

Cradle to Cradle® at Tarkett

Building
momentum
towards a
regenerative
circular
economy



EDITORIAL

Shifting to a regenerative circular economy is vital to protecting Earth's climate and conserving finite natural resources, as the world's population grows.

At Tarkett, we see this opportunity as a key way to create value for our stakeholders, build resilience and ensure our ongoing business success.

As we accelerate our transition, we are taking action to transform the way flooring and sports surfaces are produced and used. We are moving beyond the linear 'take-make-waste' industrial approach to maximise the value of our materials, helping to conserve natural resources while eliminating waste throughout our products' life cycle.

This starts with continuing to design our products in line with **Cradle to Cradle**® principles and optimising our materials, so they can be safely recycled or reused as raw materials for new products.

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“I am convinced that the building industry has a key role to play to shift towards a circular economy model. Cradle to Cradle® principles are a source of inspiration on this ‘circular’ journey.”

Fabrice Barthélemy
CEO Tarkett

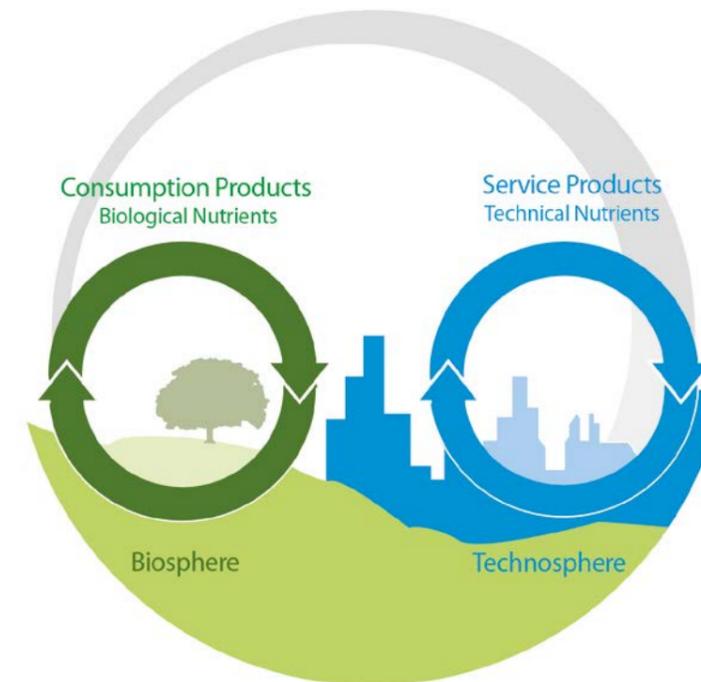
WHAT IS CRADLE TO CRADLE® ?

Rethinking product design to take our business circular

According to the Cradle to Cradle® vision and principles all materials are kept in use for as long as possible, and transformed into new materials when products reach end of use. All products, buildings and services are designed with the aim of achieving a regenerative, **circular economy**. In particular, products are designed from the outset with healthier materials that can be recovered at end of use and either returned to nature to nourish the earth or used again in industry, without compromising performance.

Since 2010, **Tarkett has applied Cradle to Cradle® principles in the design of all products, including vinyl flooring, carpets, linoleum, wood and artificial turf.**

