



KNIGHT

QUARTZ FLOORING

耐德石英地板



丽杰亚洲有限公司
RIKETT ASIA CO.,LTD



KNIGHT

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耐德石英地板

公司简介

总部位于美国芝加哥的Knight集团是世界上领先的石英地板制造商，拥有50年的石英弹性地板的生产历史和超过1亿5千万平方米的全球应用实例。我们生产的石英地板如今已遍布于世界的各个角落，我们在全球5个洲拥有生产线，它们分布于北美洲、欧洲、亚洲、非洲、南美洲。



专业成就高品质

作为石英地板产品技术和设计的发明者，我们一直是领导行业的创新者，独一无二的生产工艺使得产品质量和设计的诉求得到完美的统一。在Knight高级地板产品上，我们的未来不仅将继续提供优质的地板，而且将提供专业的配套产品，我们正在竭力创造优质产品以使您更容易使用。

我们的服务

与高品质匹配的是高品质的服务，以客户至上为宗旨的专业服务团队是耐德石英地板赖以立足的坚强后盾，我们始终为了能让客户更加满意而不懈努力！



石英地板专家！

Specialist of Quartz Flooring



KNIGHT

QUARTZ FLOORING

耐德石英地板

Our History

Knight Quartz Flooring is the world's leading manufacturer of quartz tile. Built on 50 years of flooring experience with over 150 million square meter installed world wide. American owned, headquartering in Chicago, Knight Quartz Flooring, has products laid in locations all over the world. Knight Quartz Flooring production lines are commissioned in 5 continents including: North America, Europe, Asia, Africa and South America.

Professional & High quality

Innovators in technology and design we continually strive to develop products that meet the needs of today's hectic environments. With over 5 billion square feet in existence we have been the leader in innovation. Our unique manufacturing process results in the perfect blend of quality and designer appeal. We're creating products that make your life easier.

Customer Service

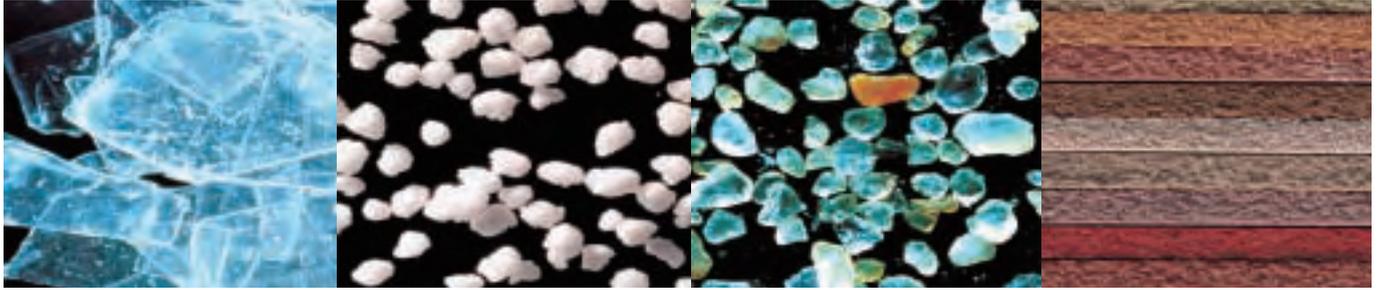
With a high quality product comes the highest quality customer service. Knight Quartz Flooring stands behind its award winning customer service team, dedicated to exceeding your expectations.

The Power of Quartz



原料及生产工艺特性

Raw Materials and Production Process



创新与发展

耐德石英地板的前身为1952年由Rieber AS在挪威卑尔根创立的“丽杰”这一品牌。Mr. Rieber发明了石英地板以替代石棉地板。石英地板的强度远远高于碳基强化地板。历经50年的生产历史和超过1亿5千万平方米的全球应用，美国Knight集团生产的优质石英地板如今已经遍布于世界的各个角落。

石英

石英的硬度等级为7，它不会被钢片（硬度等级6.75）划出印痕。钻石的硬度等级为10，一般塑料地板都以碳酸钙为材料，而碳酸钙硬度等级仅为3。由于石英具有较高硬度，人们常把它作为研磨剂来制作砂纸，喷砂器、粉碎器和旋转研磨机。石英是非导体，并具有良好的稳定性，耐酸，防潮，膨胀系数低。被用来生产耐德石英地板的石英颗粒是精细的水磨晶体，这些天然石英颗粒拥有很牢固的分子结构，它的圆形结构有助于塑胶地板的柔韧性。

