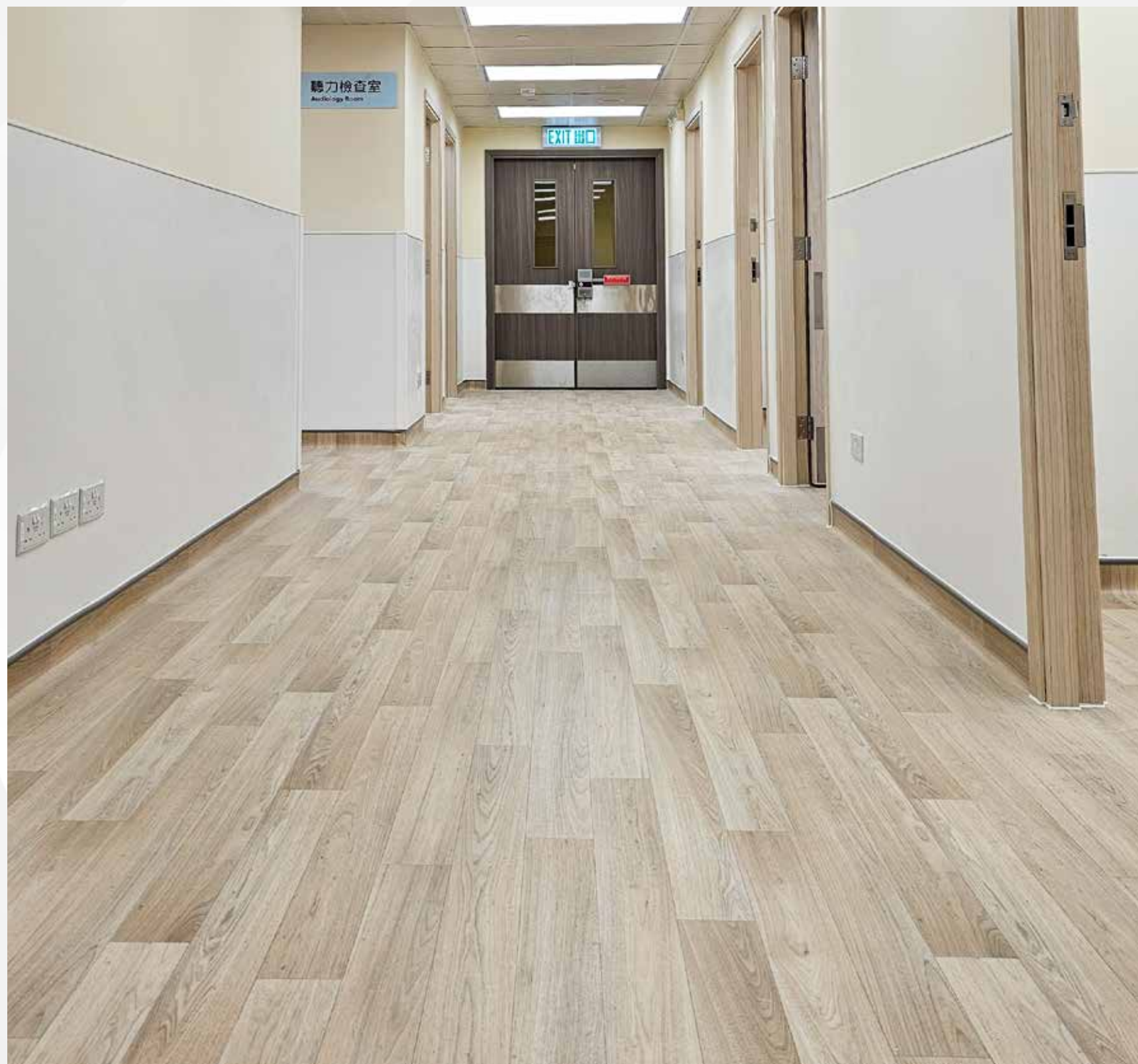
**RUTTONJEE HOSPITAL**

- MAIN BUILDING LG3/F -



**DECOCHOC**  
Wall Protection Panel  
0007 Wicker





**DECOCHOC**  
Wall Protection Panel  
0001 Chalk



**COMBO CORNER 50**  
Corner Protector  
0001 Chalk





# TWGHs FUNG YIU KING HOSPITAL

- WARD 2B -



SPM

STARLINE ANODISED  
PVC Handrail  
0033 Slate







東華三院

Tung Wah Group of Hospitals

## TUNG WAH HOSPITAL

- WARD Y5 -

SPM

**CORNEA**  
Corner Protector  
0030 Iris

SPM

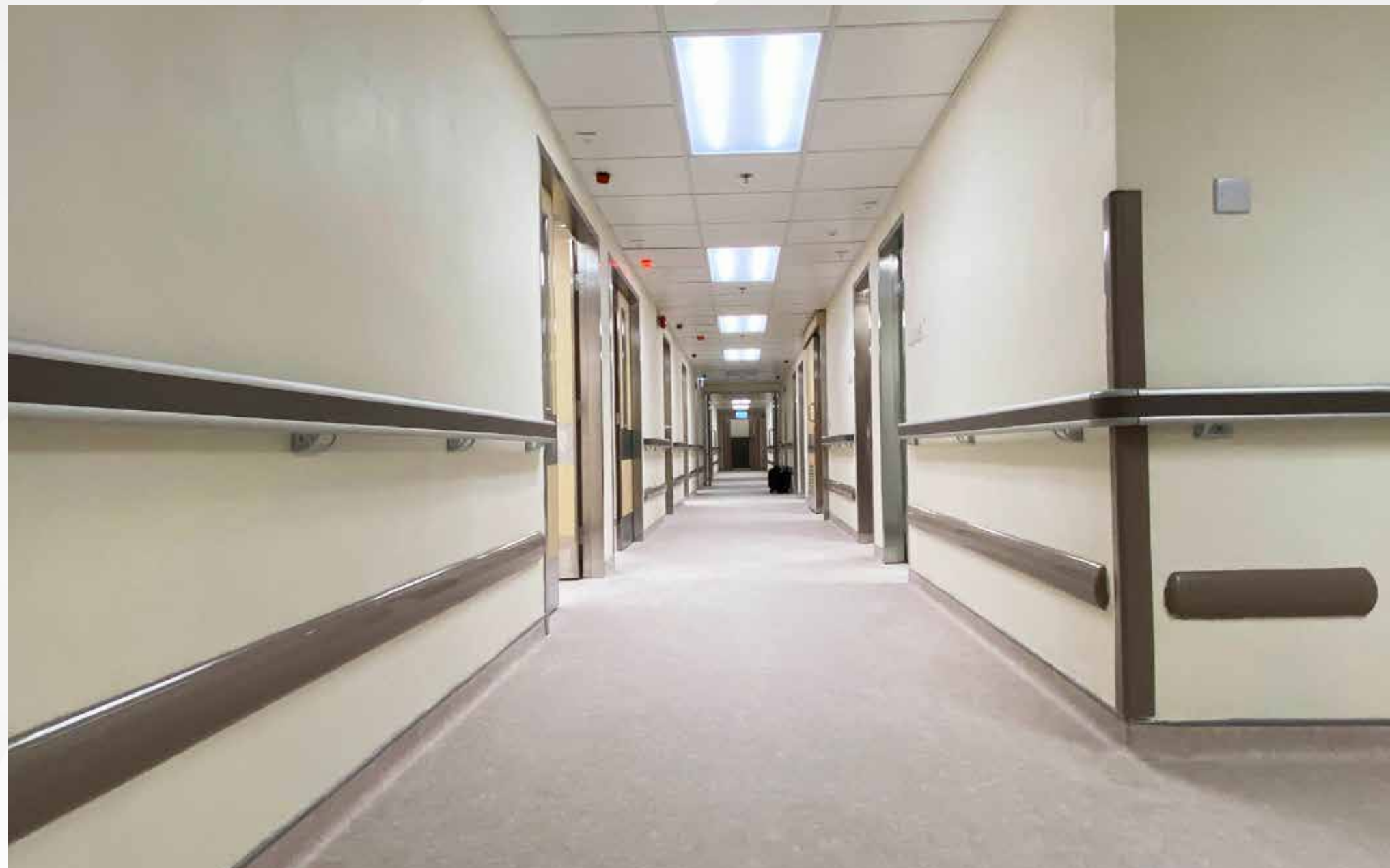
**IMPACT 120**  
Wall Bumper  
0030 Iris







SPM

**STARLINE**  
PVC Handrail  
0030 Iris







 <p><b>SPM</b></p> <p><b>CORNEA</b> Corner Protector 0009 Sienna</p>	 <p><b>SPM</b></p> <p><b>CORNEA</b> Corner Protector 0017 Bluebell</p>
 <p><b>SPM</b></p> <p><b>IMPACT 120</b> Wall Bumper 0009 Sienna</p>	 <p><b>SPM</b></p> <p><b>IMPACT 120</b> Wall Bumper 0017 Bluebell</p>
 <p><b>SPM</b></p> <p><b>STARLINE</b> PVC Handrail 0010 Bark</p>	 <p><b>SPM</b></p> <p><b>STARLINE</b> PVC Handrail 0017 Bluebell</p>

# TUNG WAH HOSPITAL

- WARD Y6 -



SPM

**CORNEA**  
Corner Protector  
0017 Bluebell

SPM

**IMPACT 120**  
Wall Bumper  
0022 Apricot

SPM

**STARLINE**  
PVC Handrail  
0022 Apricot



# TUNG WAH HOSPITAL

- OPERATING THEATRES IN -  
CENTENARY BUILDING

SPM

**DECOCLEAN**  
Wall Protection Panel  
0001 Chalk





東華三院  
Tung Wah Group of Hospitals

## TUNG WAH HOSPITAL GENERAL

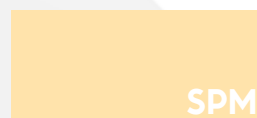
- OUT PATIENT CLINIC AT -  
HAWKINS WING



