



Chiswick



The Chiswick collection is a modern interpretation of natural stone, combining four modern colours and two unique finishes. The matt finish has been specially designed to provide more grip when water is applied, this flexible design feature allows the tiles to be used as both an internal and external tile. A distinctive double polishing process provides the honed finish with a delicately smooth texture that is beautiful to feel. The new addition of a 600x600x20mm Paver and matching 400x600x20mm square edge copper makes it ideal for outdoor use.



Discover the timeless elegance of Chiswick, a premium stone-look ceramic tile that brings the natural beauty of stone into your home. With its modern interpretation of classic stone, Chiswick offers a harmonious blend of contemporary style and enduring quality.



Available in a range of sophisticated hues, each tile is meticulously crafted to capture the essence of natural stone with the added durability and ease of maintenance that only ceramic can provide. Whether you're accentuating your indoor space or extending your living area outdoors, Chiswick's versatile matt finish ensures a safe, non-slip surface, while the honed finish exudes a subtle, polished charm. Elevate your design with Chiswick – where luxury meets practicality.

Images: (Clockwise from left)

- 1) Chiswick Charcoal
 - 2) Chiswick Grey
 - 3) Chiswick White
- Cover (Top) Cream
Cover (Bottom) White

White



Cream



Grey



Charcoal



400x600x20 mm
Square Edge
Coper

600x600x20 mm
External Paver

600x1200 mm
Honed
Matt

600x600 mm
Honed
Matt

300x600 mm
Honed
Matt

75x300 mm
Honed



Technical
Porcelain

Rectified
Edge

V3
Variation



GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.

Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.



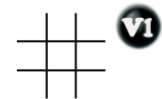
Click or Scan for
Installation Instructions

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

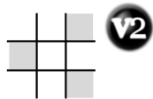
Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

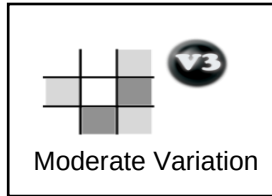
Colour & Pattern Variation Guide



Uniform Appearance



Slight Variation



Moderate Variation



High Variation

Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminants. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

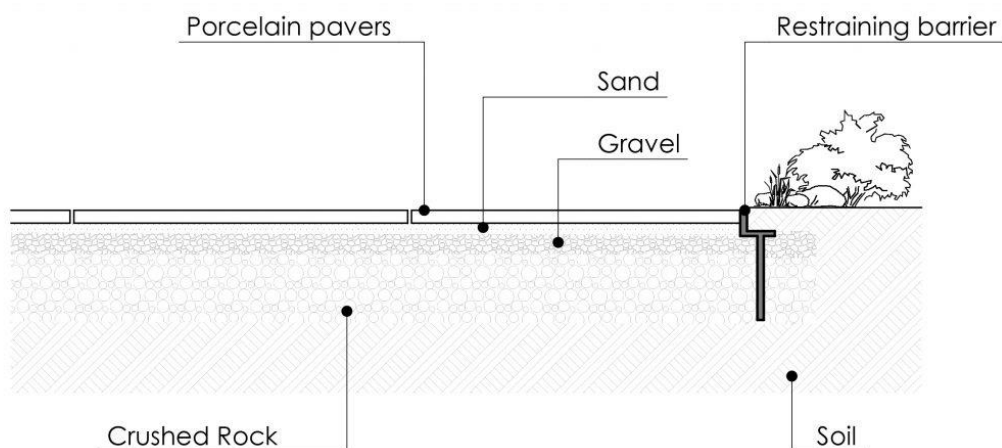
Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 3 - Floor coverings in areas that, with normal footwear, are walked on more often with small amounts of scratching dirt; for example, living areas, bedrooms, residential kitchens, laundries with internal access, halls and corridors. This does not apply to abnormal footwear; i.e. work boots and outdoor shoes.

CLASS 4 - Floor coverings that are walked on by regular traffic with some scratching dirt so that conditions are more severe than CLASS 3; For example, entrances, laundries with external access, living areas, entertainment areas, patio's, sales rooms, motels.

Porcelain pavers on a gravel/sand bed.

