



Relle

One-stop Floor Solution

Relle Decoration Material Guangzhou Co.,Ltd

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Anti-static series
 Kavia HI homogeneous floor
 Application: reception, patients room, doctor's office and almost hospital area

Kavia HI

Homogeneous Indirection Flooring



DESCRIPTION

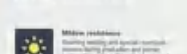
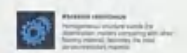
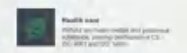
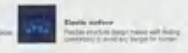
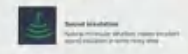
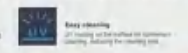
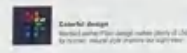
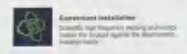
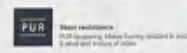
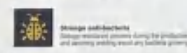
Total thickness	EN 428	mm	2.0 / 2.5 / 3.0
Weight	EN 430	g/m²	2800 / 3600 / 4500
Width of sheet	EN 426	cm	200
Length of sheet	EN 426	m	99 / 115 / 130

CLASSIFICATION

Form/Product specification			EN 663
European classification	EN 649	class	34-41
K rating		class	X5
	EN 13501-1	class	B1-p
Fire rating	DIN 4102		BT
	GB 8624-2005		GB 8624 B1
Toxic testing	GB 18580-2001		Qualified
Static electrical propensity	EN 1813	KV	<2
Electrical resistance	EN 1081	Ω	<10 ¹⁰
Slip resistance dry	EN 13893	γ	≥0.3
Slip resistance wet	DIN 51130	class	R9

PERFORMANCE

Abrasion resistance	EN 660-1	mm	≤0.15
Abrasion group	EN 649	Group	T
Dimensional stability	EN 436	%	<0.4
Residual indentation	EN 435	mm	0.04
Carston chair test	EN 425		OK
Thermal conductivity	EN 12528	W/mK	0.25
Colour fastness	EN 20105 - B02	Degree	≥5
Chemical products resistance	EN 423		OK
Anti-bacterial and fungicidal			OK
TWOC after 28 days	ISO 16000-6	μg/m²	<10
Special maintenance treatment			PUR



Kavia HI

Homogeneous Indirection Flooring



Kavia HI Homogeneous Indirection Flooring



Anti-static series
 Kavia HI homogeneous floor
 Application: reception, patients room, doctor's office and almost hospital area



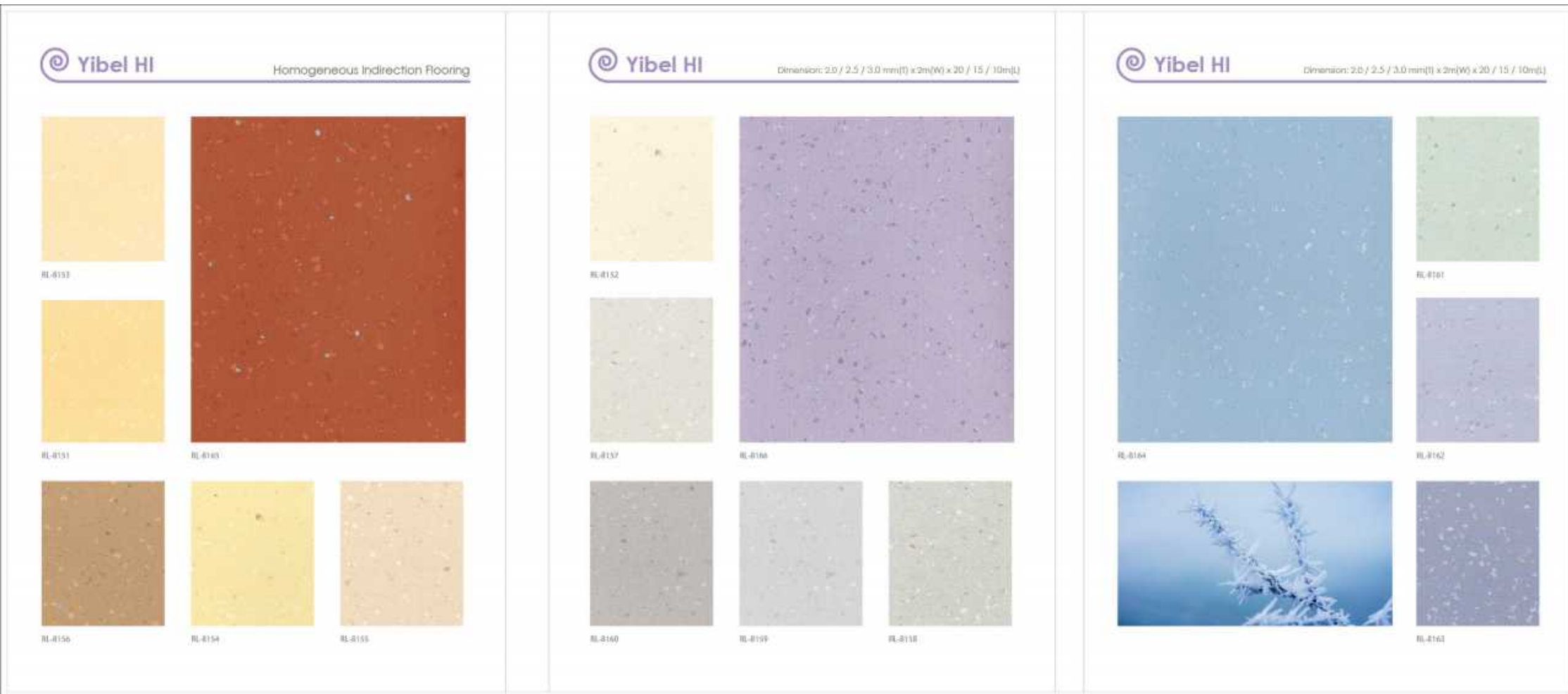
Application: reception, patients room, doctor's office and so on



Yibel HI Homogeneous Indirection Flooring



Anti-static series
Yibel HI homogeneous floor
Application: reception, patients room, doctor's office and so on



Anti-static series
 Masai homogeneous floor
 Application: reception, patients room, doctor's office and so on

Masai Homogeneous Indirection Flooring



Floor Description Homogeneous			
Floor type	ISO 10581 EN 649		
Thickness	EN ISO 24346 EN 426	mm	2.0/2.5/3.0
Weight	EN 610	g/m²	2466/3500/4300
Width of sheet	EN ISO 24341 EN 426	cm	230
Length of sheet	EN ISO 24341 EN 426	m	25/15
Classification			
Product specification	—	—	EN ISO 10581 EN 649
European classification	EN ISO 10876 EN 683	class	34-43
Fire rating	EN 13 501-1	class	BS-s1
	ASTM E648-05	class	Class 1
	CAN/ULC S102.3	—	tested in accordance
Static electrical propensity	EN 1815	kV	< 2
Performance			
Abrasion resistance	EN 660-2	mm³	< 2.0
Abrasion group	MP 189	group	7
Blister content	ISO 10581	type	1
Dimension stability	EN ISO 13999 EN 434	%	< 0.40
Impact sound reduction	EN ISO 717-2	dB	3
Residual indentation	EN ISO 24343 EN 433	mm	< 0.2
Castor wheel test	ISO 4918 EN 425		OK
Thermal conductivity	EN ISO 10456 EN 12 524	W/m.K	≈ 0.25
Color fastness	EN 28 195-002	degree	≥ 6
Surface treatment	—		PUK
Chemical resistance	EN ISO 24987 EN 423	class	Good
Antibacterial property	ISO 22196		> 99% inhibits growth
Environment / Indoor Air Quality			
Certificates	Fluorescore®		

Strong anti-bacteria
Homogeneous structure during the production and cleaning meeting avoid any bacteria growing

Easy maintenance
No staining on the surface for convenient cleaning, including the cleaning and

Health care
Without any heavy metal and asbestos substance, passing the standard of ISO 10581 and ISO 10582

Stain resistance
High glossing, making flooring resistant to stain and avoid the damage of surface

Easy cleaning
No staining on the surface for convenient cleaning, including the cleaning and

Anti-static resistance
Homogeneous structure avoids the static electricity, meeting with other flooring materials, between the floor and the wall or ceiling material

Excellent fire resistance
Special high fireproofing technology makes the floor surface resistant to fire

Sound insulation
Natural material structure makes excellent sound insulation in some noisy area

Moisture resistance
Cleaning, washing and special chemicals prevent bacteria production and prevent staining, avoid the wall staining, meeting standard of water proof and mold proof

Cultural design
Material and color design meet the needs of human, nature style improve your sight view

Static electricity
Special structure design makes avoid static electricity to avoid any damage to human

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theflooringgroup

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2.0T
2.5T
3.0T

Masai

Homogeneous Indirection Flooring



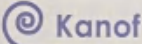
Masai Homogeneous Indirection Flooring




Anti-static series
Masai homogeneous floor
Application: reception, patients room, doctor's office and so on




Anti-static series
KanoF homogeneous floor
Application: reception, patients room, doctor's office and so on