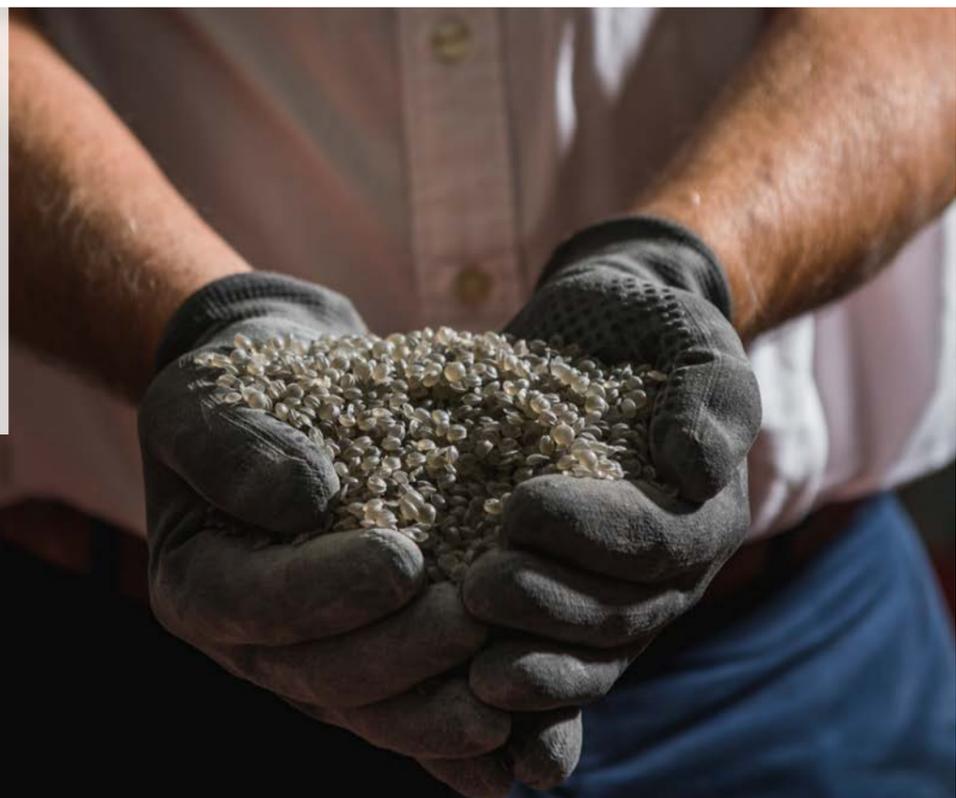
By continuously improving the health and environment credentials of our products, we strive to select materials and design products that can be recovered, recycled and transformed into new products.



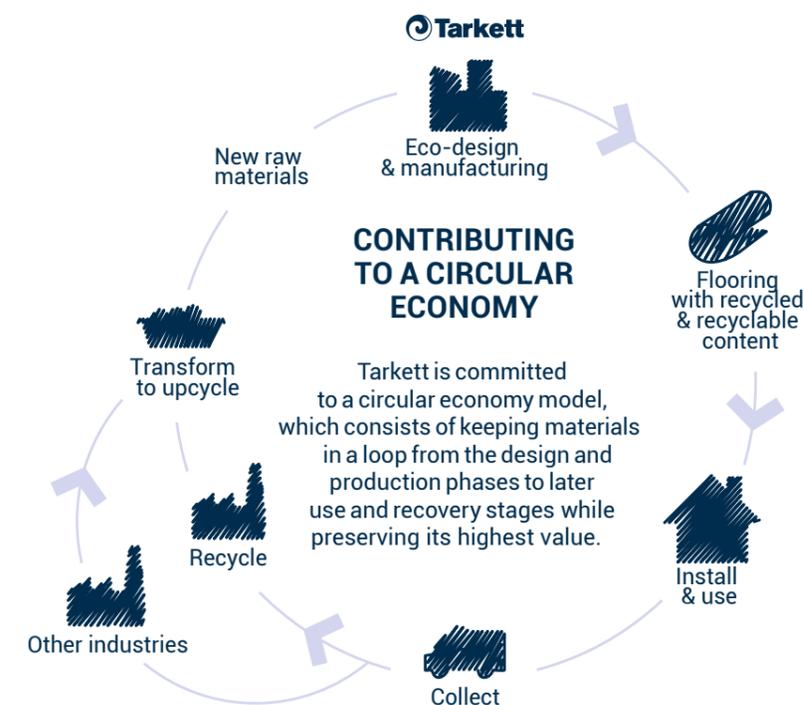
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“In nature, nothing is created and nothing is destroyed, but everything is transformed.”

Antoine-Laurent de Lavoisier
French chemist



Recycled PVB used in the production of our iD Revolution collection, the first Cradle To Cradle Certified™ Gold modular resilient flooring.



Cradle to Cradle® principles at Tarkett

At Tarkett, we have a longstanding commitment to transparency and Cradle to Cradle® principles. We listen to our partners' concerns and continuously take action to improve our products, with the support of respected, independent experts.