東華三院  
Tung Wah Group of Hospitals

## TUNG WAH HOSPITAL

- 2F -



**DECOCHOC**  
Wall protection panel  
0007 Wicker



**CORNEA 90**  
Corner Protector  
0007 Wicker



**CORNEA**  
Corner Protector  
0030 Iris



**IMPACT 200**  
Wall Bumper  
0030 Iris



**STARLINE**  
PVC Handrail  
0030 Iris



# TUNG WAH EASTERN HOSPITAL

- WARD A1 -



**DECOCHOC**  
Wall protection panel  
0007 Wicker

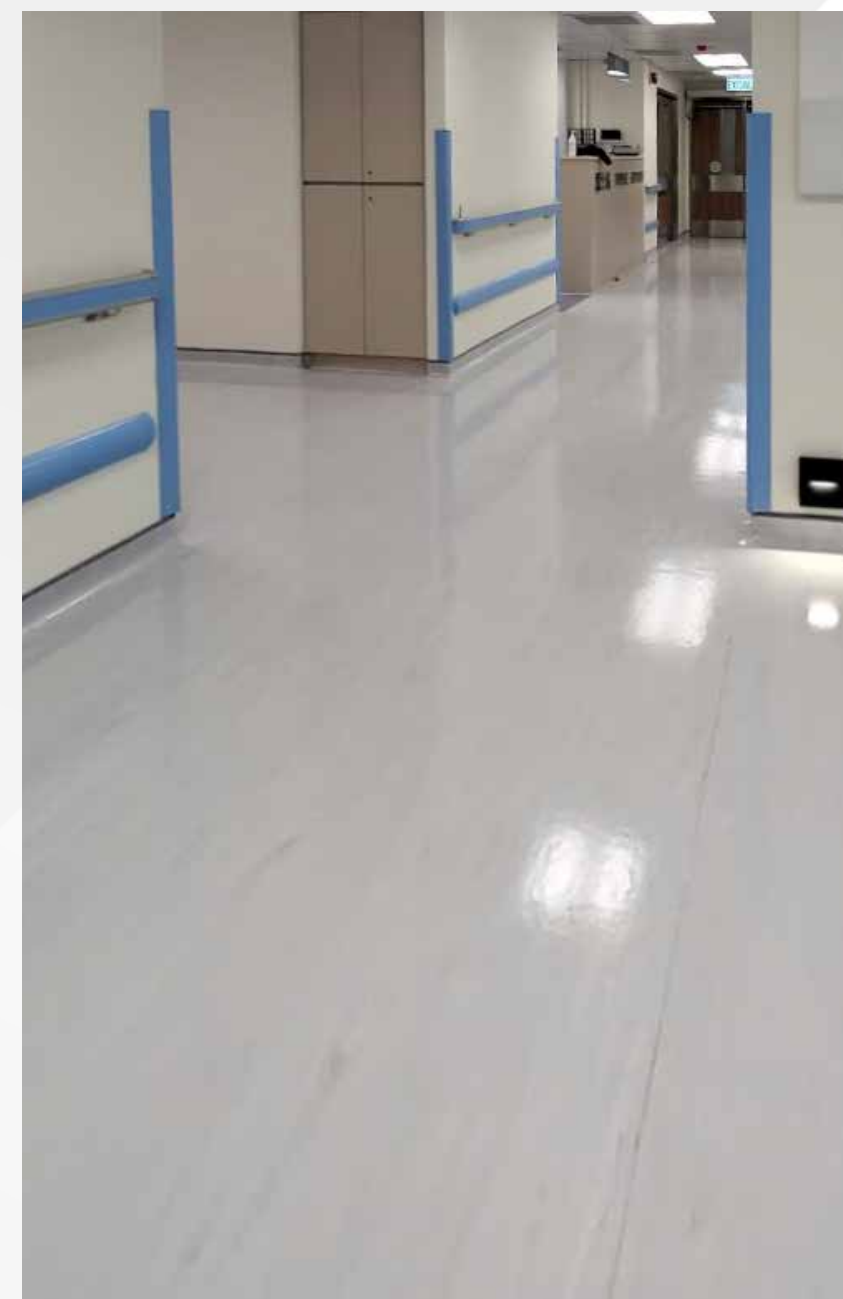


**COMBO CORNER 50**  
Corner Protector  
0041 Terracotta



# TUNG WAH HOSPITAL

- WARD Y2 -



SPM

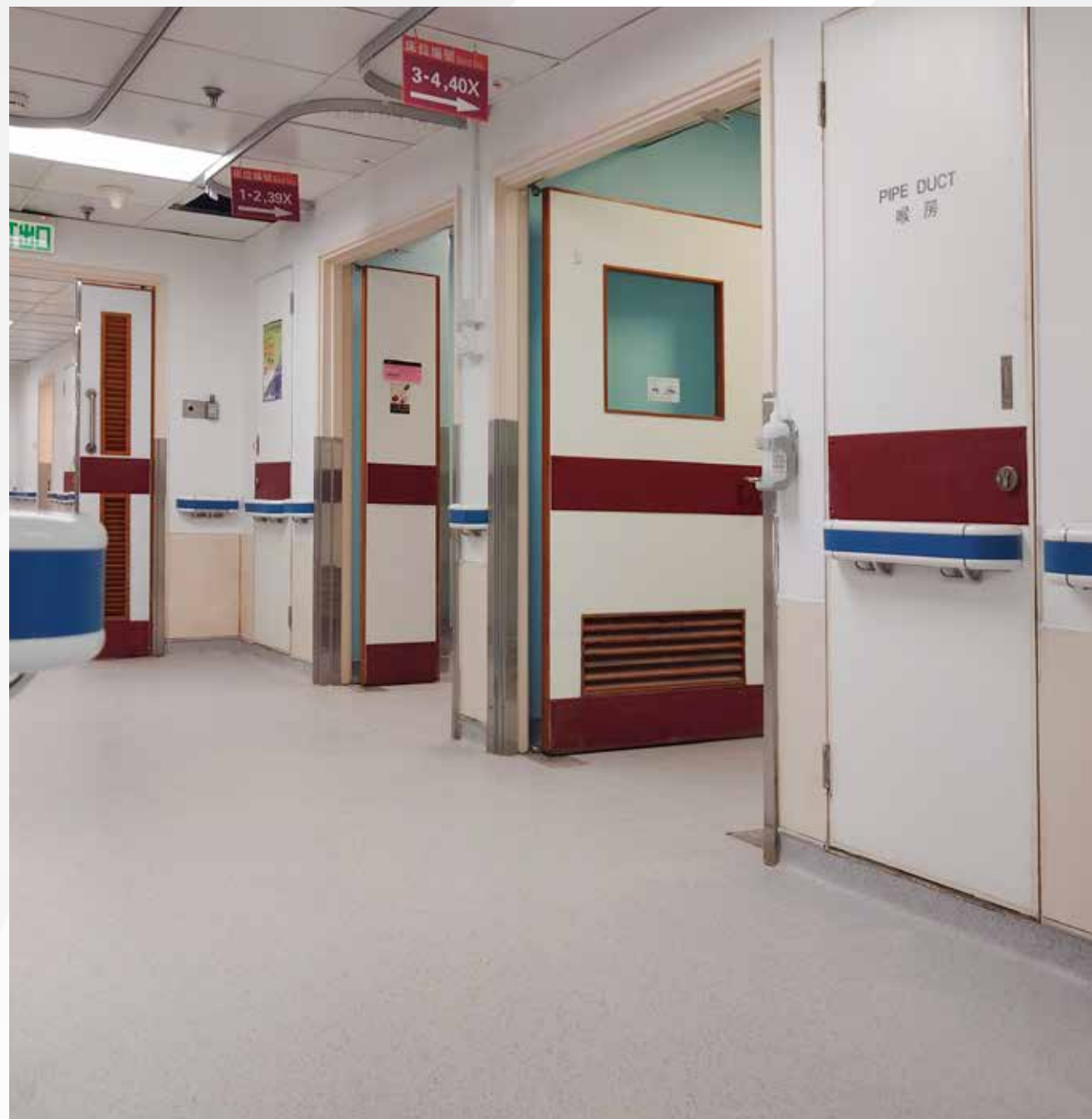
**IMPACT 200**  
Wall Bumper  
0018 Azure