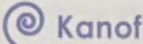


Homogeneous Indirection Flooring







RL-T613




Dimension: 2.0 / 2.5 / 3.0 mm(T) x 2m(W) x 20 / 15 / 10m(L)




RL-T601




RL-T602




RL-T603



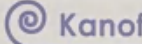
RL-T609




RL-T610




RL-T611




Dimension: 2.0 / 2.5 / 3.0 mm(T) x 2m(W) x 20 / 15 / 10m(L)




RL-T608




RL-T607




RL-T606



RL-T604



RL-T605



RL-T612

Application: patient's room and corridor (wood heterogeneous flooring is comfortable make patients feel like at home)



PERFORMANCE / 性能			
Abrasion resistance / 耐磨性	EN 660-1	mm	<0.15
Abrasion group / 耐磨等级	EN 669	Group	7
Dimensional stability / 尺寸稳定性	EN 434	%	<0.4
Residual indentation / 残余凹陷度	EN 433	mm	0.04
Thermal conductivity / 热传导性	EN 12524	W/(m.K)	0.25
Colour fastness / 颜色稳定性	EN20165 - R02	Degree	>6
Chemical products resistance / 化学抗性	EN 423		OK
Anti-bacterial and fungicidal / 抗菌防霉性能	-		OK
Special maintenance treatment / 特殊维护处理	-		UV



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Reliance

Yibel PVC Heterogeneous Flooring
 易贝尔 商用PVC卷材地板



Anti-static series
Yibel heterogeneous floor - wood series
Application: patient's room and corridor (wood heterogeneous flooring is comfortable make patients feel like at home)



Application: patient's room and corridor (comfortable and looks fresh)

 <p>Reserve anti-bacteria Inhibit resistant system. Guard the production of bacteria, avoiding spread and increasing growth. 抑制抗生系統，防止細菌產生，避免擴散，增加生長。 抑制抗生系統，防止細菌產生，避免擴散，增加生長。</p>	 <p>Imitation resistance Immunogenic stimulus, blocks the forming of bacteria, and stops from being resistant. 免疫原性刺激，阻斷細菌形成，防止產生抗藥性。 免疫原性刺激，阻斷細菌形成，防止產生抗藥性。</p>	 <p>Build sun Improve any insect, better development, and increase the growth rate. 改善任何昆蟲，促進發育，增加生長速率。 改善任何昆蟲，促進發育，增加生長速率。</p>
 <p>Water resistance With extremely strong. Being resistant to acid & alkali, and reduce of sulfate. 具有極強之耐性，耐酸耐鹼，降低硫酸。 具有極強之耐性，耐酸耐鹼，降低硫酸。</p>	 <p>Easy cleaning Easy cleaning on the surface for maintenance, cleaning, reducing the cleaning cost. 易於清潔，減少維護，清潔，降低清潔成本。 易於清潔，減少維護，清潔，降低清潔成本。</p>	 <p>Resistant metabolism Inhibit the metabolism of bacteria, and reduce the growth rate. 抑制細菌代謝，減少生長速率。 抑制細菌代謝，減少生長速率。</p>
 <p>Temperature insulation Insulating, high temperature, reducing the absorption, reduces the damage against the decomposition. 隔熱，高溫，減少吸收，減少損傷，減少分解。 隔熱，高溫，減少吸收，減少損傷，減少分解。</p>	 <p>Sound insulation Natural resistance, reduces noise, reduces the absorption of sound, reduces the damage against the decomposition. 自然阻聲，減少噪音，減少吸音，減少損傷，減少分解。 自然阻聲，減少噪音，減少吸音，減少損傷，減少分解。</p>	 <p>Water resistance Inhibit the metabolism of bacteria, and reduce the growth rate. 抑制細菌代謝，減少生長速率。 抑制細菌代謝，減少生長速率。</p>
 <p>Colorful design Natural natural color, design choice plenty of colors, more choice, reduces the damage against the decomposition. 自然自然色，設計選擇豐富色彩，更多選擇，減少損傷，減少分解。 自然自然色，設計選擇豐富色彩，更多選擇，減少損傷，減少分解。</p>	 <p>Electric surface Electric surface, reduces noise, reduces the absorption of sound, reduces the damage against the decomposition. 電氣表面，減少噪音，減少吸音，減少損傷，減少分解。 電氣表面，減少噪音，減少吸音，減少損傷，減少分解。</p>	 <p>Water resistance Inhibit the metabolism of bacteria, and reduce the growth rate. 抑制細菌代謝，減少生長速率。 抑制細菌代謝，減少生長速率。</p>



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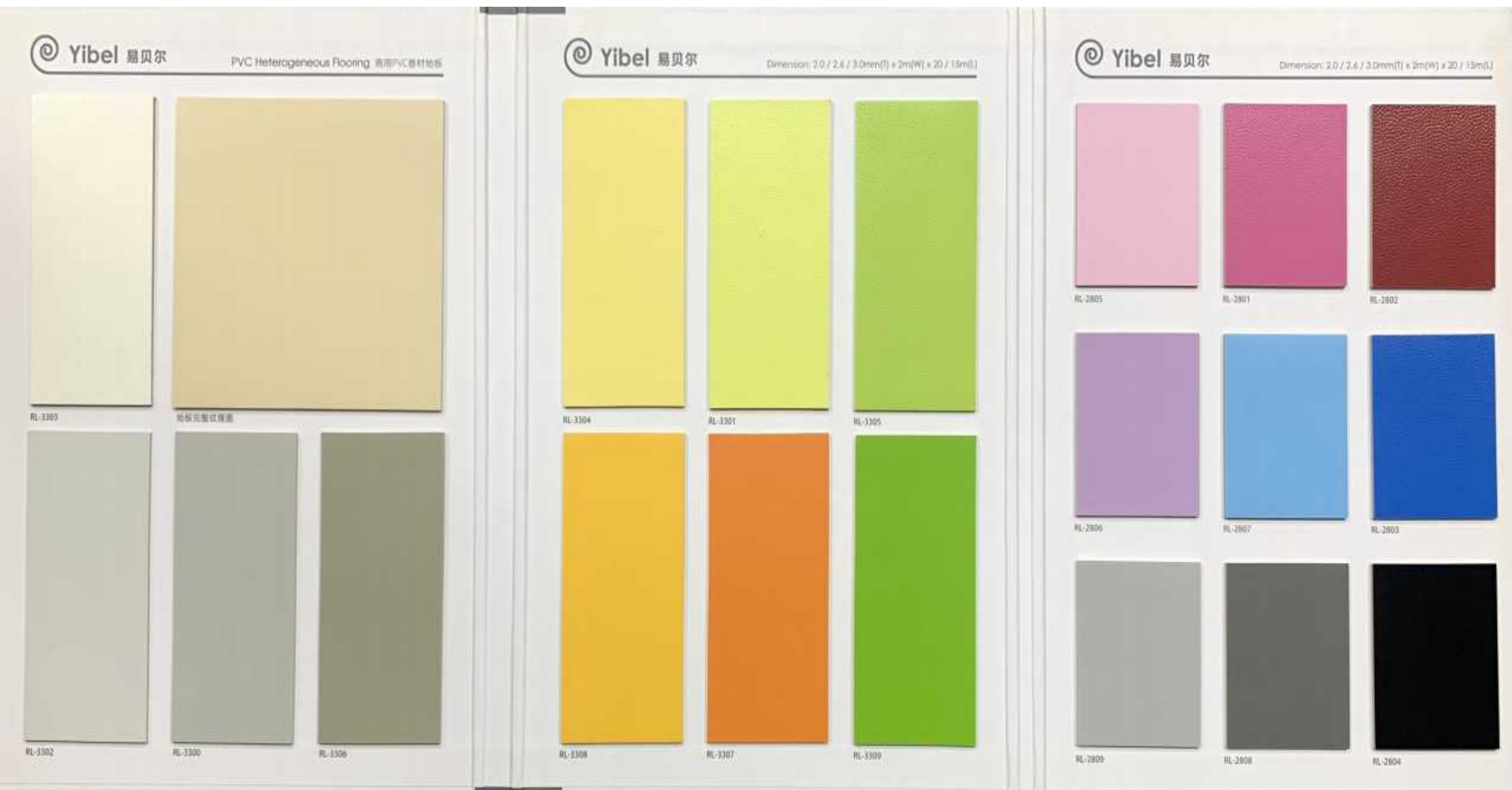
商用 PVC 卷材地板 PVC Heterogeneous Flooring



Yibel PVC Heterogeneous Flooring
 易贝尔 商用PVC卷材地板



Anti-static series
Yibel heterogeneous floor - solid color series
Application: patient's room and corridor (comfortable and looks fresh)



Anti-static series
 Kavia heterogeneous floor - grain series
 Application: patient's room and corridor (comfortable and special design)

