



Sustainable Tile Manufacturer

Thinking Green, Living Green

www.heritageceramics.com



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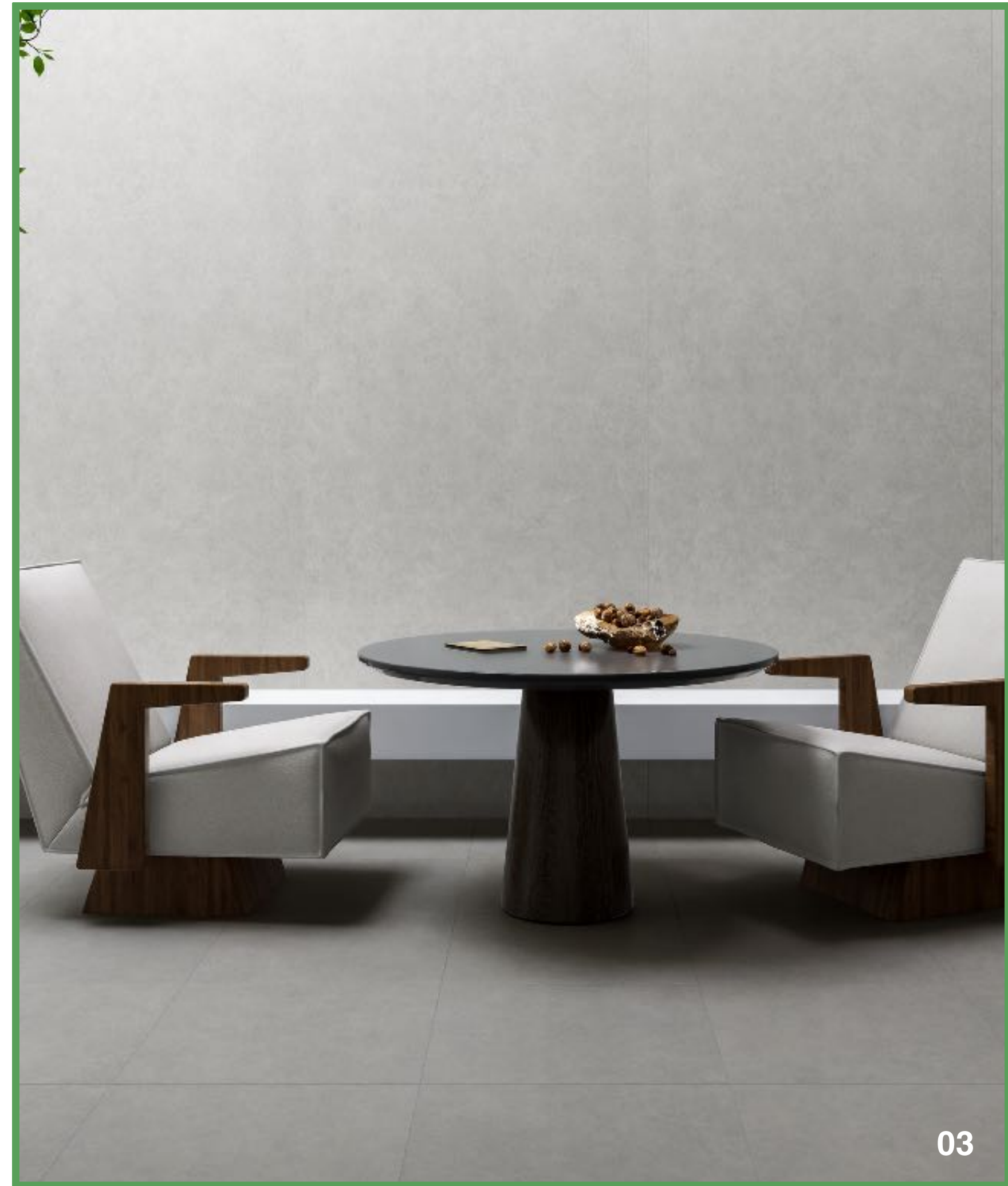
Protecting the Earth,
for our Future Generations



01 Environmental Pledge

At Heritage Ceramics, we believe that tiles should not only elevate spaces but also support a healthier planet. Since 2001, we have been committed to responsible tile manufacturing by reducing emissions, conserving energy, and minimising waste across our operations.