Today, **98%** of the materials used in our products are assessed by a third party, according to Cradle to Cradle® principles. The results of these assessments enable us to better understand the impact of our products and to select our raw materials more carefully by sharing our specifications with our suppliers.

Know your ingredients: The Cradle to Cradle® material assessment

Cradle to Cradle® certification approves a company's eco-design approach on the basis of five criteria: material health, product circularity, renewable energy and climate requirements, water stewardship and social fairness.

Each attribute is given a score (from low to high: Basic, Bronze, Silver, Gold and Platinum), with the lowest ranked attribute determining the overall score.



Material health

Knowledge of the chemical components of each raw material and optimisation towards safer materials according to C2C specifications.



Product circularity

Eliminating the concept of waste by helping to ensure products remain in perpetual cycles of use and reuse from one product use cycle to the next.



Renewable energy and climate requirements

Ensuring products are manufactured using renewable energy to reduce or eliminate the impact of climate changing greenhouse gases due to the manufacturing of the product.



Water stewardship

Clean water is a valuable resource and a fundamental human right.



Social fairness

Building organisations to respect all people and natural systems affected by the creation, use, disposal or reuse of a product.

* See all C2C certifications on professionals.tarkett.com

21 C2C certifications

In 2019, Tarkett achieved 21 C2C certifications*, one of the largest number of C2C certifications in the flooring sector, covering a wide range of product categories, including carpet, linoleum, rubber, wood and artificial turfs.

C2C sets high standards - Material health example

At Tarkett, to provide customers with product transparency, all ingredients are examined and evaluated by independent third parties. In this way, our customers benefit from knowing the exact composition of a product and gain reassurance that the product has been optimised to improve its health and environmental credentials.

The Cradle to Cradle® classification method for chemicals uses **24 strict health and environmental evaluation criteria**.

The C2C evaluation system works with a 'traffic light' hierarchy whereby the chemical hazard is allocated either a Green, Yellow, Red or Grey rating for each component. For a C2C Gold certification, for example, all ingredients must be rated 'Green' or 'Yellow'.

- A** Optimal
- B** Good
- C** Acceptable
- X** Problematic
- Grey** Without evaluation due to lack of complete data
- Black** Prohibited

The final certificate is issued by the independent Cradle to Cradle® Product Innovation Institute. **Every two years, manufacturers must demonstrate their efforts to improve their products in order for these to be recertified.**



Promoting transparency with Material Health Statements (MHS)

MHS are independently verified, scientific statements disclosing the health risks and hazards of a product's materials down to 100 ppm (0.01%). This transparency tool complements the environmental data provided by our Environmental Product Declaration (EPD) and Cradle to Cradle® certificates, contributing to the use of healthier materials and to greater transparency.

How we integrate Cradle to Cradle® design into our products



"It is our belief that a complete change is urgently needed to conserve finite natural resources and natural capital. We would like to invite you to join us in contributing to the development of a circular economy."

Fabrice Barthélemy, Tarkett CEO

Product circularity at Tarkett

In 2019, we used **126,000 tonnes** of recycled materials as raw materials, which represent 12% of our purchased raw materials. And by 2030, we aim for **30%** of our purchased raw materials (by volume) to be from recycled sources.