Kavia 卡维姬 PVC Heterogeneous Flooring 商用PVC卷材地板



CHARACTERISTICS / 规格

Sheet thickness / 总厚度	EN 425	mm	2.0 / 2.5 / 3.0
Wear layer thickness / 耐磨层	EN 425	mm	0.4 / 0.5 / 0.7
Weight / 重量	EN 425	g/m ²	2100 / 2300 / 2500
Width / Length of sheet / 宽度 / 长度	EN 425	m / ft	2.00 / 2.075

CLASSIFICATION / 分类

Many products application / 产品应用	EN 685	-	-
European classification / 欧洲标准	EN 649	Class	34-47
Rating / 等级	-	Class	KS
EN 12501-1	Class	B ₁	-
Fire rating / 防火等级	EN 4102	-	B1
EN 13501-1	-	Class	B1
EN 13501-2	-	Class	B1
EN 13501-3	-	Class	B1
EN 13501-4	-	Class	B1
EN 13501-5	-	Class	B1
EN 13501-6	-	Class	B1
EN 13501-7	-	Class	B1
EN 13501-8	-	Class	B1
EN 13501-9	-	Class	B1
EN 13501-10	-	Class	B1
EN 13501-11	-	Class	B1
EN 13501-12	-	Class	B1
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EN 13501-98	-	Class	B1
EN 13501-99	-	Class	B1
EN 13501-100	-	Class	B1

EXPERIMENTAL DATA / 数据

Abasion resistance / 耐磨性	EN 660-1	mm	<0.15
Abasion group / 耐磨等级	EN 649	Group	I
Dimensional stability / 尺寸稳定性	EN 424	%	<0.4
Residual infestation / 残余虫卵性	EN 423	mm	0.04
Thermal conductivity / 热传导性	EN 12524	W/m.K	0.25
Colour fastness / 颜色稳定性	EN 20105-002	Degree	>4
Chemical products resistance / 化学品抗性	EN 423	-	OK
Anti-bacterial and fungicidal / 抗菌防霉性能	-	-	OK
Special maintenance treatment / 特殊维护处理	-	-	UV

Energy anti-bacteria
 Energy resistance property during the production and during the use of the product, ensuring the product's energy resistance and anti-bacterial properties.

Water resistance
 P.V.C. flooring is water resistant and does not absorb water, ensuring the product's water resistance and anti-bacterial properties.

Sound insulation
 Sound insulation property during the production and during the use of the product, ensuring the product's sound insulation and anti-bacterial properties.

Colour design
 Colour design property during the production and during the use of the product, ensuring the product's colour design and anti-bacterial properties.

Interpolation resistance
 Interpolation resistance property during the production and during the use of the product, ensuring the product's interpolation resistance and anti-bacterial properties.

Easy cleaning
 Easy cleaning property during the production and during the use of the product, ensuring the product's easy cleaning and anti-bacterial properties.

Static resistance
 Static resistance property during the production and during the use of the product, ensuring the product's static resistance and anti-bacterial properties.

Electric resistance
 Electric resistance property during the production and during the use of the product, ensuring the product's electric resistance and anti-bacterial properties.

Health care
 Health care property during the production and during the use of the product, ensuring the product's health care and anti-bacterial properties.

Abasion resistance
 Abasion resistance property during the production and during the use of the product, ensuring the product's abasion resistance and anti-bacterial properties.

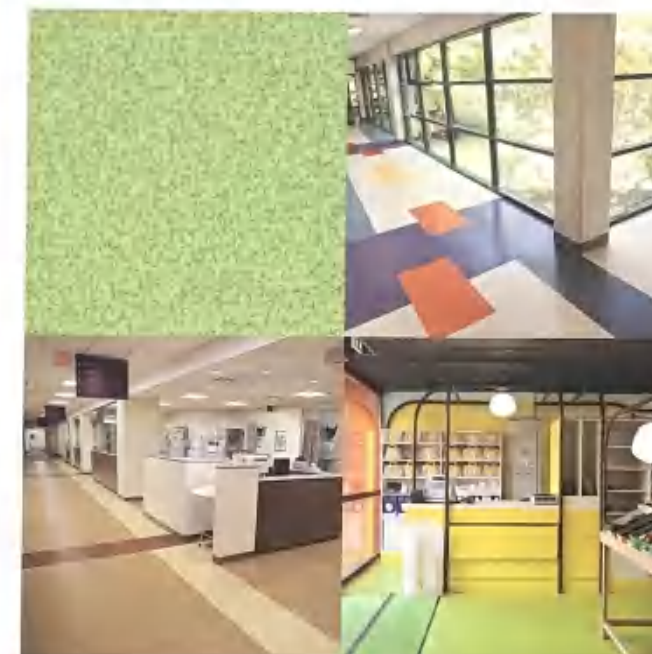
Moisture resistance
 Moisture resistance property during the production and during the use of the product, ensuring the product's moisture resistance and anti-bacterial properties.

瑞勒 Relle flor[®]
 the flooring group

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 Web / 网址: www.relleflooring.com

Kavia 卡维姬

商用PVC卷材地板 PVC Heterogeneous Flooring



Kavia PVC Heterogeneous Flooring 卡维姬 商用PVC卷材地板



Anti-static series
Kavia heterogeneous floor - grain series
Application: patient's room and corridor (comfortable and special design)



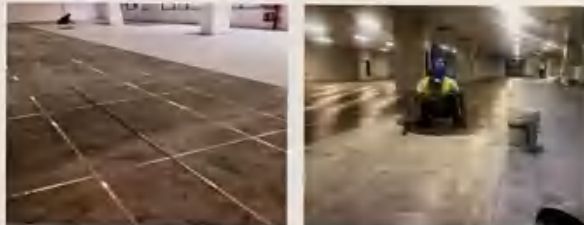
Conductive series

Kavia ESD conductive floor

Application: ICU and operation room

Installation guidance

1. Following Relle PVC floor rolls installation video instruction firstly, prepare qualified cement ground.
2. Polishing the cement ground for one time with Relle polishing machine, then clean all the dust and coating the primer based on the cement ground.
3. When primer becomes dry, making self-leveling layer according to Relle installation video.
4. When Self-leveling becomes dry, just polishing one time lightly with Relle polishing machine.
5. Pave all the copper foil each 60 cm distance on left and warp direction like our photo, the copper foil is self-adhesive, please follow the copper foil with base ground solution file.
6. Coating adhesive inside all area, when glue becomes transparent from white color, it means glue working now.
7. Pave the conductive floor rolls/ tiles, also follow Relle standard installation video.



TEST ITEMS	STANDARD	RESULT
Thickness	ISO 24346-EN438 SJ/T11236-2001	2.0/2.5/3.0mm
Dimension	ISO 24341-EN438 SJ/T11236-2001	Conductive roll: 2.0mm*2.0m*20m 2.5/3.0mm*2.0m*15m Conductive tile: 600mm*600mm*900mm*900mm
Weight	EN438	Conductive roll: 3.3 kg/sqm, 4.1kg/sqm, 4.96kg/sqm Conductive tile: 4.3kg/sqm, 5.4kg/sqm, 6.45kg/sqm
System resistance	DIN 51953 SJ/T11236-2001	Conductive <1 0*10 ⁹ Ω
Decay period of static voltage	SJ/T10894-2008	≤2S
Starting voltage	SJ/T11236-2001	VI <100V
Amount of wear	SJ/T11236-2001	≤0.02g/cm ²
Combustion property	GB8624-2006 SJ/T11236-2001	B ₁ , s1.11 FV-0
Smoke production	GB8624-2006	≤750%, min.
Smoke toxicity	GB8624-2006	2A ₁
Anti-bacterial	ISO 22196	Anti bacterial rate I
Slip resistance	DIN51130 EN13893	R10 ≥0.3
Antistatic properties	EN 1815	≤2.0 kV
Toxic testing	GB18586-2001	Suitable
Formaldehyde emission	EN717-1	N.D
Residual indentation	EN433	≤0.10mm
Effect of castor chair	EN426	No delamination no cracks
Dimensional stability	EN434	≤0.40%
Color fastness	ENISO 105 B02	≥6
Impact sound absorption vli	ENISO 0717/2	Apprx 2dB
Resistance to staining	EN423:2001	Not affected