We pledge to design and produce tiles with sustainability in mind, prioritising eco-conscious materials, efficient production methods, and long-term environmental impact. Through continuous innovation, we aim to deliver beautiful, lasting surfaces that reflect both quality and care for the world we live in.



02 Why Ceramic Tiles Are a Sustainable Choice for Building

As the global demand for sustainable building solutions continues to grow, ceramic tiles have emerged as a responsible and environmentally friendly choice. Known for their durability, low maintenance, and long life cycle, ceramic tiles contribute to greener construction practices by reducing resource consumption and supporting healthier indoor environments.

This presentation explores how ceramic tiles align with sustainability goals across material sourcing, manufacturing, usage, and end-of-life impact.



5 Ways Ceramic Tiles Support Sustainable Building Practices

01 Raw Materials

Ceramic tiles are primarily made from natural, abundant raw materials such as clay, sand, and minerals. Unlike natural stone tiles, which require quarrying large deposits of rock, ceramic tile raw materials are often sourced with less environmental disruption. The natural clay used in ceramics can also be reused or recycled in some cases, supporting resource efficiency.

02 Energy Consumption

Ceramic tiles are manufactured through an energy-optimized firing process that has become increasingly efficient due to technological advancements like improved kiln designs and heat recovery systems. This efficiency significantly reduces the energy needed compared to the extraction and processing of natural stones, which involve energy-intensive quarrying and heavy machinery.

03 Durability & Maintenance

Ceramic tiles are highly durable, resistant to moisture, stains, and wear, which results in a long lifespan with minimal need for replacement or maintenance. This durability reduces material consumption over time, making ceramic tiles an eco-friendly option for flooring and walls.

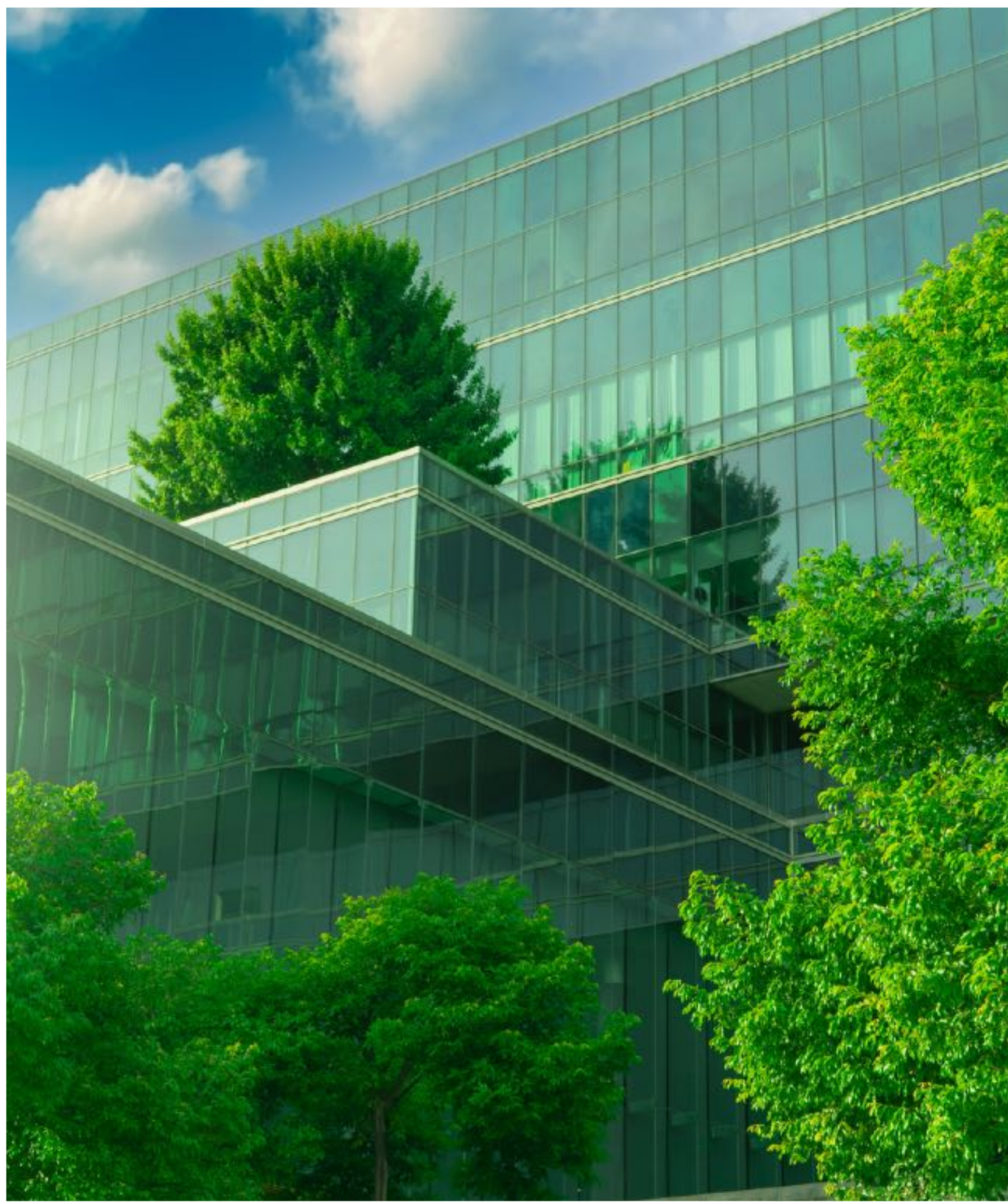
5 Ways Ceramic Tiles Support Sustainable Building Practices