PVC

聚氯乙烯是世界上最古老的塑料之一并且用途广泛。所有用于生产耐德石英地板的纯聚氯乙烯（PVC）都由最优质的聚氯乙烯供应商提供。在生产过程中，高达50%的聚氯乙烯是再生产材料。

其他原材料

少量的可塑剂用于维持柔韧性。稳定剂限制了因热、光和氧化而产生的老化作用。润滑剂改善了产品的表面质量。使用有机颜料是为了有利于环境。

生产过程

独特的生产工艺在高温状态下调节并弯曲地板以去除内部张力，地板在一精确调节的温度下被冲压出来，以保证最终产品良好的尺寸稳定性和均一的密度。

Invention and development

The history of Knight Quartz Flooring dates back to 1952 when Rieber AS founded Rikett in Bergen, Norway. Rieber invented the flooring product as an alternative to asbestos tile. This quartz based tile was vastly superior in strength as opposed to alternative tiles composed of carbonites. Built on 50 years of flooring experience with over 150 million square meter installed world wide. Knight Quartz Flooring, has quality products laid in locations all over the world.

Quartz

All quartzes measure 7 on Mohs Scale of Hardness. They cannot be scratched by a steel file(6.75). Diamonds have a hardness of 10 and calcium carbonate, the most usual vinyl floor tile filler, only 3. Quartz is used as an abrasive for sandpaper, sand-blasting, millstones and grindstones. The mineral is very stable, has a low coefficient of expansion, is a non-conductor of electricity, is not attacked by acid and does not absorb moisture. The natural quartz particles used to produce Knight Quartz Flooring are very fine water-worn crystals-like tiny weathered quartz particles have very strong molecular structures and their roundness contributes to the flexibility of the tiles.

PVC

PVC is one of the world's oldest plastics and has an enormous range of applications. All the virgin PVC used in the production of KQF is supplied by high quality providers. Up to 50% of all the PVC used in the production process is recycled material from third parties.

Other raw materials

A small amount of plasticizer is used to maintain flexibility. Stabilizers limit any degradation by heat, light and oxidation and are firmly fixed within the finished product. Lubricants give the product an improved surface quality and only environmentally compatible organic pigments are used.

Process

Particular technics tempered and flexed to remove internal stresses and the tiles are accurately punched out at carefully regulated temperature to ensure excellent dimensional stability and consistency of the finished products.

Performance of Knight Quartz Flooring



▶ 高度耐磨，耐划痕

符合EN645及EN649耐磨测试T级；同质透心的生产工艺保证产品的颜色和花纹不易改变。

▶ 高度耐压

耐压强度达到3000psi（等同20.68兆帕）。

▶ 超强的柔韧性, 尺寸稳定性

耐德石英地板比同类其他产品拥有更佳的柔韧性，因而也更易安装，受到重压和撞击后不会断裂。耐德石英地板膨胀系数较低，所以尺寸稳定性较高。

▶ 防火性

通过国家防火检测中心性能测试，根据最新GB8624—2006标准，达到Bf1级。

通过美国ASTM E84防火性能测试，达到A级。

▶ 抗化性

耐德石英地板膨胀系数低，不易收缩变形或受化学物质影响。多项实验证明，耐德石英地板对酸、碱、清洁剂等化学物质有广泛的抗化性。

▶ 超长使用寿命

70%精细天然石英砂成分造就了耐德地板杰出的耐久性。对正常使用造成的磨穿，提供15年质保。

▶ 环保

通过国家建筑材料测试中心挥发物限量指标测试。

获得美国绿色环保认证。

获得美国绿色环保校园专用认证。

在美国绿色建筑标准认证中，获得四分（4 Leed Points）

▶ Wear resistant Scratch resistant

Wear resistance is measured up to EN645 and achieved group T in EN649. Homogeneous through-marbled composition ensures color and marbling do not wear through.

▶ Heavy duty

Withstands 3000 psi (equivalent to 20.68 MPA)

▶ Excellent flexibility and dimensional stability

Knight Quartz Flooring tiles are significantly more flexible than competitive products in the same category and are therefore easier to install. Knight Quartz Floor does not crack or break under pressure or impact. Knight Quartz Flooring tiles are dimensionally stable. They have low coefficient of expansion.

▶ Ability of Fire Resistance

Achieve the class Bf1, according to the Chinese national standard "GB8624-2006"

Achieve Class A, according to ASTM E84 in US.