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Web: www.relleflooring.com



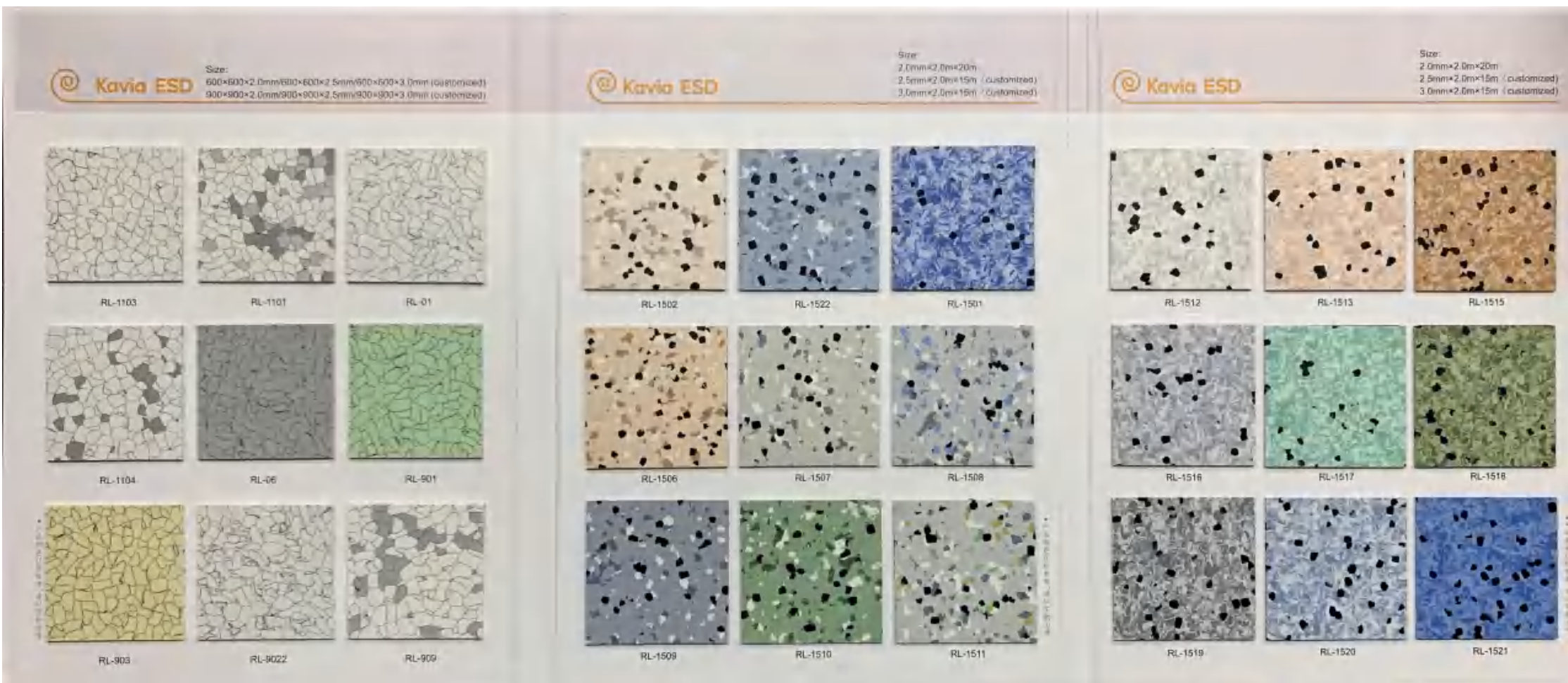
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Conductive homogeneous floor rolls / ESD tiles —
most professional pattern in ICU & Operation Rooms /
Data center,Electronical factory etc.



Conductive series
Kavia ESD conductive floor
Application: ICU and operation room



Technical data for PVC homogeneous rolls series



DESCRIPTION	STANDARD	UNIT	RESULT
Total thickness	EN428	mm	2.0/2.5/3.0
Weight	EN430	kg/m²	2.8/3.5/4.5
Width of sheet	EN426	cm	200
Length of sheet	EN426	lm	20/20/15
CLASSIFICATION			
Norm/Product specification			EN685
European classification	EN649	class	34-43
Fire rating	EN 13501-1	class	Bfl-s1
	GB 8624-2012	-	B1(B-s1,t0)
Toxic testing	GB 18586-2001	-	qualified
Static electrical propensity	EN1815	KV	< 2
Electrical resistance	EN 1081	Ω	≥10 ⁸⁻¹⁰
Slip resistance dry	EN13893	-	≥0.3
Slip resistance wet	DIN 51130	class	R10
Dynamic coefficient of friction	EN13893	class	DS
VOC hazardous substance	ISO 16000-6	μg/m³	< 10
DOP content	EN15777	-	None
Heavy metal	EN71-3	-	None
Impact sound reduction	ISO10140	dB	8
	ISO717-2		
PERFORMANCE			
Abrasion resistance	EN 660-2	mm	≤2.0
Abrasion group	EN649	Group	T
Type binder content	ISO 10581	type	I
Dimensional stability	EN434	%	≤0.4
Caster chair test	EN 425	-	OK
Thermal conductivity	EN 12524	W/(m.K)	0.25
Residual indentation	EN433	mm	0.04


Chemical products resistance	EN 423	-	OK
Colour fastness	EN20 105-B02	Degree	≥6
Anti-bacterial activity	JIS Z 2801	-	>99%
Chemical products resistance	EN423		OK
Anti-bacterial and fungicidal	ISO 22196	-	> 99%
Special maintenance treatment	-	-	PUR
Color reference	-	-	600
Certificate			Floorscore &SGS&CE

Technical data for PVC heterogeneous rolls series



DESCRIPTION	STANDARD	UNIT	RESULT
Total thickness	EN428	mm	2.0/2.6/3mm
Wear layer thickness	EN429	mm	0.4/0.5/0.7
Weight	EN430	kg/m ²	2.8/3.5/4.0
Width of sheet	EN426	cm	200
Length of sheet	EN426	lm	20/15/10
CLASSIFICATION			
Fire rating	DIN4102	-	B1
	GB8624-2006	-	GB 8624 B _{fl} -s1
Toxic testing	GB18586-2001	-	Qualified
Static electrical propensity	EN1815	KV	< 2
Slip resistance dry	EN13893	-	≥0.3
Slip resistance wet	DIN 51 130	Class	R9
PERFORMANCE			
Abrasion group	EN649	Group	T
Dimensional stability	EN434	%	≤0.4
Residual indentation	EN433	mm	0.04
Flexibility	EN435	-	Excellent
Colour fastness	EN20 105-B02	Degree	≥6
Chemical products resistance	EN423	-	UV treatment
Surface treatment	-	-	OK
Impact sound reduction	EN ISO 717/2	-	Approx.4dB
Indentation	EN433	mm	Approx.0.04
Hygiene treatment	MRSA	-	Very good

Technical data for conductive flooring

		
TEST ITEMS	STANDARD	RESULT
Thickness	ISO 24346-EN430	2.0mm
	SJ/T11236-2001	
Width	ISO 24341-EN426	2m
	SJ/T11236-2001	
Length	ISO 24341-EN426	20m
	SJ/T11236-2001	
System resistance	DIN 51953	Conductive $< 1.0 \times 10^6 \Omega$
	SJ/T11236-2001	
Decay period of static voltage	SJ/T10694-2006	$\leq 2S$
Starting voltage	SJ/T11236-2001	IVI $< 100V$
Amount of wear	SJ/T11236-2001	$\leq 0.02g/cm^2$
Combustion property	GB8624-2006	B _{fl-s1,t1}
	SJ/T11236-2001	FV-0
Smoke production	GB8624-2006	$\leq 750\%$, min
Smoke toxicity	GB8624-2006	ZA ₃
Anti-bacterial	ISO 22196	Anti bacterial rate I
Slip resistance	DIN51130	R10
	EN13893	≥ 0.3
Antistatic properties	EN 1815	$\leq 2.0 kV$
Toxic testing	GB18586-2001	Suitable
Formaldehyde emission	EN717-1	N.D
Residual indentation	EN433	$\leq 0.10mm$
Effect of castor chair	EN425	No delamination no cracks
Dimensional stability	EN434	$\leq 0.40\%$
Color fastness	ENISO 105 B02	≥ 6
Impact sound absorption vli	ENISO 0717/2	Apprpx 2dB
Resistance to staining	EN423:2001	Not affected

Certificate of Registration



The Governing Board of
Q.A. International Certification Limited
hereby grants to:

RELLE DECORATION MATERIAL GUANGZHOU CO.,LTD

Unified Social Credit Code: 91310116756956424L

Registration No.: QAIC / CN / 200635

*(hereinafter called the Registered Company) the right to be listed in the Directory of Registered Companies in respect of the services listed below. These services shall be offered by the Registered Company at or from only the active business address given below in accordance with the quality management system in compliance with **ISO 9001:2015**.*

Business License Address:

NO.306 BAISHI INDUSTRIAL PARK, NO.280 JIXIAN ROAD,BAIYUN AREA, GUANGZHOU

Active Business Address to which this Certificate is registered:

NO.306 BAISHI INDUSTRIAL PARK, NO.280 JIXIAN ROAD,BAIYUN AREA, GUANGZHOU

Approved Scope to which this Certificate refers:

The Manufacture and Sales of Rubber Floorings

(Please note that the above scope represents the certified activity of the named organization and as such, the organization may undertake additional activities that are not covered under this certification).

Signed for and on behalf of the Board

CHIEF EXECUTIVE

SCHEME MANAGER

Certificate Issue Date : 3rd December 2020 - Certificate Renewal Before : 2nd December 2021
Date of Initial Registration : 3rd December 2020 - Re-Certification Before : 2nd December 2023

This Certificate of Registration is granted subject to the Regulations approved by the Board.
The information of this certificate can be searched on the website of CNCA (www.cnca.gov.cn).
The certified organization should apply for regular audit to maintain its qualification.