04 Health and Environmental Safety

Ceramic tiles are made from natural, inert materials that do not emit harmful volatile organic compounds (VOCs), ensuring better indoor air quality. Unlike some synthetic flooring options that can release chemicals over time, ceramic tiles provide a safe, non-toxic surface that supports healthier living environments. Their resistance to mold and moisture also helps maintain clean, allergen-free spaces.

05 Sustainable End-of-Life Cycle

At the end of their life cycle, ceramic tiles can be crushed and recycled as construction aggregate or used as filler material in new building projects. This reuse reduces the amount of waste sent to landfills and minimizes the need for extracting new raw materials, supporting a circular economy. By turning discarded tiles into valuable resources, recycling ceramic tiles helps lower the overall environmental impact of construction and promotes more sustainable building practices.



Committed to Sustainable Excellence

Ceramic tiles offer numerous benefits, making them an excellent choice as a sustainable building material in today's environmentally conscious world. While we've highlighted the key advantages, it's important to recognize that sustainability encompasses many factors, including the ethical practices of manufacturers and suppliers.

At Heritage Ceramics, we are committed to transparency and responsibility. We collaborate closely with recognised organisations to obtain rigorous ethical and environmental certifications, ensuring our ceramic tiles consistently meet and exceed sustainability standards. By choosing Heritage Ceramics, you're partnering with a company dedicated to quality, innovation, and a greener future.

03 Driving Sustainable Development Through Certifications and Materials

Sustainability is no longer just a trend but a key driver in design and construction. More companies and consumers are choosing eco-friendly materials that reduce environmental impact without sacrificing quality. In Singapore, **green building certification programs** promote sustainable practices by providing certification frameworks that recognize energy-efficient and resource-conscious projects.

Using materials like ethically made ceramic tiles helps meet these standards. Let's explore how these programs work and how Heritage Ceramics supports sustainable development through responsible products.



Key Green Building Certification Programs

01 LEED Certification

LEED (Leadership in Energy and Environmental Design) is a globally recognized green building certification program that promotes sustainable building practices. It provides a framework for designing, constructing, and operating buildings that are energy-efficient, resource-saving, and healthier for occupants.

Many projects in Singapore pursue LEED certification to demonstrate their commitment to environmental responsibility and to meet both local and international sustainability standards.

02 BREEAM Certification

BREEAM (Building Research Establishment Environmental Assessment Method) is one of the world's leading sustainability assessment methods for buildings. While it originated in the UK, BREEAM is increasingly used globally, including in Singapore, to evaluate and improve the environmental performance of construction projects.

The certification covers energy use, water efficiency, materials, waste, and indoor environmental quality, helping developers meet high sustainability standards and reduce their ecological footprint.