- Firstly, ensure there is a min. 2° slope for drainage which must be directed away from any building.
- After defining the area to be excavated, mark the perimeter using marker posts connected by a string. Note that the excavated area should be extended on all sides by approx. 200mm to ensure stability at the outer edges of the paved area.
- Remove the soil inside the marked area using a shovel or excavator. The depth of excavation will depend on several factors including the anticipated loading, the drainage capacity of the soil and the soil conditions in general.
- Using a rake or shovel, level the excavated area and ensure there is at least 2° slope for good drainage.
- Compact the soil with a vibrating compactor.
- A restraining perimeter wall should be installed prior to laying the gravel/sand bed unless it is in direct contact with a footpath, wall or an existing edge that is sufficiently rigid. The perimeter wall should be fixed to the ground with mechanical fixing devices or constructed as a solid barrier using poured concrete.
- Place a sheet of geotextile fabric on top of the compacted soil to prevent the soil from mixing with the gravel.
- Fill the excavated area with 15-20mm stone screenings to a thickness of 200 – 300mm, depending on the planned loading.
- Add a further layer of 10mm gravel to a thickness between 100- 200mm.
- Compact the two layers and then level ensuring there is a slope of approximately 2°.
- Place a sheet of geotextile fabric on top of the compacted gravel to prevent the gravel from mixing with the sand.
- Fill the area with paving sand to a thickness of between 20-25mm and compact with a vibrating compactor.
- Level the surface by sliding a wood or steel board placed on two parallel runners across the entire area, again ensuring there is a slope of approximately 2°.
- Taking care not to disturb the sand bed, lay the paving slabs using 3mm spacers. **Do not butt joint**
- Carefully tap the pavers with a rubber mallet to ensure they are not rocking on the sand bed and that they are level with each other. Fill the joints with polymeric sand that is suitable for use with porcelain tiles.

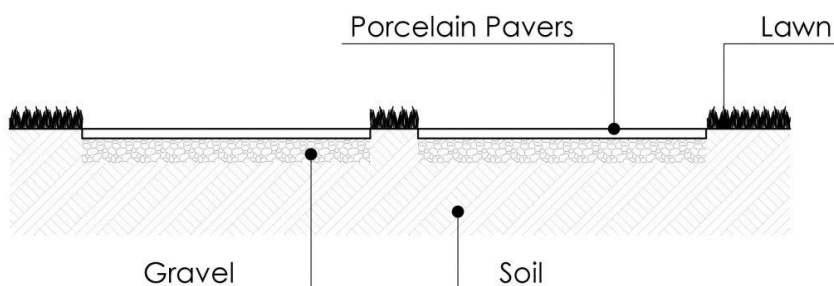


Porcelain pavers for elevated deck applications.

- For elevated deck applications, adjustable height pedestal supports offer the easiest and quickest way to construct a perfectly horizontal deck or terrace over sloping or uneven surfaces, avoiding the need to construct extensive supporting substructures of wood or metal beams. Electrical cables and pipes can be hidden under the pavers but easily inspected at any time by simply lifting individual pavers.
- Depending on the width of the pavers, pedestals are either placed directly under the pavers or are used to support an array of hollow steel beams, over which the pavers are laid.
- For instructions on how to install pavers using the pedestal system we recommend following the manufactures' instructions.

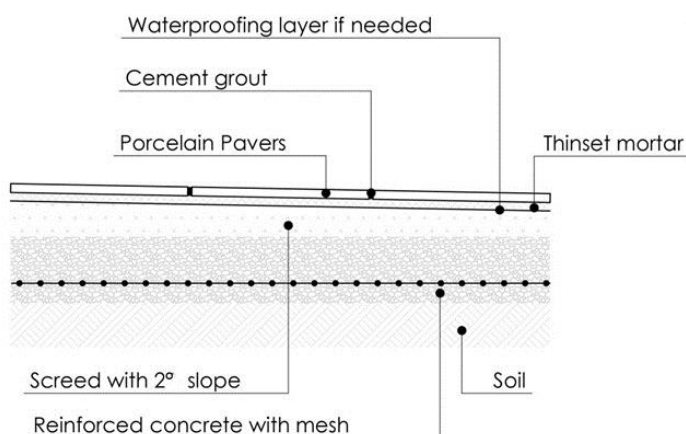
Porcelain pavers on grass.