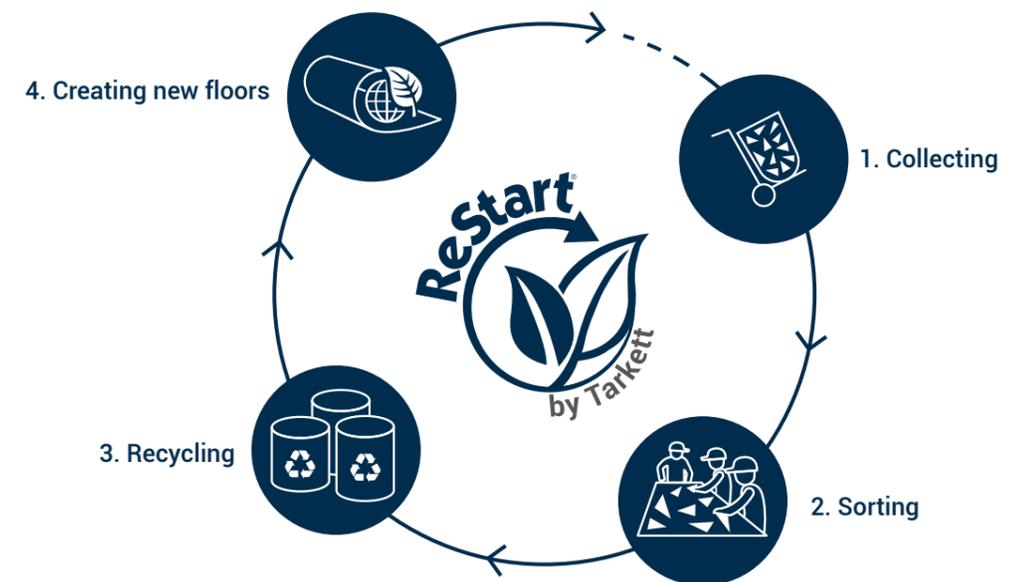
67% of the raw materials used by Tarkett in 2019 were recycled, rapidly renewable or abundant in nature.

For example, our Safetred ranges (safety vinyl floors) contain 40% recycled material. Many DESSO carpet tiles contain more than 80% recycled material and DESSO carpet tiles with EcoBase backing are 100% recyclable.

Through our ReStart® programme, we capture post-installation and post-consumer flooring*, ready to be recycled and transformed into high quality raw materials.

ReStart® take-back and recycling programme

Between 2010 and 2019, we collected **105,000 tonnes** of flooring globally (including vinyl, linoleum and carpet) worldwide through our ReStart® programme.



* Post-consumer flooring are carpet flooring, homogeneous vinyl flooring (produced after 2011).

DID YOU KNOW

... that we make products with very low VOC emissions?

Linoleum and a large number of Tarkett's floorings have a VOC level of <math><10 \mu\text{g}/\text{m}^3</math> after 28 days, which is below the detection limit for TVOC emissions. They are 100 times lower than the strictest standards thus contributing to improved indoor air quality.

Tarkett applies the Cradle to Cradle® concept to the development manufacture and aftercare services of all its products, including vinyl flooring. We design for life to help create healthier, more sustainable spaces, in the face of resource scarcity and climate change.

Material health at Tarkett

98% of our raw materials - more than 3,000 ingredients - are evaluated by independent third parties according to Cradle to Cradle® criteria. They are analysed in terms of their impact on the planet and human health and optimised step by step.

At the end 2019, **100%** of Tarkett's vinyl flooring production sites in Europe, in North America, in Serbia and in China use phthalate-free plasticiser technology*.

98% of our floorings have total volatile organic compounds (TVOC) emissions that are **10 to 100 times** lower than the strictest standards, helping to promote good indoor air quality.

Tarkett works with global organisations to promote sustainable forestry. More than 60% of our wood raw material in EMEA is FSC® or PEFC™-certified.

* Except recycled content for certain products.



Renewable energy and Climate requirements at Tarkett

28% of the energy consumption at Tarkett's factories comes from renewable energies. Solar energy is used at our administrative buildings and factories, such as our carpet sites in Dendermonde (Belgium) and Waalwijk (the Netherlands), as well as our linoleum site in Narni, Italy which also uses geothermal energy. Wood waste from our production is used as biomass for energy production at seven of our plants*. We also believe we can make a difference by using recycled content, thus conserving the world's natural resources and helping to tackle climate change by cutting out the vast amounts of energy and water needed to extract and process virgin materials.



Water stewardship at Tarkett

Today, **66%** of Tarkett production facilities are equipped with closed water circuits or do not use water in their manufacturing process helping to reduce water consumption intensity (l/m²) which has decreased by 50% compared to 2010**.



Promoting social fairness and collaboration at Tarkett

At Tarkett, we seek to enhance internal and external collaboration by collaborating with responsible key stakeholders including NGOs, experts and public institutions.

We are committed to this through our participation in national and European-level circular economy initiatives including Globe EU, INEC France and Ecopreneur EU. We are also a member of the CE 100 Network of the Ellen MacArthur Foundation.