SPM

**CORNEA**  
Corner Protector  
0018 Azure

SPM

**STARLINE**  
PVC Handrail  
0018 Azure



# QUEEN ELIZABETH HOSPITAL

- WARD C3 -

SPM

STARLINE  
PVC Handrail  
0020 Denim







# QUEEN ELIZABETH HOSPITAL

- WARD B6 -



**CORNEA**  
Corner Protector  
0024 Bamboo



**PERFORMER 2**  
Wall Bumper Handrail  
0027 Melon





# Our Lady of Maryknoll Hospital

- WARD E1 -



**IMPACT 200**  
Wall Bumper  
0022 Apricot



**IMPACT 200**  
Wall Bumper  
0024 Bamboo



**IMPACT 200**  
Wall Bumper  
0018 Azure



**PERFORMER 2**  
Wall Bumper Handrail  
0022 Apricot



**PERFORMER 2**  
Wall Bumper Handrail  
0024 Bamboo



**PERFORMER 2**  
Wall Bumper Handrail  
0018 Azure





# Our Lady of Maryknoll Hospital

- WARD E2 -



**IMPACT 200**  
Wall Bumper  
0025 Emerald



**STARLINE**  
PVC Handrail  
0028 Poppy



# Our Lady of Maryknoll Hospital

- 3F OPD -



**COMBO PUNCH**  
Wall Bumper  
0005 Schist



**Linea Touch**  
PVC Handrail  
0004 Granite



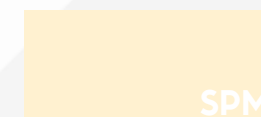
# PRINCESS MARGARET HOSPITAL

- WARD B2 -



SPM

**IMPACT 200**  
Wall Bumper  
0025 Emerald



SPM

**IMPACT 200**  
Wall Bumper  
0006 Ivory



SPM

**STARLINE**  
PVC Handrail  
0019 Ultramarine



SPM

**STARLINE**  
PVC Handrail  
0027 Melon







# PRINCESS MARGARET HOSPITAL

- SURGERY FLOOR -



**CORNEA 90**  
Corner Protector  
0029 Garnet



**STARLINE**  
PVC Handrail  
0029 Garnet



# PRINCESS MARGARET HOSPITAL

- LG2 -



**CORNEA 90**  
Corner Protector  
0029 Garnet



**IMPACT 200**  
Wall Bumper  
0029 Garnet



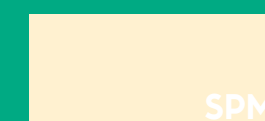
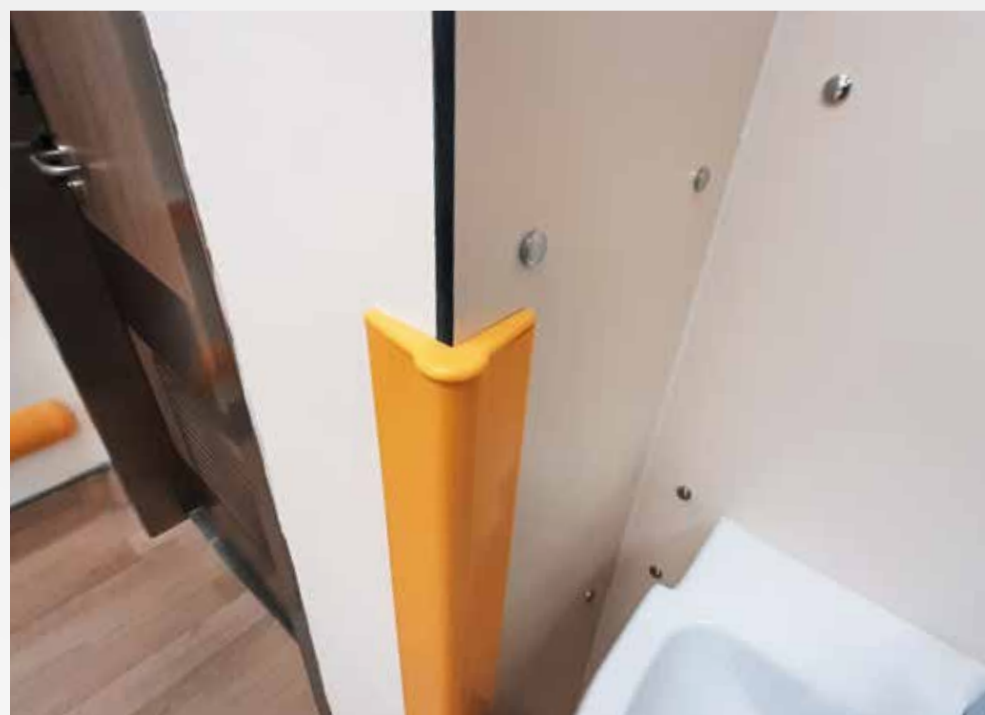
**STARLINE**  
PVC Handrail  
0029 Garnet





## QUEEN MARY HOSPITAL

- WARD B3 -



**DECOCHOC**  
Wall Protection Panel  
0006 Ivory



**IMPACT 120**  
Wall Bumper  
0022 Apricot



**CORNEA 90**  
Corner Protector  
0022 Apricot



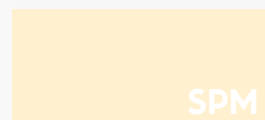
**STARLINE**  
PVC Handrail  
0027 Melon