- Lay the pavers on the ground to determine the numbers of steps needed for the garden path, making sure the pavers are placed at equal distance from each other.
- The joint width between the pavers should be chosen depending on the appearance required. For stepping stones or pathways, the pavers would be normally laid with open joints with grass in between. However for areas where outdoor furniture will be used, pavers would normally be laid with 3mm joints ensuring the joints are filled with polymeric sand that is suitable for use with porcelain tiles.
- Mark the perimeter of each paver with a spade and then remove the pavers.
- Remove the turf up to a depth of between 50-75mm.
- Fill with a layer of fine 5-10mm gravel and compact the gravel before laying the pavers. If preferred, lay 25mm thick layer of sand to add as a bed for the pavers.
- Carefully lay the pavers so they protrude above ground level by approximately 6-10mm. The pavers must not protrude above the lawn level, to avoid damaging lawn mower blades when cutting the grass.
- Carefully tap the pavers with a rubber mallet to ensure they are bedded properly.



Porcelain pavers on a concrete base.

- Verify the concrete substrate is in good condition, is installed in accordance with relevant building codes and reinforced with steel mesh, and is constructed with a 2° slope pitched away from any building.
- Clean the surface of the concrete to ensure good adhesion of the pavers.
- Spread an approved exterior grade thin set mortar over the concrete using the correct sized notched trowel.
- Lay the pavers on the thin set with minimum 3mm joint spacing where the area is not large enough to require expansion joints, or with 5mm spacing where expansion joints are present. All expansion joints should be installed in accordance with Australian Standards and must be located along the joint line of the installed pavers to avoid cracking of the pavers.
- After the thin set has dried, grout the pavers with an approved exterior grade grout.
- Wash the pavers carefully after grouting to remove excess grout.
- A final buffered acid wash will also be required to remove any invisible grout residue.
- If polymeric sand is preferred over grout, we recommend proprietary Tile Sand which is specifically made for porcelain pavers.





国家陶瓷及水暖卫浴产品质量监督检验中心



180002113069



(2018)国认监认字(404)号



中国认可
国际互认
检测

TESTING
CNAS L110

No: G20-WT4152

检 验 报 告

Test Report

产品名称: 生态地铺石瓷砖

Product name: PORCELAIN TILE

委托单位:

Client:

生产单位: -----

Manufacturer: -----

检验类别: 委托检验

Test Category: Entrusted Test

国家陶瓷及水暖卫浴产品质量监督检验中心

(检验专用章)

National Center of Supervision and Inspection for Ceramic
Sanitary and Plumbing Fixture



国家陶瓷及水暖卫浴产品质量监督检验中心

检 验 报 告

表号: QR-CX049-01A/Ed.11.0

共 2 页 第 1 页

产品名称Product name, 型号、规格 Model, Specification, 商标、等级 Trademark, Grade	生态地铺石瓷砖 PORCELAIN TILE 600mm×600mm×20mm	生产日期 Production Date, 或批号 Production Batch	-----/-----
委托单位 Client		检验类别Test Classification	委托检验 Entrusted Test
委托单位地址 Client Address	-----	样品数量Sample Quantity/ 来样方式 Method of Sample Receipt	30块/送样 12 PCS/ Provided by client
生产单位 Manufacturer (委托方提供) (As the Applicant Claimed)	-----	接样日期 Receival Date	2020年05月09日 2020-05-09
生产单位地址 Manufacturer Address (委托方提供) (As the Applicant Claimed)	-----	接样人 Sample Receiver	徐仲平 Xu Zhongping
样品特征 及状态 Sample's State and Characteristic	块状(有釉、表面呈凹凸状) Pieces (The surface of the tile is uneven and glazed)	检验日期 Test Date	2020年05月10日至2020年 05月21日 2020-05-10~2020-05-20
检验依据	GB/T 4100-2015(附录G)《陶瓷砖 附录G 干压陶瓷砖(E≤0.5%Bla类)》; DIN 51130:2014 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger - walking method-Ramp test; JC/T 872-2000《建筑装饰用微晶玻璃》; GB/T4100-2015(Annex G) Ceramic Tiles Annex G Dry-pressed ceramic tiles with Low water absorption E≤0.5% Group Bla; DIN 51130:2014 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger - walking method-Ramp test; JC/T 872-2000 Glass-ceramics for building decoration		
检 验 结 论 Test Result	经检验, 第12~14项不作判定, 其余项目符合GB/T 4100-2015标准中附录G的要求。 Except the test items No.12~No.14 are not verdict, the test results comply with the requirement of the standard GB/T 4100-2015 Annex G 二〇二〇年五月二十一日 检验专用章 复印报告未重盖红色“检验专用章”无效		
备注 Remarks	-----		