Also, Tarkett appointed a company specialized in sustainability ratings and supply chain intelligence to perform a procurement CSR risk mapping covering most of Tarkett's suppliers worldwide. Moreover, we are committed to the principles of the United Nations Global Compact (UNGC) and ask our main suppliers to do likewise. These principles cover the themes of human rights, working conditions, the fight against corruption and respect for the environment.



Contribution to the achievement of the Sustainable Development Goals (SDG) set by the UN.



Committed to the transition to a circular economy.



Committed to the UNGC principles.

* Hanaskog and Ronneby (Sweden); Narni (Italy); Orzechowo (Poland); Kalush (Ukraine); Bačka Palanka (Serbia) and Mytishchi (Russia).
**See 2019 CSR report for details

C2C-
certified™
products



Linoleum



- 100% natural raw materials
- 100 % recyclable
- 100% natural colour Collection
- Optimum ecological footprint production

Lino Originale
Essenza



Carpet tiles



- EcoBase®: 100% recyclable carpet backing
- 94% of our DESSO carpet tile collections are Cradle to Cradle® certified™

AirMaster®
Gold Collection



Designed by Nature

For over 120 years, Tarkett has produced high quality linoleum floors in an ecologically efficient way, using natural raw materials such as linseed oil, resin, jute, wood and cork flour. The floors are 100% recyclable.

For the production of our linoleum floors, 34% of the energy comes from renewable sources. The Tarkett plant in Narni, Italy, uses closed water circuits.

Tarkett Originale Essenza is the first linoleum collection made from 100% natural raw materials with C2C Gold certification, since its colour pigments are derived from vegetable sources such as walnut shells.



A better world, a better workplace

DESSO AirMaster Gold has achieved Cradle to Cradle® Gold certification, with Cradle to Cradle® Platinum level - the highest possible - for material health. Its ECONYL® regenerated yarn and EcoBase™ backing, featuring upcycled chalk, are 100% recyclable and can be recycled in a closed loop with no loss of quality. DESSO AirMaster Gold Collection offers low levels of VOCs, in line with rigorous Cradle to Cradle® Gold criteria¹. With the same unique fine dust-capturing functionality offered by all DESSO AirMaster Collections, AirMaster Gold goes a step further in creating a healthier workplace and a more sustainable world.

¹ This standard prescribes that: TVOC must be < 0.5 mg/m³. Individual VOCs < (0.01) x [the lower of the TLV or MAK value]. The time point used is 7 days.



Non-PVC Homogeneous flooring



- First C2C certified™ Gold homogeneous floor covering
- No phthalates, plasticisers, biocides and heavy metals
- 100% recyclable and certified with the Blue Angel Eco-label

iQ One



Non-PVC resilient modular tiles



- First C2C certified™ Gold resilient modular flooring
- iD Revolution has achieved Platinum level for material health, which is the highest level of assessment
- Blue Angel certified

iD Revolution



Perform with style

Spaces with high demands require floors that offer maximum performance. This is what iQ One stands for.

Its excellent environmental properties and outstanding performance make iQ One the ideal floor for highly frequented public areas such as hospitals and schools.

It is the first homogeneous floor covering with C2C Gold certification and consists of 100% positively defined materials.

iQ One is manufactured using over 50% renewable energy and is fully recyclable.



The non-PVC design revolution

With iD Revolution, Tarkett has developed the first modular resilient flooring to be Cradle to Cradle® Certified™ at Gold level. It is regenerative by design and 83% of its components are recycled, mineral or bio-based materials. This includes 24% recycled PVB derived from end-of-life vehicle windscreens or safety glass from buildings.

100% of electricity needs are met by renewable sources, while the entire manufacturing process is optimised to save energy. 99% of the water used in the production process is recycled in a closed loop.



Wood



- First C2C certified™ Silver wood flooring
- More than 60% of our EMEA wood raw materials are FSC® or PEFC™ - certified - we supply 100% certified floors on request

Parquet



Artificial turf



- Artificial turf 100% recyclable
- Synthetic turf range 100% C2C certified - 55 products
- A wide range of sustainable &/or organic infills available

Synthetic turf



Natural beauty. Natural choice.