▶ Ability of Chemical Resistance

Comprehensive In-house tests show that Knight Quartz Flooring tiles have excellent resistance to a wide range of chemicals like acid, alkali, detergents etc.

▶ Long Lasting

70% high quality quartz provides exceptional durability and wear resistance ,15 years' guarantee to wear through when normal use.

▶ About Environment

Passed the VOC test by National Research Center of Test for Building Materials.

Greenguard Environmental Certification in US.

Greenguard Children Shools Certification in US.

4 Leed Points by the USGBC in US.



石杰

QuartzScapes



光白
Polar Lights
014



沙白
Beach
020



宇黑
Galaxy Black
080



阳米
Sundust
120



漠啡
Desert Haze
125



风灰
Storm Gray
230



迷灰
Mystic Silver
280



晨青
Morning Dew
735



幻蓝
Mystic Blue
870



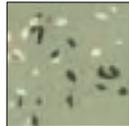
石白
Granite
060



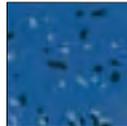
星黑
Eclipse
092



点灰
Slate
220



春绿
Morning Trail
746



海蓝
Ultramarine
816



冬白
Ice Winter
010

石杰

突破性的无方向性式样的地板终于投放市场。我们运用精细的工艺，生产出来的这一新系列更符合目前与未来趋势的产品。完美的设计以及花纹处理使得产品更耐日常污染。独特的产品质量和设计，令石杰系列符合任何环境的要求。我们这一崭新的系列提供您对地面设计的无穷的想象，同时符合您对弹性地板特性的要求。UV涂层的添加使地板抗划痕性能大大提高。

QuartzScapes

The answer to non-directional tile has finally arrived. Our new palette has been carefully crafted to mirror the current and future flooring trends. The ultimate in new designs, a light texture hides more daily traffic and floor seams. Unparalleled in quality and design, QuartzScapes adapts to any environment. Our new suite of colors offers an endless array of flooring design possibilities, to meet all of your resilient flooring needs. UV coating ensures excellent scratch resistance.

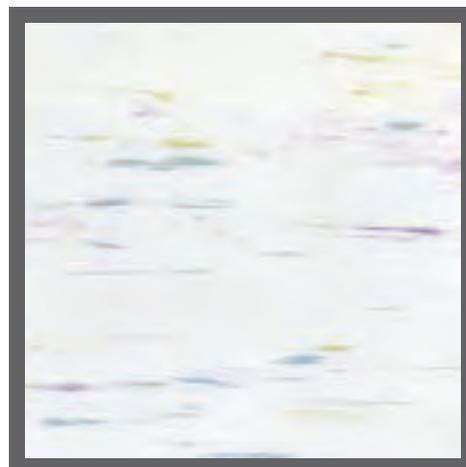


矿仕

从来没有一种地面材料有这样精彩的设计和视觉效果。矿仕系列提供新设计的式样和色彩来反映当今和未来的流行趋势。最新的设计增加多色彩的条文令它卓尔不群，亦可以帮助隐藏日常交通量产生的痕迹，矿仕系列继续成为设计师们在任何使用场地上的首选地面材料。UV涂层的添加使地板抗划痕性能大大提高。

Quartz Concepts

Floor designing has never been more rewarding or more visually appealing. Quartz Concepts offers a new collection of styles and colors that have been specifically created to reflect the trends of today and tomorrow. The ultimate in new design patterns, increased striations hide more daily traffic and seams. Preferred by designers, Quartz Concepts remains the top choice for any application. UV coating ensures excellent scratch resistance.



彩白
Jelly Bean
012-07

丽杰

Rikett



元白
Sand Dollar
018-07



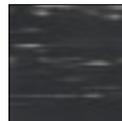
银灰
Silver Gray
026-07



雾白
Frost Sage
047-07



露白
Frost Blue
048-07



浅黑
Light Black
084-07



浅褐
Light Brown
128-07



船灰
Battleship
284-07



砖红
Merlot
320-07



油黄
Butter Cream
622-07



杨啡
Tuscan Sun
630-07



杨绿
Aspen Green
740-07



萼绿
Sage
760-07



靛蓝
Bluebird
810-07



灰蓝
Seascape Blue
820-07



书蓝
Blue Note
832-07



深紫
Deep Purple
920-07

丽杰

丽杰石英砂地板，已在市场使用超过50年。它卓越的耐磨和柔韧性，令他在市场上成为设计师的地材首选材料。

Rikett

The extraordinary high resistance to wear and abrasion and the flexibility make Rikett the smart choice for especial residential application in the passed 50 years. A wide variety of decent color patterns offer the best choice for designers.