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QA International Certification Ltd.
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Darlington
United Kingdom
DL1 4GG

Tel: +44 (0)1325 384272
Fax: +44 (0)1325 480980
www.qai.co.uk



The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 046.

Certificate of Registration



The Governing Board of
Q.A. International Certification Limited
hereby grants to:

RELLE DECORATION MATERIAL GUANGZHOU CO.,LTD

Unified Social Credit Code: 91310116756956424L
Registration No.: QAIC / CN / 200636

*(hereinafter called the Registered Company) the right to be listed in the Directory of Registered Companies in respect of the services listed below. These services shall be offered by the Registered Company at or from only the active business address given below in accordance with the environmental management system in compliance with **ISO 14001:2015**.*

Business License Address:

NO.306 BAISHI INDUSTRIAL PARK, NO.280 JIXIAN ROAD,BAIYUN AREA, GUANGZHOU

Active Business Address to which this Certificate is registered:

NO.306 BAISHI INDUSTRIAL PARK, NO.280 JIXIAN ROAD,BAIYUN AREA, GUANGZHOU

Approved Scope to which this Certificate refers:

The Manufacture and Sales of Rubber Floorings and Management of Related Environmental Aspects.

(Please note that the above scope represents the certified activity of the named organization and as such, the organization may undertake additional activities that are not covered under this certification).

Signed for and on behalf of the Board

CHIEF EXECUTIVE

SCHEME MANAGER

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The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 046

TEST REPORT

No. : GZIN2212007390CM

Date : Dec 30, 2022

Page: 1 of 3

CUSTOMER NAME: RELLE DECORATION MATERIAL GUANGZHOU CO., LTD.
ADDRESS: NO.313 D4 BAISHI PLAZA INDUSTRY, NO.280 JIXIAN RD, BAIYUN AREA, GUANGZHOU

Sample Name : PVC FLOORING

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

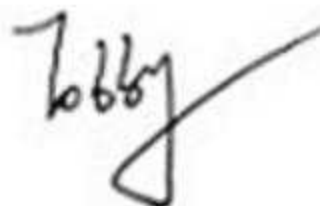
Date of Receipt : Dec 22, 2022

Testing Start Date : Dec 22, 2022

Testing End Date : Dec 30, 2022

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. GZ Branch Testing
Center



Toby Yang
Authorized signatory



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Member of the SGS Group (SGS SA)

TEST REPORT

No. : GZIN2212007390CM

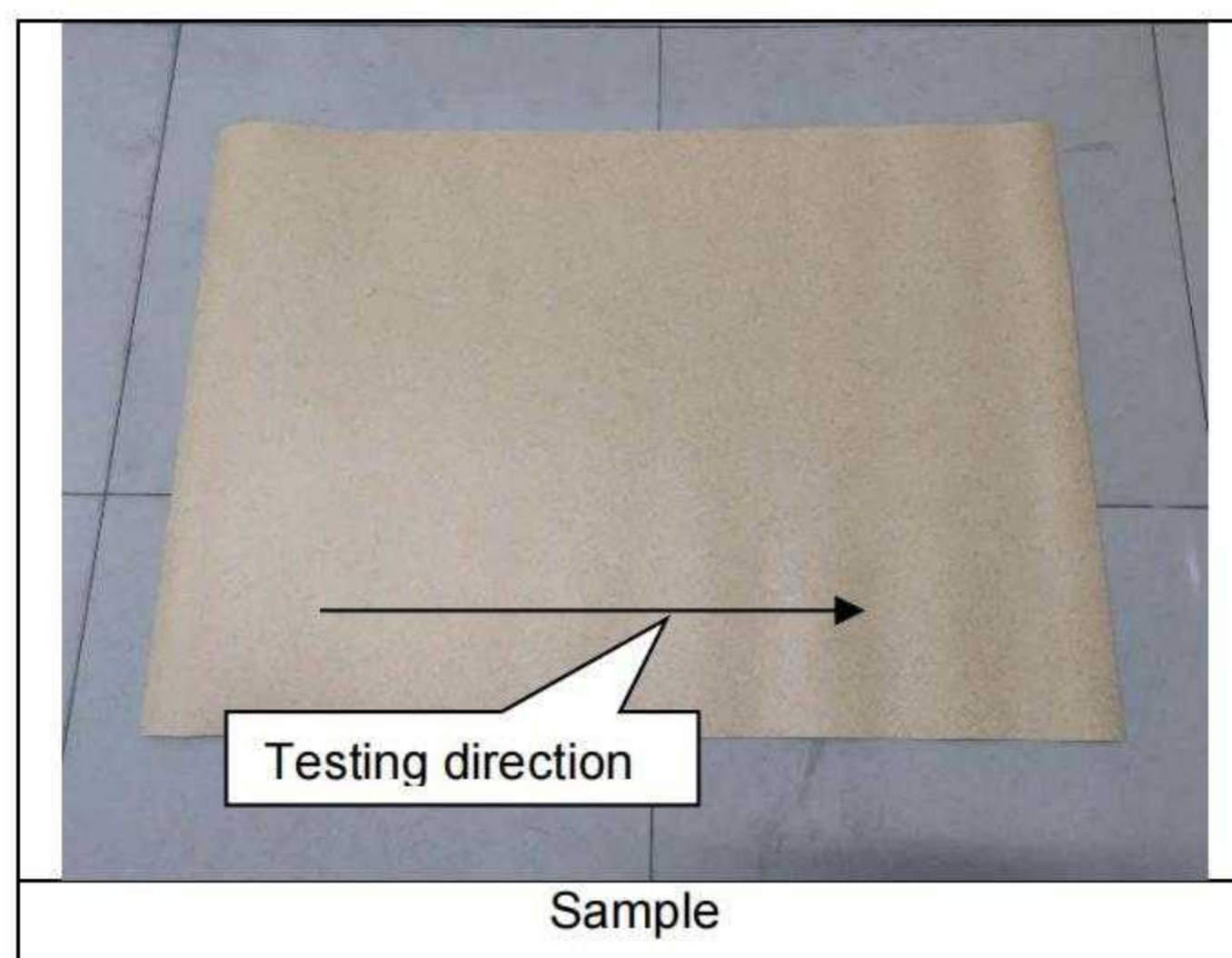
Date : Dec 30, 2022

Page: 2 of 3

Summary of Results:

No.	Test Item	Test Method	Result
1	Anti-Slip Property	DIN 51130:2014-02	Critical angle of inclination: 9.6° Classification: R9*

Original Sample Photo:



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TEST REPORT

No. : GZIN2212007390CM

Date : Dec 30, 2022

Page: 3 of 3

Test Item: Anti-Slip Property

Sample Description: Flooring, See photo

Test Method: DIN 51130:2014-02 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger, walking method - Ramp test

Test Condition:

Specimen: 1000mm×500mm, 1pc, see photo

Testing surface: see photo

Testing direction: see photo

Test result:

Test item(s)	Test result(s)	Classification
Anti-Slip Property (oil-wet ramp test)	Critical angle of inclination: 9.6°	R9

Classification of oil-wet ramp test:

Classification	Angle (degrees)
R9	6°≤X≤10°
R10	10°<X≤19°
R11	19°<X≤27°
R12	27°<X≤35°
R13	>35°

Appendix information: The above test was carried out by other laboratory in SGS group.

***** End of report*****



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TEST REPORT

No. : XMCCM220100030

Date : Jan.21, 2022

Page: 1 of 7

RELLE DECORATION MATERIAL GUANGZHOU CO.,LTD

NO.313,D4 BAISHI PLAZA,NO.280 JXIAN RD,BAIYUN AREA,GUANGZHOU.

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : HOMOGENOUS PVC FLOORING
 SGS Ref. No. : XMSL2112010605TX, GZIN211201827CCM, SHCCM211203943, CANMLC2112333901, XMAFN211200927E
 Material : POLYVINYL CHLORIDE
 Spec. : 2.0M×20M
 Test required : Selected test(s) as requested by applicant
 Date of Receipt : Dec.07, 2021
 Test Period : Dec.07, 2021 to Jan.21, 2022

Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for
 SGS-CSTC Standards Technical
 Services Co., Ltd. XM Branch Testing Center



Civi Huang
 Authorized Signatory



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TEST REPORT

No. : XMCCM220100030

Date : Jan.21, 2022

Page: 2 of 7

Sample Information:

PVC Flooring, See the photo

Test Result(s):

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Residual indentation	ISO 24343-1:2007	Specimen: 60mm×60mm×2.2mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h → 500N, 150min → Recovery time: 150min	0.04mm
2	Resistance to staining	ISO 26987:2008	See Annex A	Index 0: Not affected See Annex A
3	Colour Fastness To Light	ISO 105-B02:2014	Use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used	After standard 6 grade blue wool: 5(white) & 6(others)
4	Effect of a castor chair	ISO 4918:2009	Cycles: 25000 Load: 90kg	No visible damage
5	Wear resistance	EN 660-2:1999 +A1:2003; EN 649:2011	See Annex B	1.6mm ³ /100revolutions Wear group: T See Annex B
6	Slip resistance	EN 13893:2002	Specimen thickness: 2.2mm Testing speed: 0.26m/s	Dynamic coefficient of friction: 0.35
7	Formaldehyde emission	With reference to EN 717-1:2004	Analysis was performed by UV-Vis.	ND Class E1 See Annex C
8	Thermal conductivity	EN 12667:2001 Heat flow meter method	Specimen: 300mm×300mm×2.2mm, 1pcs, density is about 1360 kg/m ³ Mean temperature: 25.45°C Temperature difference: 9.16°C	0.057 W/(m·K)
9	Thermal resistance			0.038 (m ² ·K)/W
10	Antimicrobial activity	ASTM G 21-13	See Annex D	Level(after 28 days): 0 Grade See Annex D

Note: 1. All test specimens were cut from the samples, see the photo.