批准: 曹阳

曹阳

审核: 吴松

吴松

主检: 吴松

吴松

检验单位地址: 广东省佛山市南海区狮山镇科技西路2号 电话: 0757-88735166 邮箱: nccs0757@163.com

检验报告

No: G20-WT4153

表号: QR-CX049-02A/Ed.11.0

共 2 页 第 2 页

No. 序号	Test Items 检验项目	Unit 单位 符 号	Technical Requirements 标 准 要 求				Test Results 检验结果		Verdict 判 定
1	Size and difference 尺寸及偏差	%	Length 长度	The deviation, of the average size for each tile from the work size 相对于工作尺寸的允许偏差	±0.6	-0.01~+0.04		Pass 合格	
		mm			Maximum 最大值 ±2.0	-0.1~+0.4			
		%	Width 宽度	The deviation, of the average size for each tile from the work size 相对于工作尺寸的允许偏差	±0.6	+0.01~+0.07			
		mm			Maximum 最大值 ±2.0	0~+0.4			
		mm	Thickness 厚度	Worksize工作尺寸≤13.5		N/A			
		%		The deviation, of the average size for each tile from the work size 相对于工作尺寸的允许偏差	±5	0~+1.0			
		mm			Maximum 最大值 ±0.5	0~+0.2			
2	Straightness of sides 边直度	%	±0.5				-0.03~+0.05	Pass 合格	
		mm	Maximum最大值±1.5				-0.26~+0.30		
3	Rectangularity 直角度	%	±0.5				-0.03~+0.04	Pass 合格	
		mm	Maximum最大值±2.0				-0.21~+0.22		
4	Surface quality 表面质量	-----	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles. 至少砖的95%的主要区域无明显缺陷				Conformed 符合	Pass 合格	
5	Water absorption 吸水率	%	Average 平均值≤0.5 Individual maximum单个值≤0.6				0.08 0.06~0.10	Pass 合格	
6	Breaking strength 破坏强度	N	When the thickness ≥ 7.5 mm, the average breaking strength shall not be less than 1300 当厚度≥7.5mm时,平均值≥1300				8386	Pass 合格	
7	Crazing resistance 抗釉裂性	-----	No crazing or peeling on the glazed surface after the crazing test. 经试验应无釉裂				Conformed 符合	Pass 合格	
8	Frost resistance 抗冻性	-----	No crack or peeling after the frost test 经试验应无裂纹或剥落				Conformed 符合	Pass 合格	
9	Resistance to staining 耐污染性	-----	Mininum class 3 最低3级				Class 5 5级	Pass 合格	
10	Resistance to household chemicals & swimming pool salts 耐家庭化学试剂和游泳池盐类	-----	Minimum GB 不低于GB级				Class GA GA级	Pass 合格	
11	Static coefficient of friction 地砖摩擦系数	-----	Individual单个值≥0.50				Dry 干法	0.76~0.77	Pass 合格
12	Surface abrasion 耐磨性	-----	Report abrasion class and cycles passed 经试验后报告耐磨转数和等级				750 cycles 转	Class 3 3级	-----
13	Anti-slip properties 防滑性能	-----	-----				22°	R11	-----
14	Mohs' hardness 莫氏硬度	-----	-----				6		-----

(以 下 空 白)

1. 报告无主检、审核、批准人签章和“检验专用章”无效。
2. 报告涂改、缺页或骑缝处未盖“检验专用章”、复印后未重新加盖红色“检验专用章”，本报告无效。未经本机构书面批准不得部分复制报告。
3. 委托检验报告仅对收到的样品负责。未经本检验机构同意，委托人不得擅自使用检验结果进行不当宣传。
4. 对检验报告有异议，请在收到报告之日起15天内以书面形式提出，逾期视为认同检验结果。
5. 经本检验机构签发的检验报告可以通过手机扫描报告上的二维码进行网上查询真伪。如需查询完整报告内容请致电业务联系电话0757-88735333、88735222。

Declaration

1. Report without signature of inspector, verifier and approver and “specific seal for test report” is invalid.
2. Report is invalid in case it is altered, incomplete pages, without across-page seal, duplicate without “specific seal for test report”. Report can not be partial copied without written approval.
3. Entrusted test report is responsible for the samples received only. Test results can not be improper propagated without written approval.
4. In case of any disagreement, applicant shall make a request in written form within 15 days on receiving the report; otherwise test result shall be accepted.
5. Test report that issued by our lab can be verified by scanning the QR code. For any enquiry about full report content, please contact 0757-88735333, 88735222.