# QUEEN MARY HOSPITAL

- WARD K16N -



**CORNEA 90**  
Corner Protector  
0006 Ivory



**IMPACT 120**  
Wall Bumper  
0006 Ivory



**STARLINE**  
PVC Handrail  
0022 Apricot





**QUEEN MARY  
HOSPITAL**  
- BLOCK A6 -

SPM

**CORNEA 90**  
Corner Protector  
0001 Chalk

SPM

**IMPACT 120**  
Wall Bumper  
0016 Glacier

SPM

**LINEA TOUCH**  
PVC Handrail  
0016 Glacier

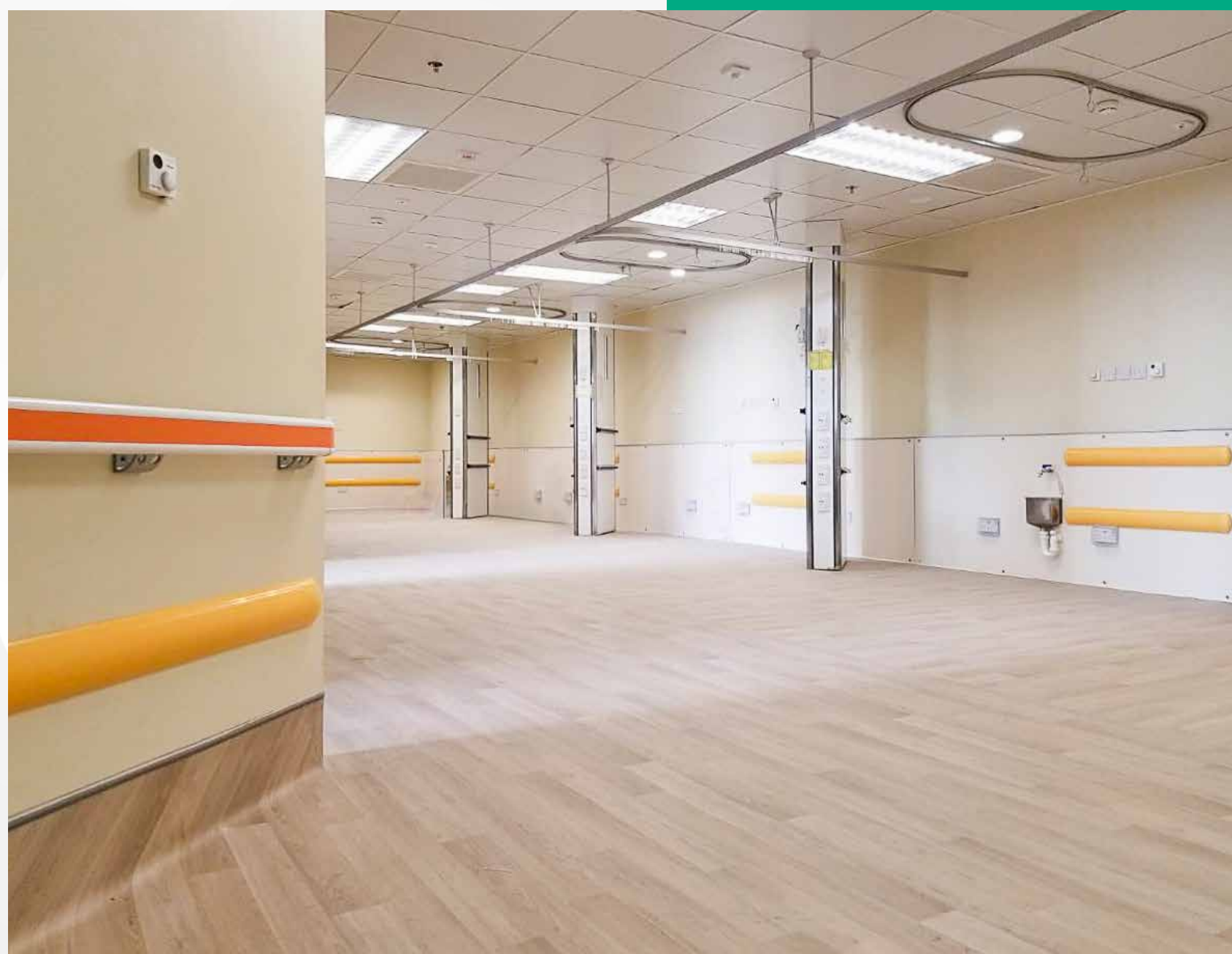






# QUEEN MARY HOSPITAL

- WARD J2 -



SPM

**DECOCHOC**  
Wall protection panel  
0022 Apricot

SPM

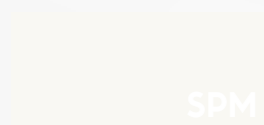
**PERFORMER 2**  
Wall Bumper Handrail  
0027 Melon