产品应用 Application

医疗 Medical



产品系列: 矿仕
地点: Sussex Tech. Elkton, MD
产品型号: 底 色: 彩白 012-07
装饰色: 海绿 842-07



产品系列: 矿仕
地点: Hillrom Facilities
Batesville, IN
产品型号: 底 色: 冰白 006-07



产品系列: 石杰
地点: Jackson Memorial
Hospital Miamis, FL
产品型号: 底 色: 石白060
装饰色: 海蓝816

教育 Educational



产品系列: 矿仕
地点: Stuart Hall Elementary
School New Orleans, LA
产品型号: 底 色: 彩白 012-07
装饰色: 方红 308-07



产品系列: 丽杰
地点: Elkton Middle School
产品型号: 底 色: 船灰 284-07

产品型号: 矿仕
地点: Seaford School District
产品型号: 底 色: 冰白 006-07
装饰色: 皇蓝 814-07
装饰色: 亮黄 690-07
装饰色: 方红 308-07



产品应用

Application

商业 Commercial



产品系列: 矿仕、丽杰

地点: Coburn Elk River Grocery Store USA
产品型号: 底 色: 元白018-07
装饰色: 林绿712-07



产品系列: 矿仕

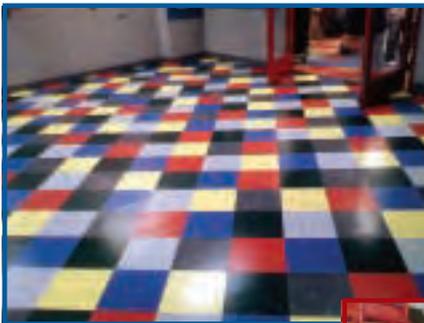
地点: Shop Rite New Jersey, USA
产品型号: 底 色: 彩白012-07
装饰色: 雨蓝812-07

产品系列: 丽杰

地点: Food Lion Grocery Store USA
产品型号: 底 色: 油黄 622-07
底 色: 靛蓝 810-07
底 色: 元白 018-07



工业 Industrial



产品系列: 矿仕

地点: Landis&GyrCommunications,
Croydon, UK
产品型号: 底 色: 方红308-07

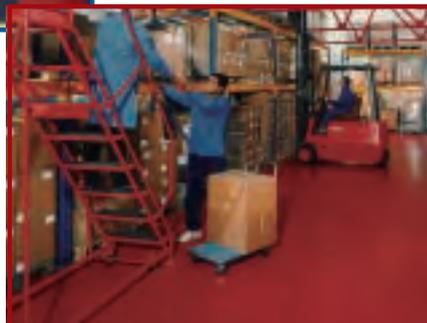


产品系列: 矿仕

地点: Royal Mail, UK
产品型号: 底 色: 冰白006-07
装饰色: 皇蓝814-07

产品系列: 矿仕

地点: Children's Television Workshop
Port Chester, NY
产品型号: 底 色: 蜜黄 608-07
装饰色: 方红 308-07
装饰色: 雨蓝 812-07
装饰色: 靛蓝 810-07
装饰色: 礼黑 075-07
装饰色: 浅黑 084-07



检测报告 Certification

PVC全项性能检测报告 CHINABMTC 达到GB/T4085-2005标准



VOC挥发物环保检测 CHINABMTC 达到国家强制性标准GB18586-2001



防火检测报告 CHINANFTC 达到GB8624-2006标准Bfi-SL, TO级别



美国权威认证

获得美国绿色环保认证;
获得美国绿色环保校园专用认证;
在美国绿色建筑标准认证中,获得四分 (4 Leed Points)
Greenguard Environmental Certification in US.
Greenguard Children Shools Certification in US.
4 Leed Points by the USGBC in US.