2. ND=Not Detected (<MDL)

3. The test results of test items 8~9 cannot be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.

4. All the test items were carried out by SGS internal laboratories.

5. The test results of test items 1~9 were copied from XMCCM211201393. Date: Dec.24,2022.

***** To be continued*****



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TEST REPORT

No. : XMCCM220100030

Date : Jan.21, 2022

Page: 3 of 7

Annex A: Result of the staining resistance

Test Method:

ISO 26987:2008 Resilient floor coverings – Determination of staining and resistance to chemicals

Pretreatment condition: 23±2°C, 50±5%RH, 24h

The main duration of contact shall be 2h. If a stain appears on the test piece after 2h, a new test shall be conducted for a period of 30 min. Examine the residual staining.

Test Result:

NO.	Stain agent	Contact time	Result	Contact time	Result
1	Acetone	2h	0	-	-
2	Coffee (120g coffee per litre of water)	2h	0	-	-
3	Sodium hydroxide 25% solution	2h	0	-	-
4	Hydrogen peroxide 30% solution	2h	0	-	-
5	Shoe Polish	2h	0	-	-
6	Iodine: 13g/L solution in alcohol	2h	0	-	-
7	Animal blood (blood of chicken)	2h	0	-	-
8	Urine	2h	0	-	-
9	Citric acid 10% solution	2h	0	-	-
10	Acetic acid 30% solution	2h	0	-	-

Note: The above stain agents were selected as requested by client.

Expression of results:

Index	Effect of the test after cleaning / abrasion
0	Not affected
1	Slightly
2	Moderate
3	Severe

***** To be continued*****



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TEST REPORT

No. : XMCCM220100030

Date : Jan.21, 2022

Page: 4 of 7

Annex B: Wear resistance**Test Method:**

EN 660-2:1999+A1:2003 and EN 649:2011

Test Condition:

Weigh the specimens to an accuracy of $\pm 0.1\text{mg}$ after conditioning. Load each wheel with a weight of $(1 \pm 0.01)\text{ kg}$. The flow of abrasive is $(21 \pm 3)\text{g/min}$. Abrade one specimen during 5000 revolutions, with a break for weighing after each cycle of 1000 revolutions, and then test the two remaining specimens. If, however, the first specimen is abraded through before 5000 revolutions, discard it and test the two remaining specimen in cycles of 200 revolutions stopping the test after 2000 revolutions or when the specimen is abraded through.

Calculate the average mass loss. F_m , in milligrams per 100 revolutions for each specimen as follows:

$$F_m = \frac{F_{tot}}{n} \times 100$$

Calculate the loss of volume for each specimen for 100 revolutions as follows:

$$F_v = \frac{F_m}{\rho}$$

Requirement of EN 649:2011:

Characteristic	Requirements for wear group			
	T	P	M	F
Volume loss $F_v(\text{mm}^3)/100\text{revolutions}$	$F_v \leq 2.0$	$2.0 < F_v \leq 4.0$	$4.0 < F_v \leq 7.5$	$7.5 < F_v \leq 15.0$

Test Result:

Test result	Wear group
$F_v = 1.6\text{mm}^3/100\text{revolutions}$	T

*****To be continued*****



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TEST REPORT

No. : XMCCM220100030

Date : Jan.21, 2022

Page: 5 of 7

Annex C

Formaldehyde

Test Method:

With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Specimen: see the photo

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)
- (4) "-" = Not Regulated

Test Result:

Test Item(s)	Unit	MDL	Result
Formaldehyde Emission (In air)	mg/m ³	0.080	ND

Note: (1) mg/m³ = milligram per cubic meter

(2) Reference Limit: EN 13986:2004

Formaldehyde class E1: $\leq 0.124 \text{ mg/m}^3$ airFormaldehyde class E2: $> 0.124 \text{ mg/m}^3$ air

***** To be continued*****



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Annex D

Antimicrobial activity test

Test Method:

With reference to ASTM G 21-13

Test organisms: Aspergillus niger ATCC 9642, Penicillium pinophilum ATCC 11797, Aureobasidium pullulans ATCC 15233, Chaetomium globosum ATCC 6205, Trichoderma virens ATCC 9645

Test Result:

Test Organism(s)	Concentration of spores (spores /mL)	Level (after 28 days)
Aspergillus niger ATCC 9642	1.0 x 10 ⁶	0 Grade*
Penicillium pinophilum ATCC 11797		
Aureobasidium pullulans ATCC 15233		
Chaetomium globosum ATCC 6205		
Trichoderma virens ATCC 9645		

Remark:

- According to ASTM G 21-13 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, observed fungi growth rating on the specimens include:

- 0) –None
- 1) –Traces of growth (less than 10%)
- 2) –Light growth (10 to 30%)
- 3) –Medium growth (30 to 60%)
- 4) –Heavy growth (60% to complete coverage)

- * The microscope(50 X) was used to confirm the observation.

***** To be continued*****



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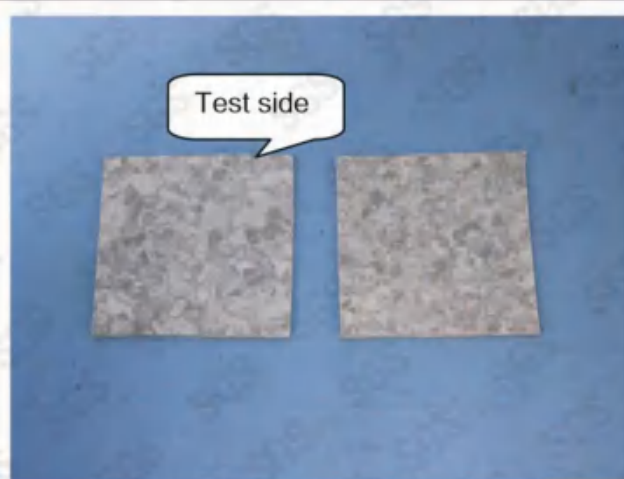
Date : Jan.21, 2022

Page: 7 of 7

Specimen photographs:



Sample



Specimens for Antimicrobial activity test

SGS authenticate the photos on original report only

*****End of report*****



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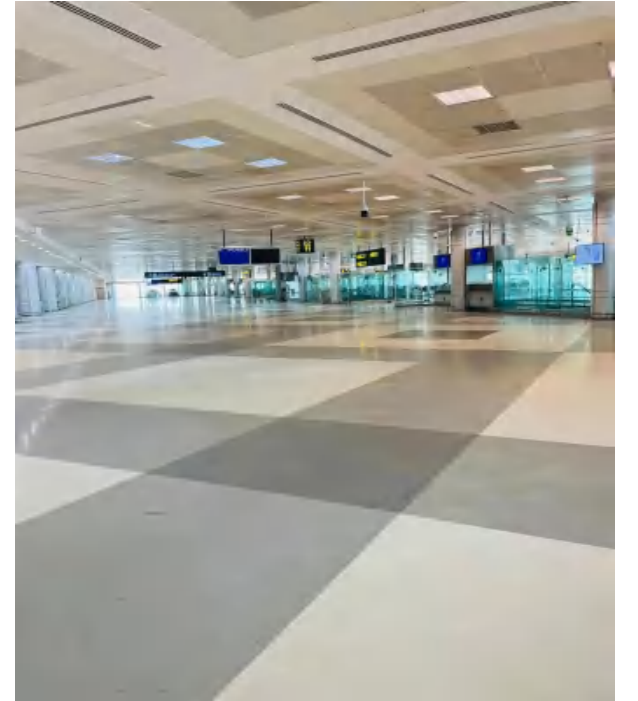
1. Qatar Hamad Airport

POST CONTRACT CONSULTANCY SERVICES FOR DIA REFURBISHMENT	EMPLOYER: 	Submittal Ref. No. DIAR-CCC-DAR-MAR-AR-0017-02
	CONTRACTOR: 	Date 22-Apr-21
SUPERVISION CONSULTANTS: 		