03 Green Mark Certification

Green Mark Certification is Singapore's national green building rating system, established by the Building and Construction Authority (BCA). It promotes sustainable building practices by assessing environmental impact, energy efficiency, water conservation, and indoor environmental quality.

Widely adopted across Singapore, Green Mark helps developers and builders design buildings that reduce carbon emissions and resource consumption, supporting the country's goal of a sustainable and resilient built environment.



Sustainable sourcing of materials plays a key role at this stage.

Meeting the requirements of green building certifications starts with sourcing sustainable materials and partnering with responsible manufacturers. Choosing products from manufacturers that hold green certifications—either from bodies recognized by Singapore’s Building and Construction Authority (BCA) or internationally recognized organizations—is essential to achieving higher sustainability scores.

In Singapore’s ceramic tile industry, there are 2 key certifications

1. Singapore Green Building Product (SGBP)
2. Singapore Green Labelling Scheme (SGLS)

Selecting tiles certified under these schemes can help ensure your project aligns with green building standards.

1) Singapore Green Building Product (SGBP)

In line with the World Green Building Council's vision of creating green buildings for all, the **Singapore Green Building Council (SGBC)** is committed to making our living, working, and recreational spaces healthier, more sustainable, and resource-efficient. To support the transformation of Singapore's built environment toward greater sustainability and carbon efficiency, SGBC oversees the **Singapore Green Building Product (SGBP) certification scheme**.

The SGBP certification recognises environmentally responsible building products and promotes sustainable sourcing. It ensures that sustainability is embedded throughout a product's design and manufacturing process, supporting greener choices across the construction industry.

Source: Singapore Green Building Council (SGBC)



SGBP Recognition

The **Singapore Green Building Product (SGBP) certification** is a key benchmark for sustainable building materials in the construction industry. Products certified under SGBP are recognised by the **Building and Construction Authority (BCA)'s Green Mark Scheme**, Singapore's national green building rating system, and contribute points toward a project's Green Mark score—the higher the SGBP rating (more ticks), the more points awarded.

SGBP is also accepted by regional green building tools such as GreenRE (Malaysia) and LOTUS (Vietnam), and aligns with ISO 14024 standards for environmental labelling. Comparable to global eco-labels like Cradle to Cradle, DECLARE, and Global GreenTag, the SGBP scheme continues to evolve, with plans to expand recognition for products excelling in circularity, low embodied carbon, and social responsibility.

Source: Singapore Green Building Council (SGBC)



Benefits of SGBP

For Designers and Specifiers:

Access a reliable list of certified sustainable products and compare their environmental performance. This simplifies decision-making when selecting materials aligned with green building goals.

For Builders and Building Owners:

Gain access to sustainability data on certified products, helping you make informed choices while adding a competitive, eco-friendly edge to your projects.

For Tenants and Occupants:

Better understand the sustainability of the spaces you live or work in, and benefit from the improved health and comfort associated with green buildings.

Once certified, products receive an official certificate and are listed in the **SGBP Certification Directory** on the Singapore Green Building Council's website. This interactive directory is a trusted resource used by industry professionals—including developers, consultants, and contractors—who may specify SGBP-certified products to meet green building criteria and earn credits under various sustainability rating tools.

Source: Singapore Green Building Council (SGBC)



2) Singapore Green Labelling Scheme (SGLS)

Administered by the **Singapore Environment Council (SEC)** since 1999, the **Singapore Green Labelling Scheme (SGLS)** is a respected environmental certification that helps consumers identify products meeting rigorous eco-standards. With over 3,800 unique products certified across 43 countries, SGLS is Singapore's recognized **Type I ecolabel**, independently verified by third parties based on comprehensive life cycle assessments.

To earn certification, products must fall within defined categories and meet strict environmental criteria designed to minimize their impact. The scheme encourages manufacturers to adopt international best practices and supports regional growth through its connection to the Global Eco-Labelling Network (GEN)—of which SEC is the only Singaporean member.

As a non-profit, independent NGO, SEC partners with organizations and government agencies to promote sustainable development and lasting environmental stewardship.