# TUEN MUN HOSPITAL

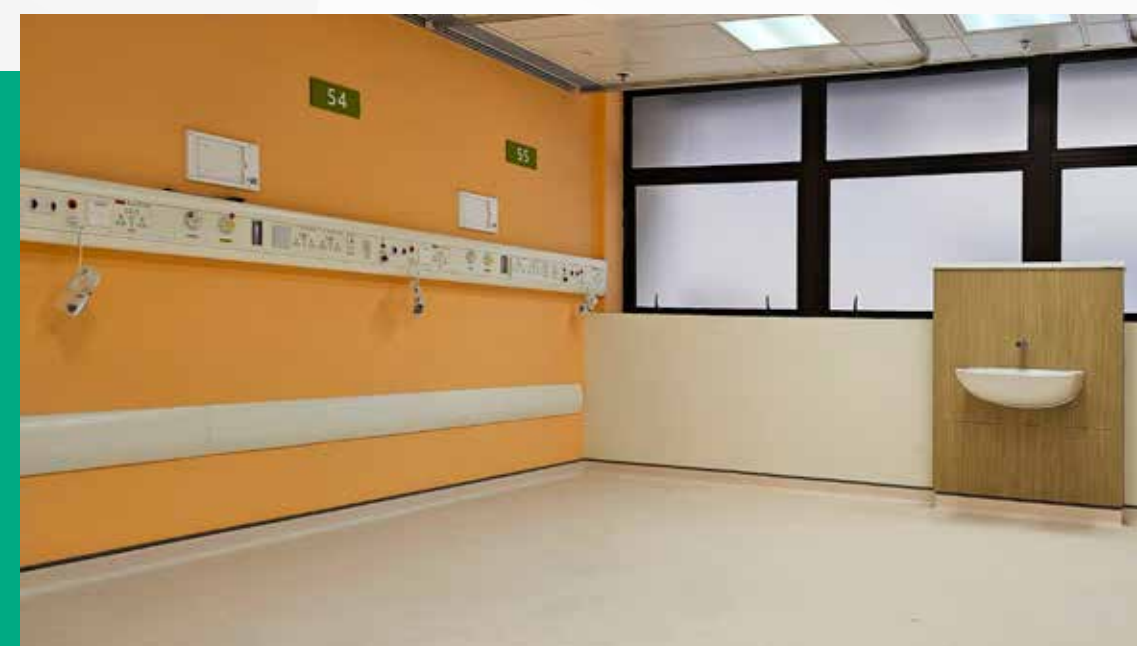
- WARD F1 -



**IMPACT 200**  
Wall Bumper  
1102 Spume



**STARLINE**  
PVC Handrail  
0060 Maple







# THE HONG KONG BUDDHIST HOSPITAL

- Block A, 3/F -

SPM

LINEA TOUCH  
Handrail  
0009 Sienna







## THE HONG KONG BUDDHIST HOSPITAL

- WARD A1 -

124



**LINEA PUNCH**  
Wall Bumper  
0023 Meadow



**LINEA TOUCH**  
PVC Handrail  
0023 Meadow



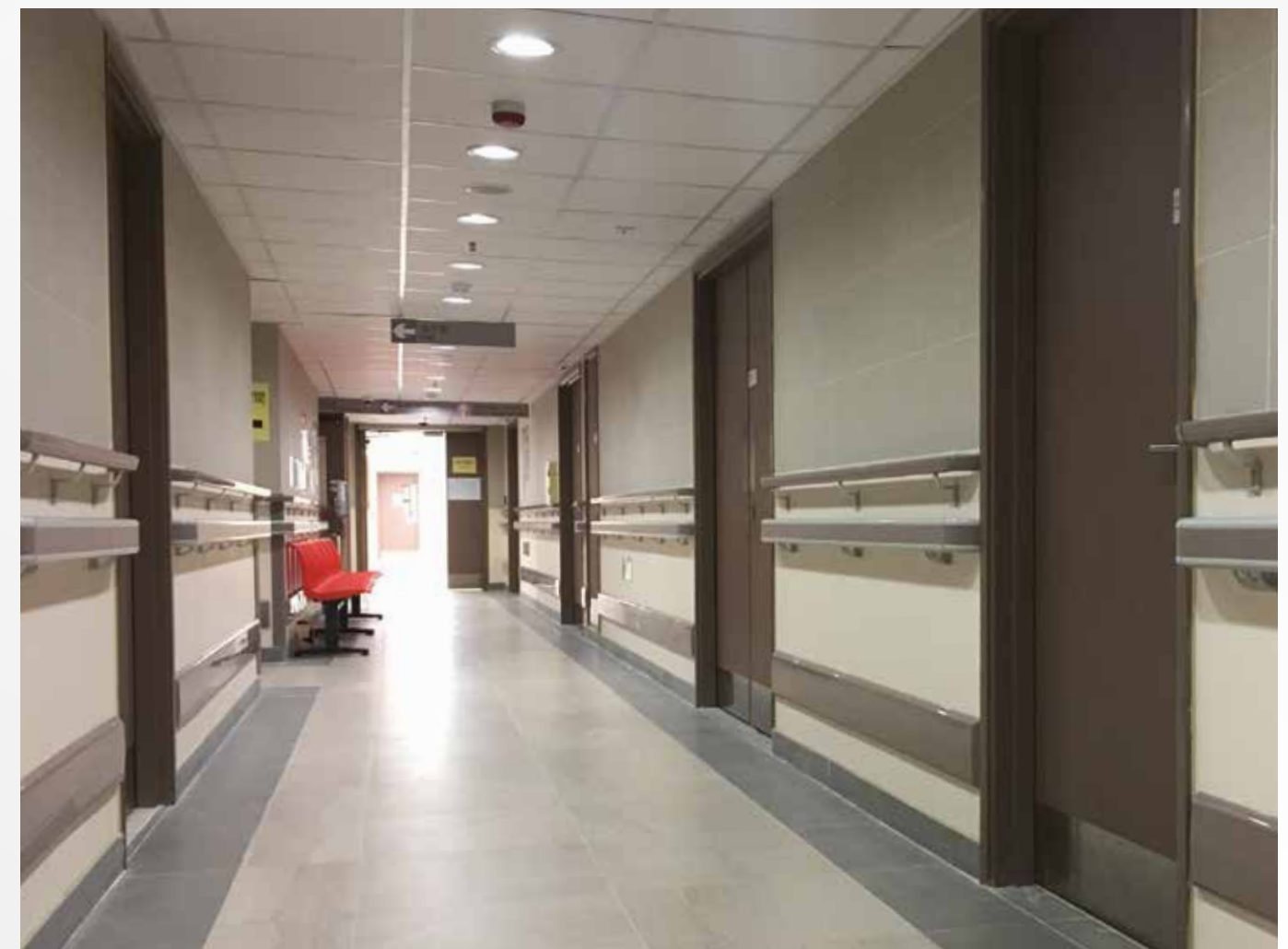
## THE HONG KONG BUDDHIST HOSPITAL



**LINEA PUNCH NEO**  
Wall Bumper  
0009 Sienna



**LINEA TOUCH**  
Handrail  
0009 Sienna



125





## YAN CHAI HOSPITAL

- WARD 9E & 10W -

SPM

**CORNEA**  
Corner Guard  
0024 Bamboo

SPM

**IMPACT 120**  
Wall Bumper  
0024Bamboo

SPM

**ESCORT**  
Handrails  
0024Bamboo





# YAN CHAI HOSPITAL

- WARD 9W at MSC 9/F -



**CORNEA**  
Corner Guard  
0011 Pebble



**Linea Punch 180**  
Wall Bumper  
0011 Pebble



**Starline**  
PVC Handrail  
0018 Bluebell



128



# YAN CHAI HOSPITAL

- 4F -



**CORNEA**  
Corner Guard  
0024 Bamboo



**IMPACT 120**  
Wall Bumper  
0024Bamboo



**ESCORT**  
Handrails  
0024Bamboo

129





**HAVEN OF HOPE  
HOSPITAL  
TSEUNG KWAN O**  
- NEW BUILD PROJECT -



130



131

SPM

**STARLINE**  
PVC Handrail  
0016 glacier

SPM

**STARLINE**  
PVC Handrail  
0023 meadow





# HAVEN OF HOPE HOSPITAL TSEUNG KWAN O - NEW BUILD PROJECT -



SPM

**STARLINE**  
PVC Handrail  
0016 glacier



SPM

**STARLINE**  
PVC Handrail  
0023 meadow





# POK OI HOSPITAL

- WARD 6N -



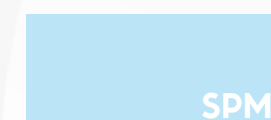
**DECOCHOC**  
Wall protection panel  