挪威船级社认证—船舶专用防火认证

Certification of low flame-spread characteristic for marine by DNV



欧洲 NS-EN ISO9002 认证

Certification of NS-EN ISO9002 by DNV

部分工程案例

Partial Project References

工程案例 Project	地点 Site	面积 Area (M ²)
英国皇家邮件处理中心 ROYAL MAIL, UK	英国 UK	200,000 200,000
芬兰赫尔辛基航空总部 FINNAIR HEADQUARTERS, HELSINKI, FINLAND	芬兰 Finland	11,000 11,000
卢卡斯专业电线工厂 LUCAS SEI ELECTRICAL WIRING HARNESS FACTORY	斯洛文尼亚 Slovakia	6,000 6,000
台湾中正机场二期航厦 TAIPEI AIRPORT (TAOYUAN)	台湾 Taiwan	6,100 6,100
台北科技城 TAIPEI TECHNOLOGY PARK	台湾 Taiwan	19,700 19,700
香港护理中心 AT HOK UN DEVELOPMENT PH4NURSERY CENTER, AT HOK UN DEVELOPMENT PH4	香港 Hong Kong	2,500 2,500
福建省立医院医技综合楼 FUJIAN PROVINCIAL HOSPITAL (FUZHOU)	福州 Fuzhou	11,460 11,460
华硕科技园区 (苏州) MAINTEK TECHNOLOGY PARK (SUZHOU)	江苏 Jiangsu	6,080 6,080
德力西生态科技工业园主厂房一期 DELIXI ELECTRONIC APPLIANCE (STAGE I)	浙江 Zhejiang	70,050 70,050
德力西生态科技工业园主厂房二期 DELIXI ELECTRONIC APPLIANCE (STAGE II)	浙江 Zhejiang	5,353 5,353
温州烟草公司仓储配送中心 WENZHOU TOBACCO COMPANY - STORAGE & DISTRIBUTION CENTER	浙江 Zhejiang	5,000 5,000
云南红河卷烟厂办公楼 YUNNAN HONGHE TOBACCO FACTORY - OFFICE BUILDING	云南 Yunnan	3,125 3,125
联合包裹服务公司办公室 (北京, 上海, 苏州, 广州等) UPS BRANCH OFFICES (BEIJING, SHANGHAI, SUZHOU, GUANGZHOU)	北京/上海/广州等 Beijing/Shanghai/Guangzhou	4,000 4,000
联邦快递办公室 (北京, 上海等) FEDEX BRANCH OFFICES (BEIJING & SHANGHAI)	北京/上海 Beijing/Shanghai	7,500 7,500
上海万集贸易有限公司-军用船舶 SHANGHAI WAN JI TRADING CO., LTD.- THE MILITARY VESSEL	上海 Shanghai	2,600 2,600
亚洲光学 (深圳) 有限公司厂房 ASIA OPTICAL (SHENZHEN) PLANT	深圳 Shenzhen	27,030 27,030
西门子 (嘉定) 厂房 SIEMENS (JIADING) FACTORY	浙江 Zhejiang	2,625 2,625

更多工程案例资料请登陆www.kqflooring.com进行浏览

For more information of our job references, please visit our website at:---www.kqflooring.com

检测方法	检测标准	检测结果	耐德石英地板
ASTM D 2240 吸水率	< 0.3%	合格	优异
ASTM D 570 凹陷度	<0.006 inches	合格	优异
ASTM D 2047 防滑性能	--	合格	ADA Compliant
ASTM E 84 斯坦纳隧道燃烧性能测试	< 25	合格	A级
ASTM E 648 辐射通量测试	>45 watts/cm ²	合格	1级
ASTM F 662 烟密度测试	< 230	合格	优异
ASTM F 925-96 抗化学试剂	标准溶液	合格	异优
ASTM F 1066 复合塑料地板指标	8级标准测试	合格	优秀
ASTM F 970 静态负荷测试	250 psi	合格	3000 psi
ASTM F 510 耐磨度测试	2000 cycles	合格	优秀
中国国家建筑材料测试中心标准中全项性能检测	GB/T4085-2005	合格	优异
中国国家建筑材料测试中心挥发物检测	GB18586-2001	合格	优异
中国国家防火建筑材料质量监督检验中心	GB8624-2006	Bf1级合格	Bf1-S1,t0级

Test Method	Standard	Result	KQF
ASTM D 2240 Water Absorption	< 0.3%	passed	Superior
ASTM D 570 Hardness	<0.006 inches	passed	Superior
ASTM D 2047 Co-efficient(Slip Resistance)	--	passed	ADA Compliant
ASTM E 84 Steiner Tunnel Burn Test	< 25	passed	Class A
ASTM E 648 Radiant Flux Test	>45 watts/cm ²	passed	Class 1
ASTM F 662 Smoke Density Test	< 230	passed	Superior
ASTM F 925-96 Solvents and Stain Resistance	Standard Chemicals	passed	Superior
ASTM F 1066 Specifications for Vinyl Composite Tile	8 Standard Tests	passed	Excellent
ASTM F 970 Static Load Test	250 psi	passed	3000 psi
ASTM F 510 Abrasion Resistance Taber Abrader	2000 cycles	passed	Excellent
CHINABMTC	GB/T4085-2005	passed	Superior
CHINABMTC	GB18586-2001	passed	Superior
CHINANFTC	GB8624-2006	Bf1	Bf1-S1,t0