地址：广东省佛山市南海区狮山镇科技西路2号

邮编(P. C): 528225

Add: No. 2, Keji West Road, Shishan, Nanhai District, Foshan, Guangdong, China

业务电话(Tel): 0757-88735333 88735222 传真(Fax): 0757-88735555

中心网址(Web): <http://www.fszjzx.com> 业务电邮(E-mail): fszjywb@163.com

投诉电话(Tel): 0757-88735110

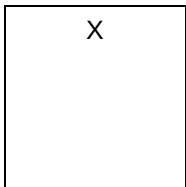
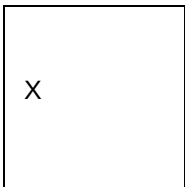
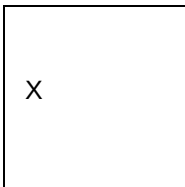
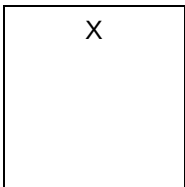
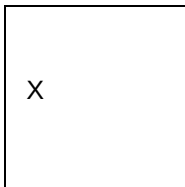
监察举报电话(Tel): 0757-88735122

**CERAMIC TEST LAB****Slip Test Report S230014****Issue Date:** 09/08/2023

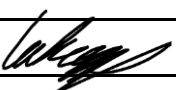
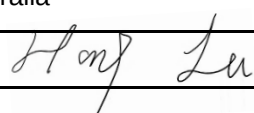
Requested by:	GNS Ceramics
Address:	3 Cox Place, Glendenning
Sample number:	23198578
Sample name:	Chiswick Paver
Sample description:	CH6004-20 CHISWICK CHARCOAL EXTERNAL 600X600X20
Slider Used:	96

Test Date	09/08/2023				Temperature (Laboratory)	21.4°C		
Pendulum Friction Tester:		Munro Stanley Portable Skid Resistance Tester S/N: 2081 Calibration Date: 3 November 2022						
Test Specimen (Unfixed)	Pendulum Swing Results (BPN)					Mean (BPN) (last 3 swings)	Classification According to AS4586-2013	
	1	2	3	4	5			
Tile 1	53	53	53	53	53	53	P4	
Tile 2	55	54	54	54	53	54		
Tile 3	54	54	55	55	54	55		
Tile 4	54	54	54	54	54	54	SRV (BPN)	54
Tile 5	52	52	52	53	53	53		
All samples were tested unfixed on a flat and level surface, no slope correction required. Each tile cleaned with water and light scrubbing prior to testing. SRV= Slip Resistance Value								

Testing performed in Accordance with AS4586-2013 Amd 1:2017, Appendix A Wet Pendulum Test Method with a 96 Rubber slider, conditioned with P400C paper dry, followed by 3 µm wet lapping film.
Results relate only to the items tested.

Approximate test location				
Tile 1: 	Tile 2: 	Tile 3: 	Tile 4: 	Tile 5: 

Note: Top location based off tile directional arrow or as marked on tile.

Test Location:	Ceramic Test Lab, 175 Racecourse Rd, Rutherford, NSW, 2320 Australia		
Test Officer	Luke Crisp 	Authorised by:	Hong Lu 

Max Glory International Ltd

Office & Showroom : 22nd~23rd Floor, South Tower, Citic Poly Plaza, TianHong Rd, LeCong Town,
ShunDe District, Foshan City, Guangdong Province, P. R. China 528000
Tel: +86-757-8307 1852 or 8313 4180 - 8010 Fax: +86-757-8313 4181

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Common name: Ceramic Tile (For purposes of this SDS, the term “ceramic” encompasses all types of tile products.)