0101 Mist





**WONG CHUK HANG  
HOSPITAL**

- WARD 2A & 2B -



**DECOCHOC**  
Wall protection panel  
0016 Glacier



**DECOCHOC**  
Wall protection panel  
0007 Wicker



**DECOCHOC**  
Wall protection panel  
0039 Quartz



**DECOCHOC**  
Wall protection panel  
0030 Iris



**DECOCHOC**  
Wall protection panel  
0024 Bamboo





## BLOOD TRANSFUSION CENTRE



**Linea Touch**  
PVC Handrail  
0011 Pebble



## A&E DEPT. OF ALICE HO MIU LING NETHERSOLE HOSPITAL



**DECOCHOC**  
Wall protection panel  
0029 Garnet



**STARLINE**  
PVC Handrail  
0029 Garnet



醫院管理局  
HOSPITAL  
AUTHORITY

**ROBERT  
BLACK**

- GOPC -



**PERFORMER 2**  
Wall Bumper Handrail  
0020 Denim



# Hong Kong Adventist Hospital

- Room 1308 of Main Tower -



# HONG KONG SANATORIUM & HOSPITAL

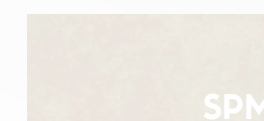
- 7/F & 10/F -



**DECOPRINT**  
 Wall Protection Panel



**MURAL CALYPSO**  
 Wall  
 7008 Fossil Ice



**MURAL CALYPSO**  
 Wall  
 7011 Ice



**STARLINE**  
 PVC Handrail  
 0009 Sienna



**STARLINE**  
 PVC Handrail  
 0010 Bark



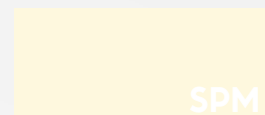


DECOCHOC  
Wall protection panel  
0022 Apricot





# FU HONG SOCIETY WO CHE ADULT TRAINING CENTRE



ESCORT  
PVC Handrail  
0001 Chalk



# FU HONG SOCIETY KAI NANG INTEGRATED REHABILITATION SERVICES COMPLEX



STARLINE  
PVC Handrail  
0010 Bark

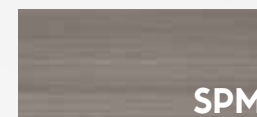




## YUNG FUNG SHEE MEMORIAL CENTRE



**DECOWOOD**  
Wall Protection Panel  
0065 Stripped Pine



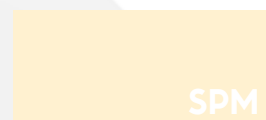
**DECOWOOD**  
Wall Protection Panel  
0069 Brown Cedar