MATERIAL APPROVAL REQUEST	
1. MATERIAL DESCRIPTION (one item only on this form) : Vinyl Flooring (HK HUARUI INDUSTRY SHARE LIMITED)	
Area of Application : Departure and New Arrival Building	B.O.Q. Ref. No. : 1223/DIAR/CA-001
Drawing Ref. : HIA-1382-DEP-TD-A-300.8301	Standards : Qatar Standards & ISO
Specification Ref. : Project Specification Section 24	
Attach as relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate	
2. MANUFACTURER/SUPPLIER :	
Company Name : HK HUARUI INDUSTRY SHARE LIMITED (RELLE)	
Address : Hong Kong	
Local Agent : Intira Contracting & Trading	
3. DELIVERY :	
Country of Origin : China	
Availability : <input type="radio"/> Locally Manufactured <input checked="" type="radio"/> Overseas	
Delivery :	Ex-works/ Total Duration : 2 month 3 Months
	Estimated Time of Arrival on Site : 2 Month
Program :	Date Material Required on Site : (June 2021)
	Latest Date for Order : []
We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and otherwise same timely.	
Submitted by : Mr. Basem Khalil, Project Manager Signature 	
4. CONSULTANT'S COMMENTS :	<input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved As Noted <input type="checkbox"/> Revise and Resubmit <input type="checkbox"/> Rejected <input type="checkbox"/> Sample Required <input type="checkbox"/> Tests Required <input type="checkbox"/> Additional Information Required <input type="checkbox"/> Manufacturer's Guarantee Required
Refer to the comments provided on the attached sheet	
 Signature	DATE 30/5/21

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.





2 . Oriana hospital project in Dhabi,UAE





3. Universal hospital project in Dhabi,UAE



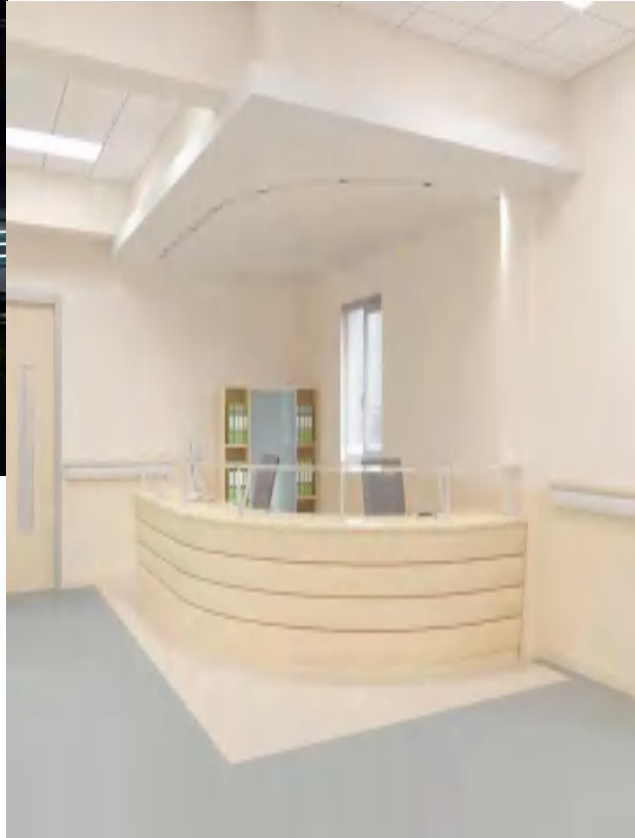
4. Hospital project in Pakistant



5. Qarshi Cardiology and Endocrinology hospital project in Uzbekistan



6. Nurafzo Hospital project in Tajikistan



7. LABAID SPECIALIZED HOSPITAL project in Bangladesh



8. TRISTAR HEATHCARE LLP in India



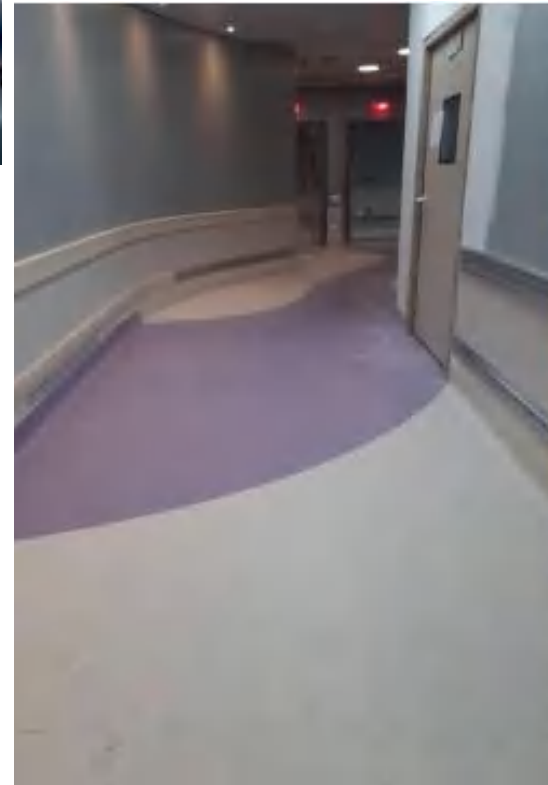
9.Southern Philippines Medical Center project in Philippines



10.San Fernando Hospital project in Panama



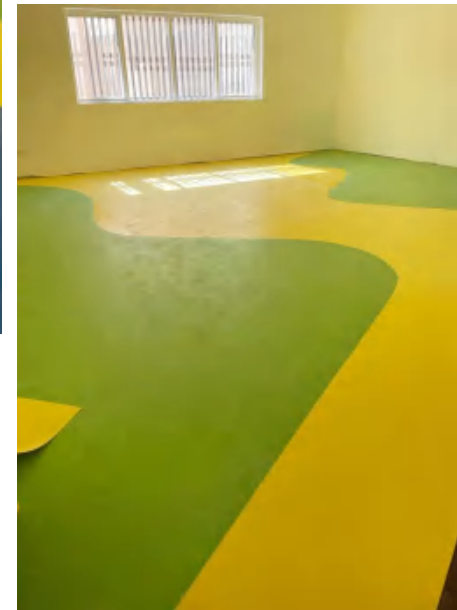
11. NEWCITY MEDICAL PLAZA project in Mexico



12. Affordable house project in Angola

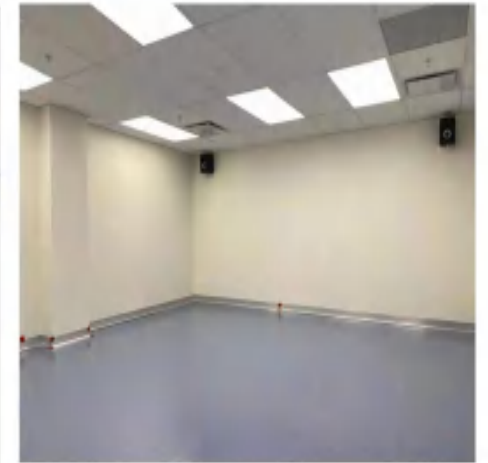
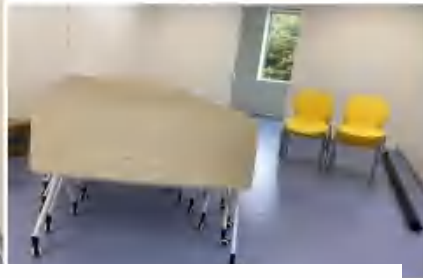