Manufacturer Name: Max Glory International Ltd

Address: 22nd~23rd Floor, South Tower, Citic Poly Plaza, TianHong Rd,
LeCong Town, ShunDe District, Foshan City,
Guangdong Province, P. R. China 528000

Tel: +86-757-8307 1852 or 8313 4180 - 8010
Fax: +86-757-8313 4181

Emergency Assistance: Tel: +86-757-8307 1852 or 8313 4180 - 8010

Recommended Use: Building Material – for floor and wall cladding

2. HAZARDS IDENTIFICATION

Tile products are odorless, stable, non-flammable, does not release any hazardous chemical and are considered as non-hazardous to health under normal conditions of use. However, dust containing crystalline silica is produced by the cutting and grinding of tiles during installation or by operations such as demolition / removal projects. Respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates from these activities. The hazards identified below apply to tile usage under these conditions.

Signal Word: Danger

Hazardous substance: Crystalline Silica



Category 3 (Respiratory tract irritation) (H335)



Category 1A (Carcinogenicity) (H372)

Issued Date: 3rd September 2024

Max Glory International Ltd

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ShunDe District, Foshan City, Guangdong Province, P. R. China 528000
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Hazard Statements:	May cause CANCER (inhalation) (H350) May cause respiratory irritation (H335) Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation) (H372)
Precautionary Statements:	Do not handle until all safety precautions have been read and understood. (P202) Do not breathe dust/spray. (P260+P261) Wash skin thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Wear protective gloves, protective clothing, eye protection, faceprotection. (P280)
Potential Health Effects:	Inhalation: Do not breathe dust. See "Health Hazards" in Section 11 for more details.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions

Dangerous components: Not applicable

Non-hazardous components:

Tiles consist of a mixture of predominantly clay types and other naturally occurring mineral substances. After mixing with water and pressing of the tile the bisque is fired at very high temperature. During the firing process very stable crystal grid structures are formed in which the individual chemical elements are incorporated.

Main constituents of ceramic tiles (bisque) are silicon oxide (65 – 75%) and aluminium oxide (15- 25%).

Main constituents of the glazing layer are silicon oxide (approx. 50%), aluminium oxide (approx. 10%) and calcium oxide (approx. 10%); furthermore, the glazing layer contains small percentages of the following substances: sodium oxide, manganese oxide, iron oxide, magnesium oxide, potassium oxide and barium oxide.

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4. FIRST AID MEASURES

Applicable during cutting or changing the shape of the tile during installation and removal when potential hazards associated with dusts which may be produced.

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes if dust gets in eyes. Get medical attention if irritation persists.

Skin: Wash thoroughly after working with tiles.

Inhalation: Remove to fresh air if exposed to large amounts of tile dust. Administer artificial respiration if breathing has stopped. Keep victim at rest. Call for prompt medical attention.

Ingestion: Not applicable for intact tiles.

Have emergency eyewash station available in area where tiles are cut.

5. FIRE-FIGHTING MEASURES AND INFORMATION

Flash Point (Method Used):	Not applicable
Auto ignition Temperature:	Not applicable
Flammable Limits (% by Volume in Air):	LEL - not applicable UEL - not applicable
Fire Extinguishing Media:	None required Non-flammable
Special Fire Fighting Procedures:	None
required Fire and Explosion Hazards:	None

6. ACCIDENTAL RELEASE MEASURES

Avoid creating excessive dust. Clean up dust with a vacuum system with a High-efficiency particulate (HEPA) air filter vacuum or damp sweeping. See Section 8 of this SDS concerning PPE information for clean-up.

7. HANDLING AND STORAGE

Handling: No specific chemical hazards when handling whole product. When cutting, grinding or hacking see Section 8 on Exposure Control.

Storage: Dry covered condition recommended. Do not store near acids. If tiles contact some acids, damage/discoloration to the surface may occur. Shelf life is unlimited.

Issued Date: 3rd September 2024

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

OSHA PEL : 0.10 mg/m³ as respirable crystalline silica

ACGIH TLV : 0.05 mg/m³ as respirable crystalline silica

Control of occupational exposure:

Technical measures: Bring tiles to size using a score-and-cut tile cutter instead of sawing or grinding methods. During sawing or grinding of tiles or removal of old tiles, always use local exhaust ventilation combined with collection of dust, in the case of sawing or grinding, wet cutting methods are more preferable in which the sawing or grinding equipment is equipped with water supply or with application of (semi) automatic removal equipment with moistening facility.

Ventilation: Use adequate ventilation to keep exposure to dust below recommended exposure levels. Avoid inhalation of dust. The highest probability of silica exposure occurs during installation using drycutting methods or during removal of installed tile.