## HAVEN OF HOPE WOO PING CARE AND ATTENTION HOME



**IMPACT 200**  
Wall Bumper  
0032 Flint



**CORNEA 90**  
Corner Protector  
0006 Ivory





# HKSB YUEN LONG HOME FOR THE AGED BLIND

SPM

ESCORT  
PVC Handrail  
0002 Gravel







SPM

**ESCORT DECOWOOD**  
Handrail  
0060 Maple







# EVANGELICAL LUTHERAN CHURCH SOCIAL SERVICE



**ESCORT DECOWOOD**  
Handrail  
0060 Maple



154



155



## SHATIN RHENISH NEIGHBOURHOOD ELDERLY CENTRE



## LAW CHAN CHOR SZE NEIGHBOURHOOD ELDERLY CENTRE



**ESCORT**  
PVC Handrail  
0014 Cinnamon



**CAPCORN**  
Corner Protector  
0011 Pebble



**ESCORT**  
PVC Handrail  
0011 Pebble





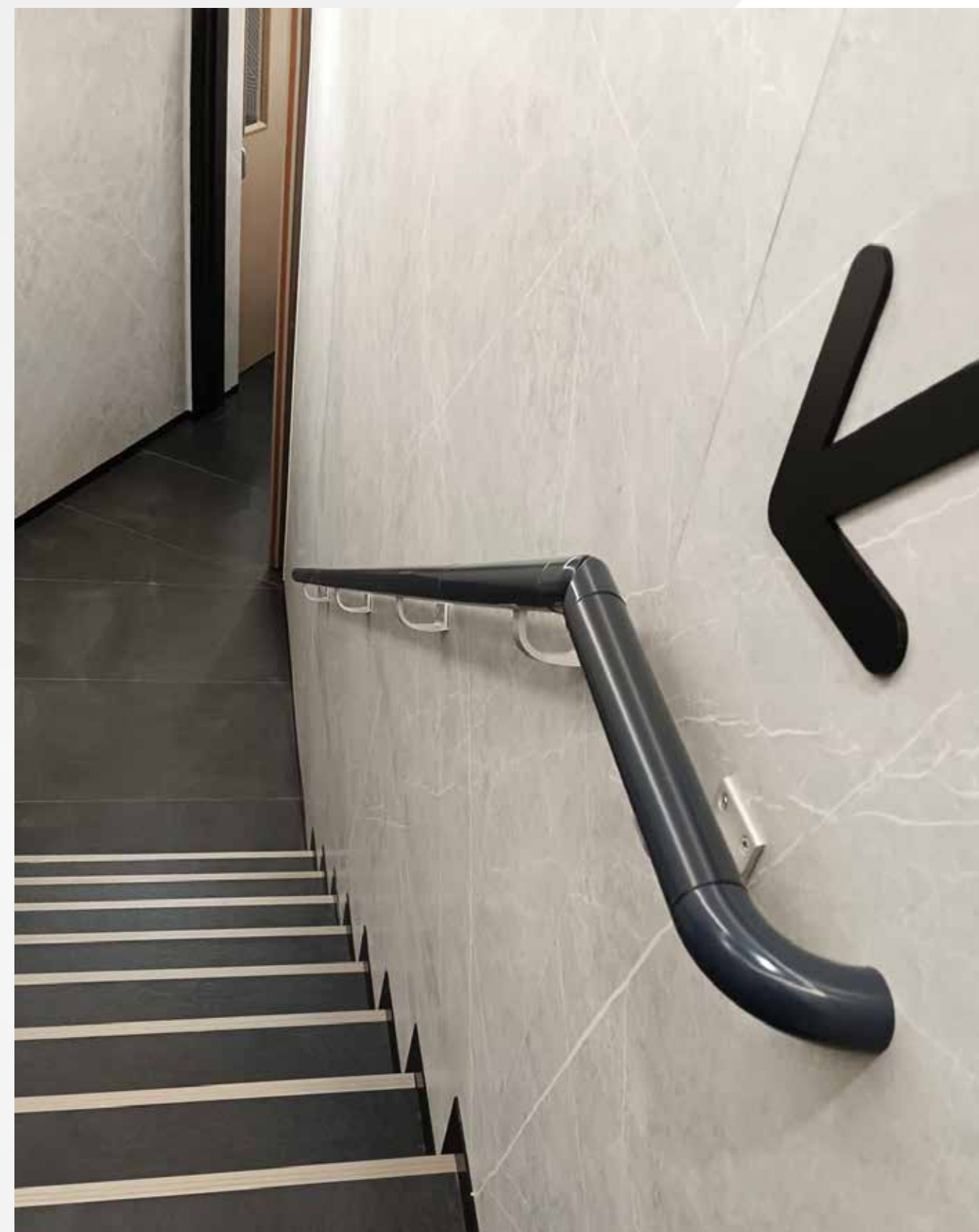
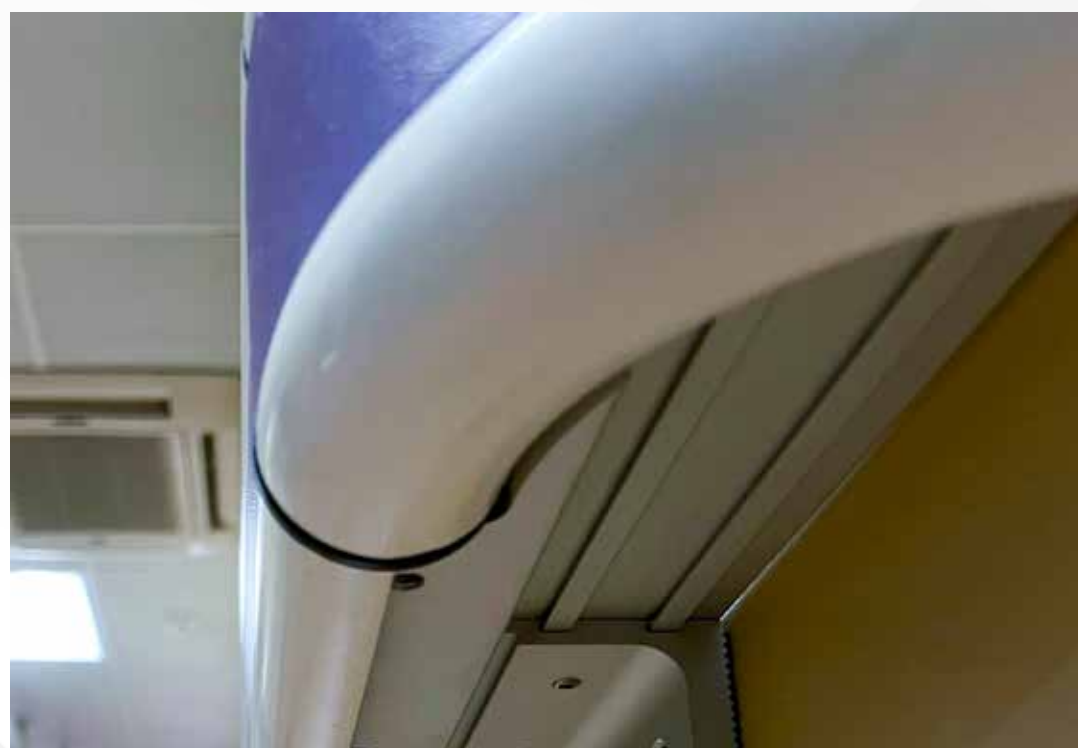
# CHESHIRE HOME CHUNG HOM KOK