产品规格：常规尺寸300X300X2.0mm, 600X600 X2.0mm
 可按要求定制：特殊尺寸、特殊颜色、特殊花纹、纯色

Product Size: Standard Size 300X300X2.0mm, 600X600 X2.0mm
 Special size,color,marbling are available by request.

安装

基本指南

耐德石英地板含有超过70%的天然石英成分。增加了石英的PVC地板极其坚韧、耐用、易于维护；高含量的石英使得地板具有突出的耐久性和耐磨性。耐德石英地板的安装方法类似于其他弹性地板。在安装时应注意：地板应当互相贴紧，但不能强行嵌入，切勿硬挤地板角。

耐德石英地板可以安装在符合要求的混凝土、结构木板等基层上。施工现场温度保持在摄氏18-27度（华氏65-80度），当施工现场与室外环境温度差较大时，让地板和胶水放置于室内最少24-48小时，令产品充分适应现场环境。地板需以平卧方式存放。

基层要求

做好基层准备工作是安装前必不可少的。基层上要求无污物和杂质，以免影响地板与基层粘合效果。平整度满足3.2mm/3m；不平整的地方应尽量找平以减少误差。

混凝土

耐德石英地板可以安装在不同等级的混凝土基层上。基层须确保去除所有固化剂、密封剂、污染物、油脂、污垢、旧粘胶、灰尘及混凝土残渣等。建议在处理后的基层上进行粘结性测试。基层混凝土做防潮层处理后，表面应满足干净、平滑、干燥并无结构缺陷。分隔缝、裂缝、空鼓、裂口及控制缝需用专业设计的聚合物水泥来修补，不能用石膏基的材料修补。

混凝土基层应符合ASTM F 710标准（弹性地板基层标准）；耐德石英地板只应安装在干燥的混凝土上，其湿度在标准氯化钙测试（ATM F 1869）中低于8lbs。在不同的安装环境应采用不同的胶水。如混凝土基层湿度大于8lbs，请咨询耐德公司应采用何种胶水。在安装耐德石英地板前还应对混凝土基层进行碱性测试。基层PH值不能大于10，若超过10，需进行酸碱中和。用于修补及找平的材料有很多类型可供选择，但切勿使用石膏基做找平材料。所有有关辅助材料的质保及是否合适使用，由辅材制造商和安装承办商负责。耐德石英地板不承担相关责任。

木质基层

如果使用木质基层，耐德石英地板只可以安装在作为底衬使用的胶合板基层上（即APA Underlayment EXT或参考APA-工程木料协会的基层木料标准）。不建议安装在芯木板、刨花板、密度板、欧松板（定向刨花板）和类似结构的板材上。

弹性地板

要拆除原有弹性地板。若无法拆除原有弹性地板，可以直接安装在原有的单层的弹性地板上。请参照耐德石英地板安装指南。对安装在不恰当弹性基材上造成的质量问题和损失，耐德石英地板将不予承担。

其他的地层

耐德石英地板也可以安装在水磨石、瓷砖和钢板等基面上。地板安装前，对于每种基面都要进行必要的检查和正确的处理，以保证地板粘结。（详情请参照耐德石英地板安装指南）

安装

耐德石英地板独特的生产工艺使材料具有细微方向效应。施工时请按照地板背面的标线指示方向顺序铺设。对未按照背后标线铺设所造成的色差，耐德石英地板将不承担任何责任。按照施工分隔线将胶水均匀涂抹于基面。铺胶工具建议使用1.6mm*1.6mm*1.6mm V型凹口泥刀。建议不同的现场条件选用相应的胶水，并参照胶水制造商提供的技术说明。地板铺设后一小时内，使用100磅的地板压辊沿对角对地板施压，使泥刀留下的凹口消失，以确保完全粘合。及时清理地板表面遗漏的尚未变干的胶水，并定期检查压实后的地板背面胶水情况，确保背面胶水被完全压展从而保证地板粘结。胶水应当100%涂抹到每个角落。起鼓地板必须及时移除，并彻底清除原有胶水。去除地板表面的胶水，请参考安装指南。