Respiratory Protection: Use of a properly fitted and approved particulate respirator is recommended when cutting tiles for installation or during the removal of installed tile.

Eye Protection: Use dust-proof goggles or safety glasses with side shields. Contact lenses may absorb irritants. Do not wear contact lenses in work areas.

Skin Protection: Cotton or leather work gloves should be worn when cutting this product to minimize skin exposure to dust and/or cuts. Wash hands prior to eating, drinking, or smoking, and at the end of the work shift, after cutting operations are conducted.

NOTE: Personal protection information in Section 8 is based on general information for normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the assistance of an industrial hygienist or other qualified professional be obtained.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brittle solid; colour may vary
Odor:	Odorless
Melting Point:	Not Available (>2200 0F)
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density (Air = 1):	Not applicable
Solubility in Water:	Insoluble
Specific Gravity (H2) = 1):	1.6 to 2.1
Percent Volatile by Volume:	Not applicable
Evaporation Rate (Ethyl Ether = 1):	Not applicable
Viscosity:	Not applicable
Volatility:	0 g/L Volatile Organic Compounds (VOCs)

10. STABILITY AND REACTIVITY

Stability:	Stable in current form.
Conditions to Avoid:	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Incompatible Materials to Avoid:	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	None.

11. TOXICOLOGICAL INFORMATION

Acute Effects

No acute effects from exposure to intact tile are known. Working with broken or cut tile produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as dry cutting tile or during the removal of installed tile. In very rare cases, symptoms of acute silicosis, a form of silicosis may develop following acute exposure to extremely dusty environments. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

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Chronic Effects

No chronic effects are known for exposure to intact tile. Long-term, continual exposure to respirable crystalline silica at or above established permissible occupational exposure limits may lead to the development of silicosis, a nodular pulmonary fibrosis (NPF). NPFs are also associated with pulmonary tuberculosis, bronchitis, emphysema, and other airway diseases. This type of chronic exposure to silica dust may also result in the development of autoimmune disorders, chronic renal disease, and other adverse health effects.

Recent epidemiologic studies demonstrate that workers exposed to elevated silica concentrations have a significant risk of developing chronic silicosis. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can also arise from many other causes.

Potential Adverse Interactions

Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established that silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica. Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to silica dust at or above permissible exposure limits.

Carcinogen Status

Respirable crystalline silica is classified by the International Agency for Research on Cancer (IARC) as a Group I Carcinogen (carcinogenic to humans).

Overview of Animal Testing

Short term experimental studies of rats have found that intratracheal instillation of quartz particles leads to the formation of discrete silicotic nodules in rats, mice and hamsters.

Oral (silica) Lethality

LD50 Rat oral >22,500 mg/kg
LD50 Mouse oral >15,000 mg/kg
LC50 Carp >10,000 mg/l (per 72 hr.)

12. ECOLOGICAL INFORMATION

There are no known hazardous decomposition products.

Persistence and degradability : Not biodegradable

Aquatic toxicity : Not known

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13. DISPOSAL CONSIDERATIONS

Under normal conditions these products are not considered hazardous waste and do not release hazardous materials after installation. Dispose in accordance with Federal, state and local waste disposal regulations

14. TRANSPORTATION INFORMATION

D.O.T Shipping Name:	Not applicable
Hazard Class:	Non-regulated (For disposal purposes material is non-hazardous Class III regulated material)
ID Number:	Not applicable
Marking:	Not applicable
Label:	None
Placard:	None
Hazardous Substance/RQ:	Not applicable
Shipping Description:	Porcelain/Ceramic
TilesPackaging References:	None

15. REGULATORY INFORMATION

Refer to the regulatory exposure limits for dust released during cutting, grinding or removal. (See Item 8).

Note: The information in this data sheet provides information related to the potential hazards associated with dusts which may be produced during cutting or otherwise changing the shape of the tile during installation and/or removal.

16. ADDITIONAL INFORMATION

Global Harmonization Identification System
GHIS: Health: 3 Fire: 4 Reactivity: 4

Hazardous Material Identification System
HMIS: Health: 1 Fire: 0 Reactivity: 0

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Please take note of the following additional safety measures when installing or processing tiles:

- Wear adequate working clothes
- Wear knee protection
- Wear safety shoes
- Use appropriate lifting and transporting equipment

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