Source: Singapore Green Labelling Scheme (SGLS)



SGLS Recognition

The **Singapore Green Label** is widely recognized by ministries, government agencies, procurement officials, and industry professionals throughout the region. Additionally, products certified under the Singapore Green Label are eligible to earn points in major green building rating systems, including the BCA Green Mark Scheme (Singapore), Malaysia Green Building Index, Hong Kong BEAM Plus, and Vietnam LOTUS.

Source: Singapore Green Labelling Scheme (SGLS)



Benefits of SGLS

Choosing products certified under the Singapore Green Labelling Scheme (SGLS) ensures they meet strict environmental standards verified by independent third parties. These products promote sustainable manufacturing, reduce environmental impact, and support resource efficiency. Widely recognized by government and industry, SGLS-certified products help meet green procurement requirements and contribute to earning credits in regional green building rating systems.

Source: Singapore Green Labelling Scheme (SGLS)





Difference between SGBP & SGLS

The Singapore Green Building Product (SGBP) certification and the Singapore Green Labelling Scheme (SGLS) are two distinct programs that promote sustainability but serve different scopes and are administered by separate organizations. SGBP, managed by the Singapore Green Building Council (SGBC), focuses exclusively on building materials and is closely linked with the Building and Construction Authority (BCA)'s Green Mark Scheme, enabling certified products to contribute points toward green building ratings.

On the other hand, SGLS is run by the Singapore Environment Council (SEC), an independent non-governmental organization. It certifies a wide variety of environmentally preferred products across many industries based on rigorous life cycle assessments, beyond just construction materials. While SGLS is not administered by BCA, its certified products are recognized and accepted within the BCA Green Mark Scheme and other regional green building rating tools, supporting broader sustainable consumption and production.

04 Heritage Ceramics: Our Certifications

1. ISO 9001: 2015

ISO (International Organization for Standardization) is a worldwide federation of national standard bodies (ISO member bodies). Members come together to prepare the required industry and quality requirements and standards for different type of products. Each member body interest in a subject for which a technical committee has been established has the right to be represented on the committee.

ISO 9001:2015 is an international standard for quality management systems that helps organizations consistently deliver products and services that meet customer and regulatory requirements. It emphasizes process efficiency, continual improvement, and effective resource management.

At Heritage Ceramics, implementing ISO 9001:2015 supports our commitment to quality and sustainability by promoting streamlined operations and reducing waste. Although it is not an environmental certification, it complements our efforts toward responsible manufacturing and minimizing our environmental footprint.



Heritage Ceramics: Our Certifications

2. ISO 13006:2018

ISO 13006:2018 establishes rigorous international standards for ceramic tile manufacturing, promoting efficiency, reliability, and high-quality production. At Heritage Ceramics, we take pride in ensuring our tiles comply with these standards by subjecting them to comprehensive testing, including surface quality assessments, mechanical strength evaluations, chemical resistance tests, etc.

This thorough testing process guarantees that our products are durable and reliable, which helps minimize waste by extending tile lifespan and reducing the frequency of replacements.

By adhering to ISO 13006:2018, we align our manufacturing practices with sustainability goals, demonstrating our commitment to producing eco-friendly, long-lasting tiles that support responsible building practices.



TEST REPORT

(This Report is issued subject to the terms & conditions set out below)



Seteco Services Pte Ltd
10 Tatten Garden, Singapore 6
24 Singapore 659003
Tel: (65) 6246 2777
Fax: (65) 6246 2778
www.seteco.com.sg
Business Reg No: 109900089

Your Ref: Application Dated 18/02/2019

Our Ref: CT-860004409IEC

Date: 28/02/2019

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Subject

Testing of Fully Body Unglazed Homogeneous Porcelain Tiles, submitted by Heritage Ceramics Pte Ltd on 18/02/2018.

Tested For

Heritage Ceramics Pte Ltd
81 Ubi Avenue 4
#03-18
Singapore 408830
Attn: Mr Ho Kok Zee

Method of Test

Surface Quality Test

Dimensional Test

Straightness of Sides Test

Rectangularity Test

Flatness of Surface Test

Water Absorption Test

Modulus of Rupture Test

Resistance to Surface Abrasion Test

Chemical Resistance Test

Stain Resistance Test

OE-Wheel Ramp Test

- ISO 10545 - 2: 1995

- ISO 10545 - 2: 1997

- ISO 10545 - 2: 1997

- ISO 10545 - 2: 1997

- ISO 10545 - 2: 1997

- ISO 10545 - 3: 2018

- ISO 10545 - 4: 1997

- ISO 10545 - 7: 1998

- ISO 10545 - 13: 2018

- ISO 10545 - 14: 2018

- SS 485:2011 (Annex D)