耐德石英地板可以用专业的地板切割机、美工刀、手工锯或台锯来切割。

胶水

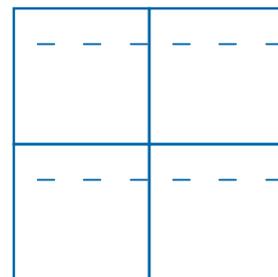
高性能压敏性胶水：一种半软质、低气味、乳液基的压力敏感型胶水。具有无溶剂、不燃烧、高固体含量、高粘性、高强度的特性。不含有对人体有害的挥发物，其挥发物量低于美国职业安全与卫生条例规定的OSHA CFR 1900.1200标准。这是一种高性能的丙烯酸乳液类压敏型胶水，可以在高湿度（8lbs/1000sf/24hr）、或者PH达到10的碱性基层上使用。

高性能强力胶水：一种高固含量的水性丙烯酸类粘剂。具有无溶剂、不燃烧、粘结牢固、高强度的特点。不含有对人体有害的挥发物，其挥发物量低于美国职业安全与卫生条例规定的OSHA CFR 1900.1200标准。是一种特殊的水性丙烯酸乳液类粘剂，可以在高湿度（8lbs/1000sf/24hr）、或者PH达到10的碱性基层上使用。

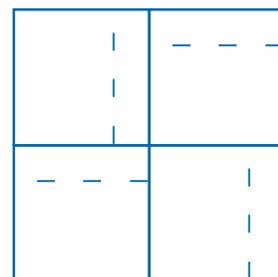
安装示意图 Installation Diagram

地板的背面

Back of tiles



片材根据单路或直线系统排列
Monolithic/directional system



交叉或镶嵌系统排列
Checkered/tessellated system

Installation

General Guidelines

Knight Quartz Flooring tiles are composed of no less than 70% natural quartz. KQF quartz reinforced vinyl floor tile is extremely flexible, tough durable and easy to maintain. High quartz content provides exceptional durability and superior wear resistance. KQF quartz tile installs using the same generally accepted tile practices as other resilient flooring. Set tile snugly against each other, but do not force into position. Do not jam the corners.

KQF quartz tile can be installed on concrete, plywood and many other substrates when surfaces are properly prepared. KQF quartz tile and adhesive should be acclimatized to the installation (minimum 24 to 48 hours), generally 65 to 80 Fahrenheit. KQF quartz tile must be stored flat.

Subfloor Preparation

Good subfloor preparation is essential for a visually acceptable and technically sound installation. All substrates must be free of contaminants or any substance, which will interfere with a strong bond. All surfaces should be level to within 1/8" in 10 feet. Correct all irregularities to minimize telegraphing.

Concrete

Knight Quartz Flooring quartz tile can be installed on concrete-on, above or below grade. Concrete should be free of all curing compounds, sealants, contaminants, old mastics, dirt, dust and debris prior to installing tile. A bond test is recommended over any floor where foreign substances have been removed. On or below grade slabs should have vapor barriers installed. Concrete should be clean, smooth, dry and free from structural defects. Cracks, minor crevices, small holes, indentations and control joints should be filled with Portland cement based patching compound designed for that purpose. Do not use gypsum based products.

New or existing concrete subfloors should meet ASTM F 710, "standard Practice for Preparing Concrete Floors to Receive Resilient Flooring." KQF quartz tile should only be installed on visibly dry concrete containing less than 8 lbs. moisture based on standard Calcium Chloride testing (ATM F 1869). KQF quartz tile supplies different adhesives for different job site conditions. If concrete readings are higher than 8 lbs., consult Knight Premium Quartz for the proper adhesive. All concrete floors should have an alkalinity test performed before installation of KQF quartz tile. Subfloors should have a PH level of 10 or below. If 10 or higher PH levels are found, the subfloor must be neutralized. Many different types of underlayment products are recommended for patching and leveling. Never use gypsum-based leveling compounds. All guarantees regarding the suitability of any products rests with the manufacturer and installer of the product used and not with Knight Quartz Flooring.

Wood

Use only A underlayment type plywood (i.e. APA Underlayment EXT or consult the APA – The Engineered Wood Association for performance rated subfloor panels). Not recommended: particleboard, chipboard, flake-board, OSB (oriented strand board) and similar type of constructed board.