Our Cradle to Cradle® certified™ Silver wood floors can help to enrich life. A life in which healthy materials contribute to good health and in which we are responsible managers of resources that are continuously reused.

Tarkett is the first wood flooring manufacturer in Europe with Cradle to Cradle® certified™ products. All our wood floors with a total thickness of 10 mm or more are Cradle to Cradle® certified™ Silver.

Many of our wooden floors meet C2C Gold level in terms of social standards and water stewardship. 98% of Tarkett products are in the WHO* Low VOC category. This includes all hardwood floors.



*World Health Organization.

Best investment time and time again.

Our sports surfaces are eco-designed according to Cradle to Cradle® principles.

And choosing quality materials is one of these pillars. Tarkett uses exclusive in-house manufactured PE fibres that can be recycled and reused once it has served its purpose.

We have also recently developed sustainable, recyclable and reusable infill solutions, such as ProMax HydroFlex which is made from end-of-life synthetic fields that are removed and mixed with our high-end exclusive polymers to deliver an infill solution that can in turn be recycled and/or reused.



OUR CRADLE TO CRADLE® CERTIFIED™ PRODUCTS

Carpet	DESSO® EcoBase™ PA6 Solution Dyed Carpet Tiles Gold	Gold
	DESSO® EcoBase™ Carpet Tile Backing	Gold
	DESSO® Axminster Gold	Gold
	DESSO® EcoBase™ PA 6 Continuous Dyed Carpet Tiles	Silver
	DESSO® EcoBase™ PA 6 Solution Dyed Carpet Tiles	Silver
	DESSO® EcoBase™ PA 6.6 Continuous Dyed Carpet Tiles	Silver
	Continuous Dyed Broadloom	Bronze
	DESSO® PA6 Continuous Dyed Carpet Tiles	Bronze
	DESSO® PA6 Solution Dyed Carpet Tiles	Bronze
	DESSO® PA6.6 Continuous Dyed Carpet Tiles	Bronze
	Solution Dyed Broadloom	Bronze
	Ethos® Modular	Silver
Resilient flooring	iQ One	Gold
	iD Revolution	Gold
Linoleum	Originale Collection	Gold
	LinoWall	Silver
	Tarkett Linoleum Flooring	Silver
Wood	Parquet	Silver
Rubber	Rubber Wall Base (BaseWorks®)	Silver
	Rubber Tile and Sheet	Bronze
Artificial turf	Synthetic Turf	Bronze

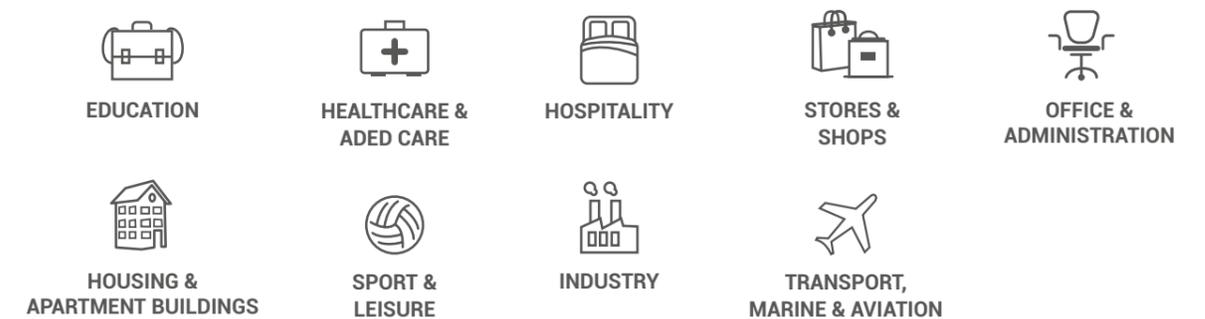
TARKETT AT A GLANCE

140 years of innovation, quality and a long-term commitment to sustainability have made Tarkett a global leader in flooring and sports flooring solutions for all market segments.