Specification

SS 485: 2010 (Annex G) / ISO 13006: 2012
SS 485: 2011 - Specification for slip resistance classification of pedestrian surface materials

Sample Reference

The details as furnished by client are as follows:
Material: Fully Body Unglazed Homogeneous Porcelain Tiles
Brand: Space Ceramics
Ref: Everest Ash M
Country of Origin: China
Work size: 600 x 900 x 10mm

Description of Sample

52 pieces of 8es were received.
Nominal size: 600 x 900 x 10 mm
(See photograph attached).

Results

Refer to pages 2 to 9 for results

Terms & Conditions:

1) This report is prepared for the sole use of the client and is not to be used for any other purpose. It is not to be used as evidence in any legal proceedings.

2) The client is responsible for the accuracy of the information provided to the testing laboratory.

3) The testing laboratory is not responsible for the accuracy of the information provided to the client.

4) The testing laboratory is not responsible for the accuracy of the information provided to the client.

5) The testing laboratory is not responsible for the accuracy of the information provided to the client.

6) The testing laboratory is not responsible for the accuracy of the information provided to the client.

7) The testing laboratory is not responsible for the accuracy of the information provided to the client.

8) The testing laboratory is not responsible for the accuracy of the information provided to the client.

9) The testing laboratory is not responsible for the accuracy of the information provided to the client.

10) The testing laboratory is not responsible for the accuracy of the information provided to the client.

TEST REPORT SAMPLE

Heritage Ceramics: Our Certifications

3. Singapore Green Building Product (SGBP) Certification 3 Ticks, Excellent

Heritage Ceramics' products from the Space (Premium Series) and Studio (Project Series) collections have been awarded the 3 Ticks Excellent Rating by the Singapore Green Building Council (SGBC) under the Singapore Green Building Product (SGBP) Certification.

Examples of the product documentation required by SGBC for assessment include, but are not limited to, the following:

- Avoidance of Hazardous Substances in Manufacturing
- Product Compliance with Avoidance of Hazardous Substances
- Product Fitness for Purpose
- Manufacturer Product Warranty
- Quality Management System of the Manufacturing Plant
- Energy Management System and Safety Management System of the Manufacturing Plant
- Environmental Management System of the Manufacturing Plant

The final SGBP rating is determined based on evaluations of submissions from Sections B and C of the required documentation, with ratings ranging from 1 Tick (Good) to 4 Ticks (Leader).



05 Commitment to Sustainable Practices

- **Working With Sustainability-Focused Partners**

Heritage Ceramics meticulously selects its manufacturing partners or factories, ensuring their goals and values align with our unwavering commitment to sustainability. This includes adhering to the highest environmental standards of emissions.

- **Product Development Process**

In our approach to product development, environmental impact is an important consideration. We meticulously evaluate every stage of the manufacturing process, from resource extraction to the final production, to ensure that we minimise our environmental footprint.

- **Quality Is Our Priority**

Quality is the cornerstone of Heritage Ceramics. We are committed to developing porcelain tiles that are exceptionally durable and designed to last for a lifetime.

This focus on quality not only ensures our porcelain tiles maintain their structural integrity and aesthetic requirements, but it will also significantly reduce waste and conserve resources.



05 Commitment to Sustainable Practices

- **Energy Consumption Management Efforts**

At Heritage Ceramics, we have implemented stringent measures to monitor and reduce energy consumption across all our premises, both factories and offices. Our continuous efforts have led to a substantial reduction in annual energy use, significantly lowering our CO2 emissions.

- **Educating The Community**

Through educational posts on sustainable tiles and guidance on proper maintenance, we empower the public with the knowledge to own their sustainable journey. Additionally, we collaborate with sustainability experts to ensure the best practices are shared and implemented.

- **Supporting Broader Green Initiatives**

At Heritage Ceramics, our commitment to sustainability goes beyond our operations. We actively support nationwide environmental efforts such as Singapore's OneMillionTrees Movement through donations.





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