13. Alqoua secondary school in Alain

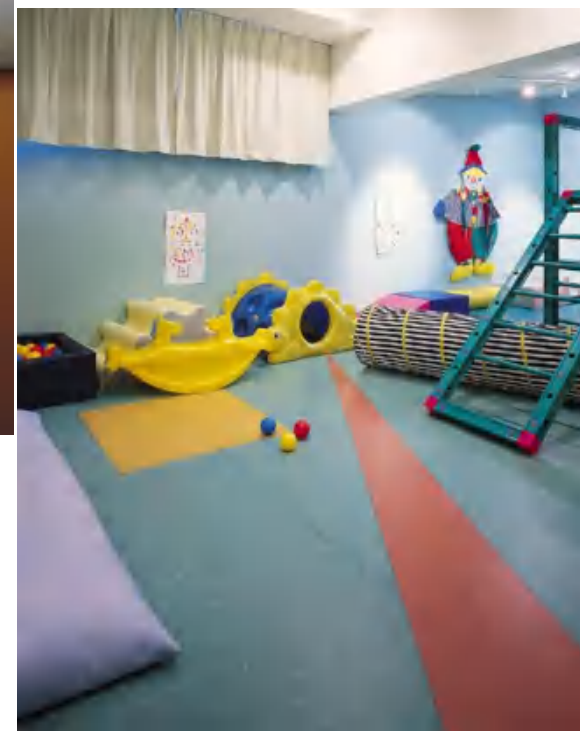


14. Canada St.John's Academy



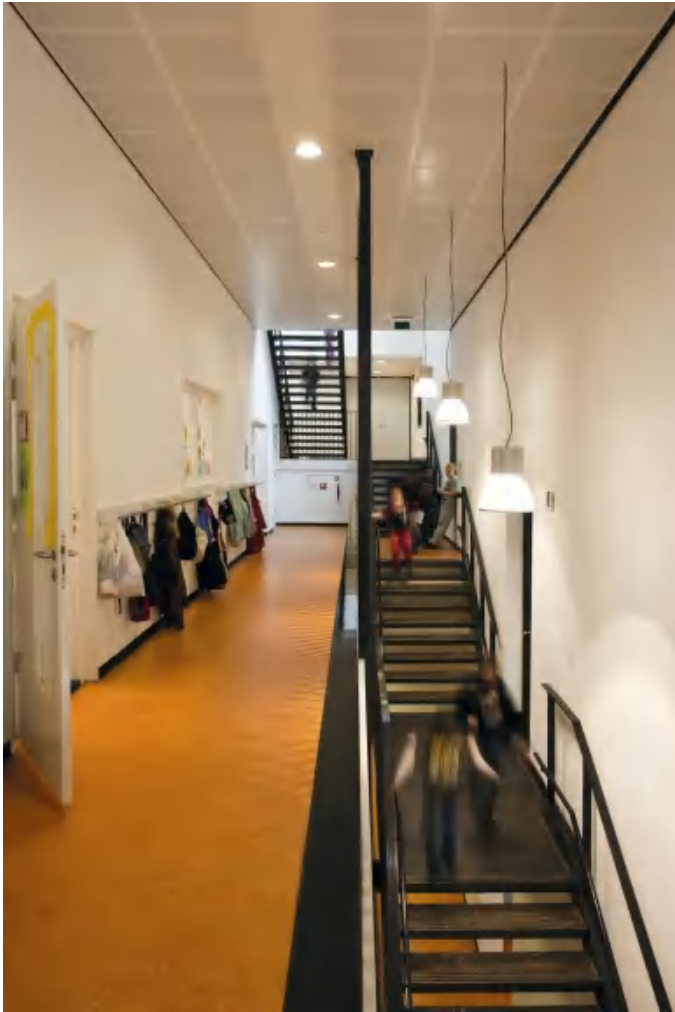


15. Relle other school projects





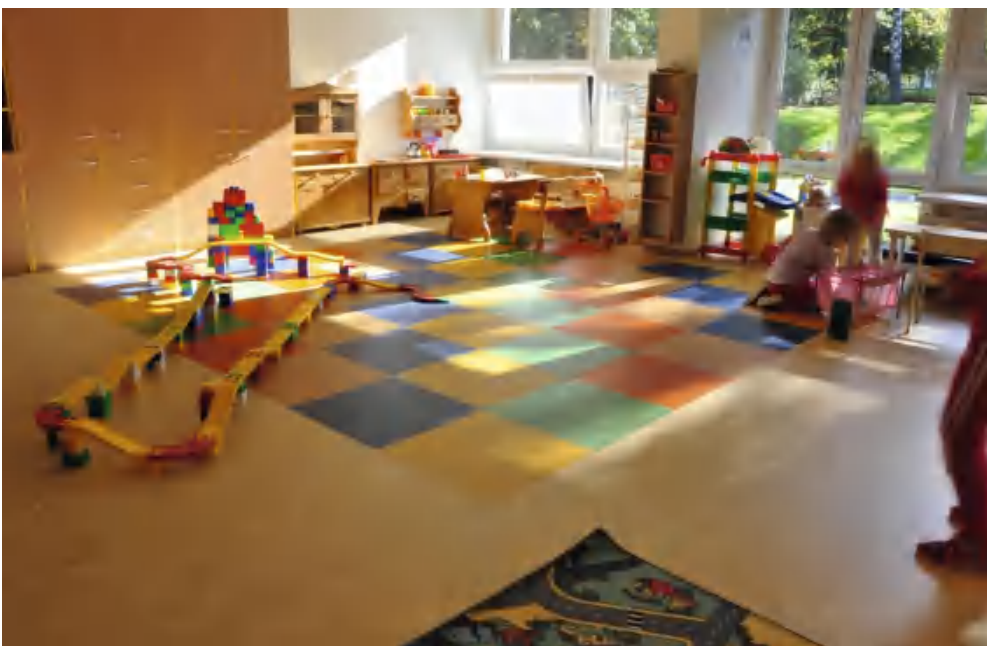




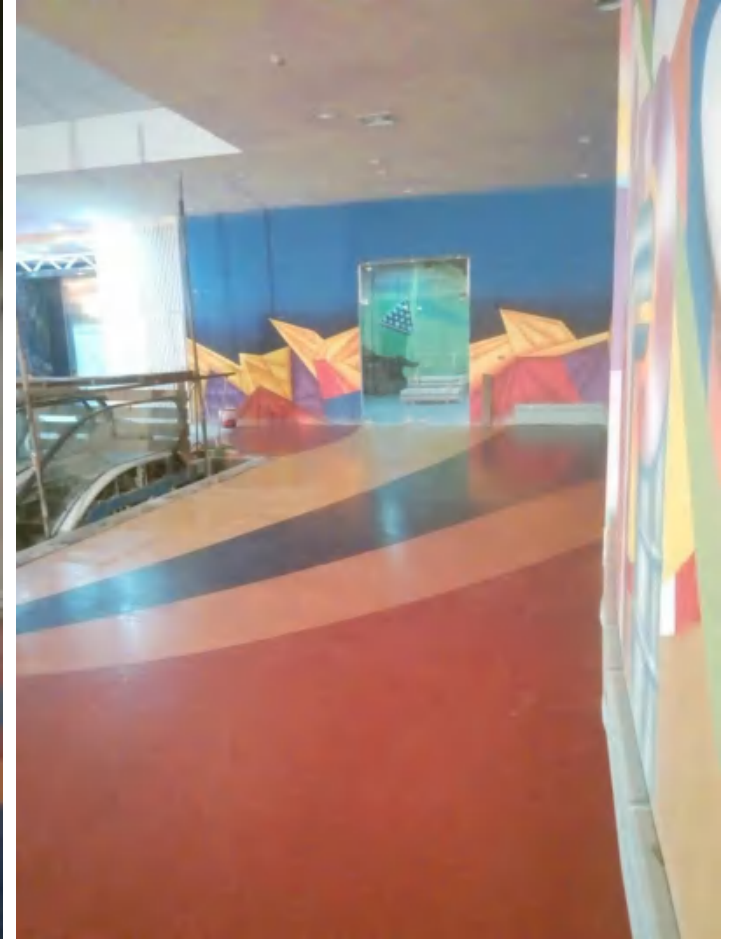
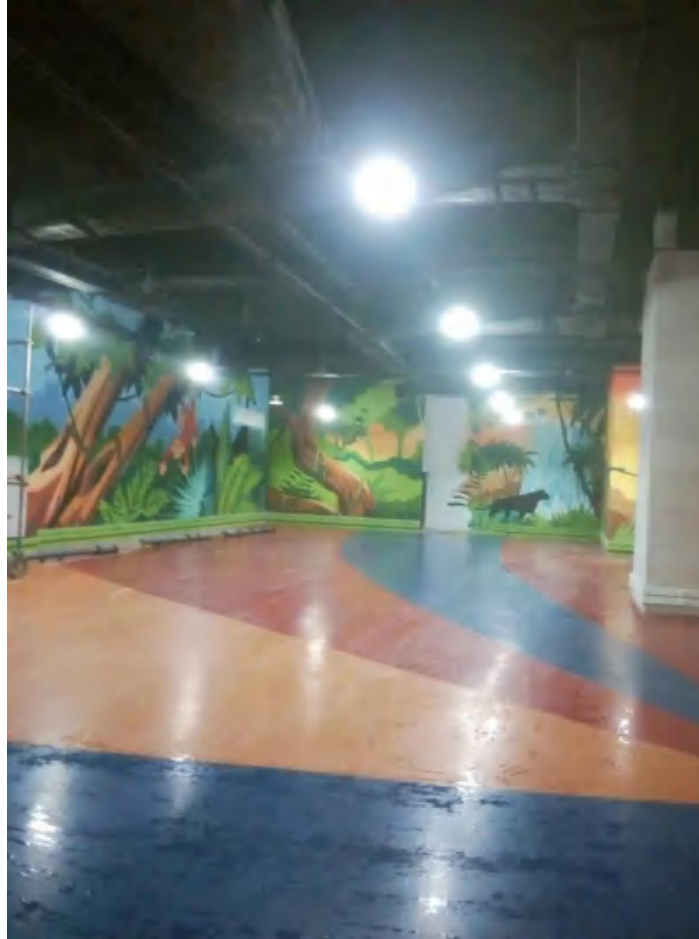








16. Business building project in Iran



17. Rice milling factory in Nigeria



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