Tarkett worldwide - in over 100 countries



Segments - Solutions for a wide range of applications



Products - broad portfolio of floor coverings





■ **WESTERN EUROPE:** Austria: Tarkett Holding GmbH, Niederlassung Wien – Tel. +43 1 47 88 062 ■ **Belgium:** Tarkett Belux Sprl – Tel. +32 16 35 98 80 ■ **Denmark:** Tarkett A/S – Tel. +45 43 90 60 11 ■ **Finland:** Tarkett Oy – Tel. +358 9 4257 9000 ■ **France:** Tarkett SAS – Tel. +33 1 41 20 42 49 ■ **Germany:** Tarkett Holding GmbH – Tel. +49 62 33 810 ■ **Greece:** Tarkett Monoprosopi Ltd – Tel. +30 210 6745 340 ■ **Italy:** Tarkett S.p.A. – Tel. +39 0744 7651 ■ **Luxembourg:** Tarkett GDL SA – Tel. +352 949 211 8804 ■ **Netherlands:** Tarkett BV – Tel. +31 416 685 491 ■ **Norway:** Tarkett AS – Tel. +47 32 20 92 00 ■ **Portugal:** Tarkett SA – Tel. +351 21 427 64 20 ■ **Spain:** Tarkett Floors S.L. – Tel. +34 91 358 00 35 ■ **Sweden:** Tarkett Sverige AB – Tel. +46 771 25 19 00 ■ **Switzerland:** Tarkett Holding GmbH – Tel. +41 043 233 79 24 ■ **Turkey:** Tarkett Aspen – Tel. +90 212 213 65 80 ■ **United Kingdom:** Tarkett Ltd – Tel. +44 (0) 800 328 2115 ■ **EASTERN EUROPE:** Baltic Countries: Tarkett Baltics: Tel. +370 37 262 220 ■ **Czech Republic:** Tarkett org. slozka – Tel. +420 271 001 600 ■ **Hungary:** Tarkett Polska SP Z.O.O. magyarországi fióktelepe – Tel. +36 1 437 8150 ■ **Poland:** Tarkett Polska Sp. z o. o. – Tel. +48 22 16 09 231 ■ **Russian Federation:** ZAO Tarkett RUS – Tel. +7 495 775 3737 ■ **Slovakia:** Tarkett Polska, organizačná zložka – Tel. +421 2 48291 317 ■ **South East Europe:** Tarkett SEE – Tel. +381 21 7557 649 (44) 569 12 21 ■ **Ukraine:** Tarkett UA – Tel. +38 (0) 44 35 45 621 ■ **ASIA AND OCEANIA:** Australia: Tarkett Australia Pty Ltd – Tel. +61 2 88 53 12 00 ■ **China:** Tarkett Floor Covering (Shanghai) Co. Ltd. – Tel. +86 (21) 60 95 68 38 ext 841 ■ **North East Asia:** Tarkett Hong Kong Limited – Tel. +852 2511 8716 ■ **India:** Tarkett Flooring India Pvt. Ltd. – Bangalore – Tel. +91 80 4130 3793 – New Delhi – Tel. +91 11 4352 4073 – Mumbai – Tel. +91 22 2648 8750 ■ **South East Asia:** Tarkett Flooring Singapore Pte. Ltd. – Tel. +65 6346 1585 ■ **AFRICA:** Tarkett International: Tel. +33 1 41 20 41 01 ■ **MIDDLE EAST:** Tarkett Middle East: Tel. +961 1 51 3363/4 ■ **Israel:** Tarkett International: Tel. +33 1 41 20 41 01 ■ **NORTH AMERICA:** USA: Tarkett Inc. – Tel. +1 713 869 5811 / Johnsonite – Tel. +1 440 543 8916 ■ **Canada:** Tarkett Inc. – Tel. +1 450 293 173 ■ **LATIN AMERICA:** Brazil: Tarkett – Tel. 55 12 3954 7108 ■ **Argentina - Chile - Uruguay:** Tarkett Latam Mercosur – Tel. +54 11 47 08 07 72 / +54 9 11 44 46 88 82 ■ **Bolivia - Colombia - Ecuador - Panama - Paraguay - Peru - Trinidad and Tobago - Venezuela:** Tarkett – Tel. +55 11 9 9410 9310 / +55 11 95494 0069 ■ **Mexico /Central America:** Tarkett Latam Mexico – Tel. +55 11 98410 9310

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