Resilient Floors

Existing resilient floors should be removed whenever possible. If it is not practical to remove the resilient floor you may install directly to a single layer of resilient commercial flooring. Consult the Knight Quartz Flooring tile installation guide. KQF tiles will not be responsible for installation problems due to resilient subfloor inadequacies.

Other Substrates

Terrazzo, tile and steel deck may provide an adequate substrate for installing KQF quartz tile. Each substrate must be properly prepared to accept adhesive and tile. Consult the KQF quartz tile installation guide.

Installation

The unique KQF quartz tile manufacturing process produces a directional effect in the shading. Tile must be installed with the directional marking on the back all aligned in the same direction. Spread adhesive according to label directions. 1/16"X1/16"X1/16" V-notch trowel is recommended on most substrates. Use correct adhesive as recommended for job site conditions. Floor should be rolled within one hour after setting. Use a 100 lb. floor roller. Roll diagonally to flatten out trowel notches and ensure adequate transfer of adhesive. Clean excessive adhesive on face of tile before it dries. Periodically check adhesive transfer on the back of tile. Tile should have 100% adhesive transfer to ensure proper bonding. Do not set tile in adhesive that was "skinned" over. Remove and discard any adhesive that has skinned over and use fresh adhesive. Remove adhesive on tile face as described in complete installation instructions.

Tile can be cut with a guillotine type tile cutter, utility knives, jig saw or table saw.

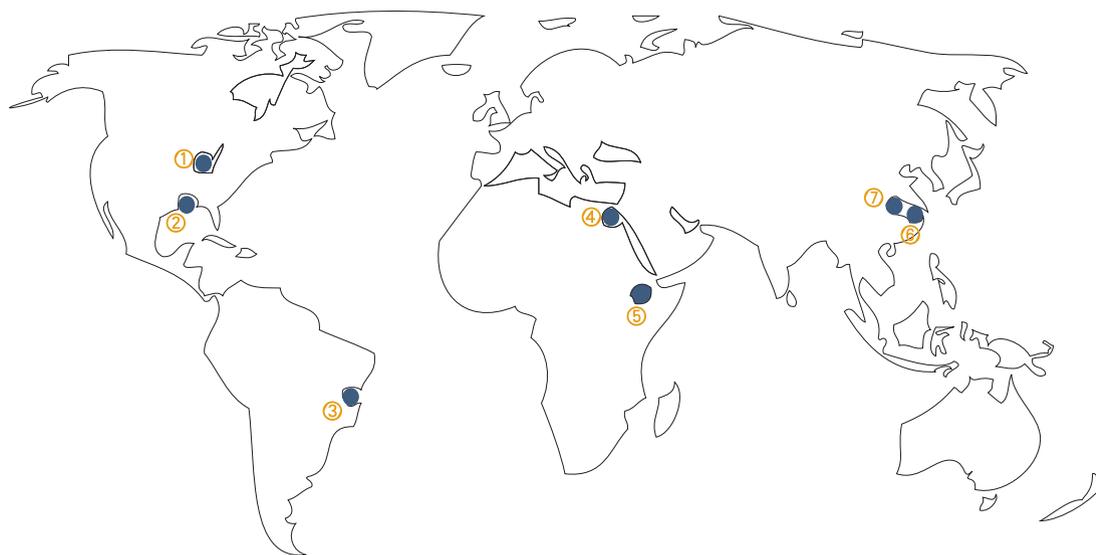
Adhesives

Premium Pressure Sensitive Adhesive: a soft-set, low odor, latex-based, pressure sensitive adhesive, which is solvent free, non-flammable, high solid, extremely tacky, extra strong and does not contain hazardous volatile organic compounds per OSHA CFR 1900:1200. This is a specially formulated pressure sensitive acrylic adhesive that bonds under high moisture conditions: 8lbs/1000sf/24hr and or PH up to 10.0.

Premium Hard-Set Adhesive: a specially formulated high solid, water based acrylic adhesive, which is solvent free, non-flammable, hard setting, and extra strong and does not contain hazardous volatile organic compounds per OSHA CFR 1910. This is a specially formulated wet-acrylic adhesive that bonds under high moisture conditions: 8lbs/1000sf/24hr and or PH up to 10.0.



耐德集团全球网络分布图 Global Location of Knight Industry



- ① Chicago US ② Marrero US ③ San Palo Brazil ④ Cairo Egypt
⑤ Addis Abba Ethiopia ⑥ Shanghai China ⑦ Suzhou China



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