- WARD 3A -



SPM

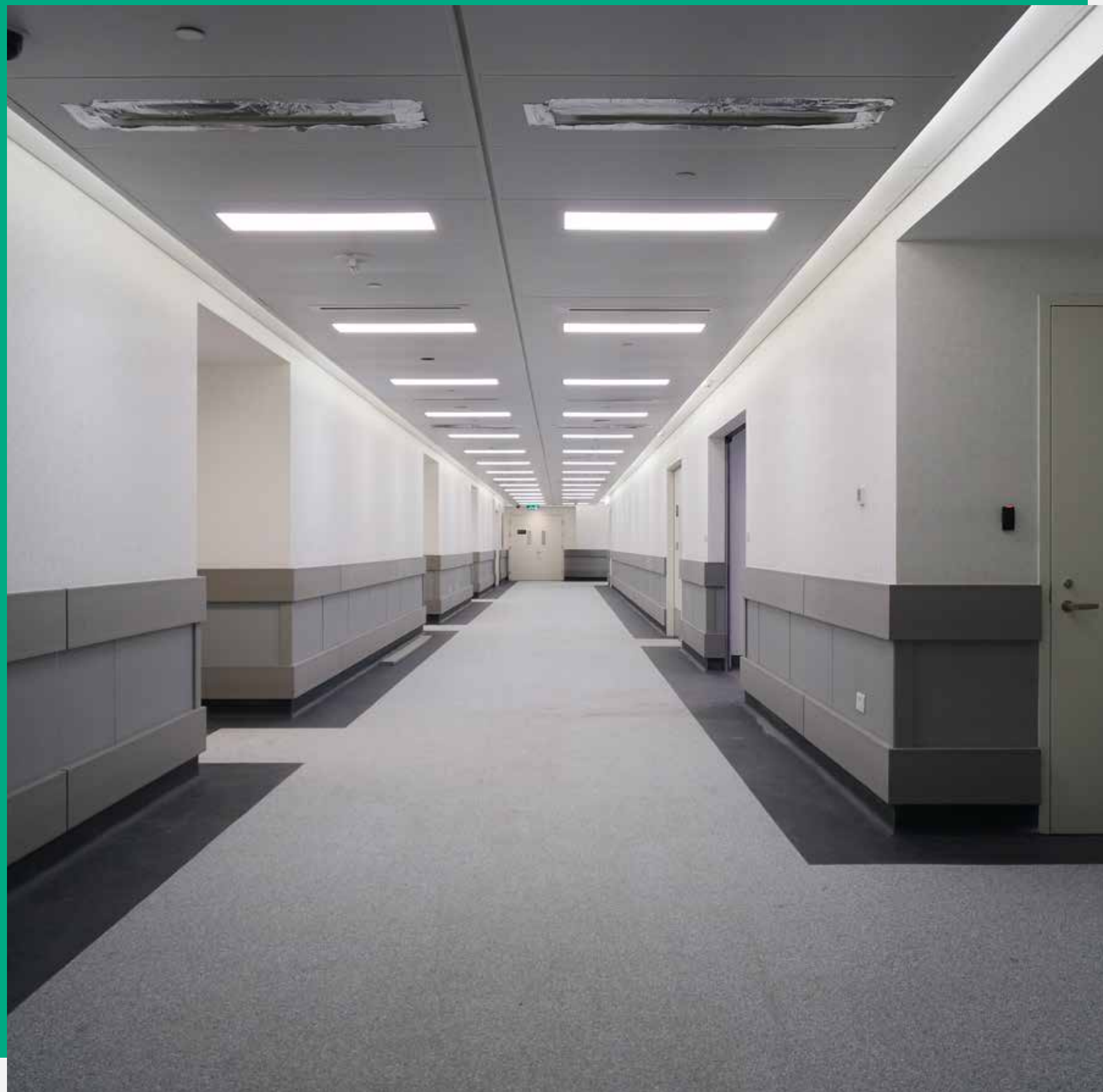
STARLINE  
PVC Handrail  
0030 Iris



## METHODIST CENTRE

SPM

ESCORT  
PVC Handrail  
0033 Slate







**HARBOUR GRAND  
HOTEL**



SPM

**CONTACT 200**  
Wall Protection  
0003 Clay

SPM

**COMBO PUNCH 100D**  
Wall Protection Rail  
0003 Clay





GOLD COAST  
HOTEL



領展  
LINK  
WAN TSUI  
COMMERCIAL  
COMPLEX

SPM

IMPACT 120  
Wall Bumper  
0019 Ultramarine



D-PARK

SPM

# 361°

## ARCHITECTURAL SOLUTIONS

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