SUSTAINABLE**TILES**

Uniquely low impact tiles made from recycled materials

Designed and made by



Our story starts... where others finish...

With unwanted manufacturing materials that others discard. We take those materials and put them through an ingenious, lowimpact process to give them a new life. The result is a new kind of material, combining recycled glass and porcelain, to create tiles and solid surfaces with a unique character and low environmental impact.

Why we are different

Alusid takes pre-consumer by-products from ceramic and glass production. We source this from other companies and aggregate it together to make a blended product. Intead of mixing this material with water and milling it we add water and ganulate the materials to create our products.

About Alusid

Beautiful recycled tiles & stunning sustainable surfaces

We transform low-value waste materials into the most desirable high-value architectural tiles.

Alusid started life as a research project called the 'Aesthetic of Waste' at the University of Central Lancashire, Preston, UK.

Professor David Binns and Dr Alasdair Bremner set out to explore ways in which waste and low-value materials destined for landfill could be transformed into beautiful, versatile products for the architectural and interior market.

In 2015 Alusid was formed from this project and over the last nine years have grown to become an award-winning specialist in the ceramic recycling industry, creating tiles and solid surfaces for companies as diverse as Topps Tiles, Harrods, H&M, Starbucks and Nando's.

Our first product was Silicastone, a bespoke hand made solid surface, made from 98% recycled materials in the UK. Since our inception we have been driven by a desire to reduce waste and to transform it into beautiful surfaces that are informed by the materials themselves.

Alusid's aim is to reduce the impact of ceramic tiles and make the most of the materials that other industries discard. This catalogue is our first to feature our new ranges of tiles made at scale using standard tile making equipment but made from our recycled materials. Every one of our sustainable tile base is made from at least 95% recycled materials.

For more info visit us www,alusid.co.uk



Preston R&D facility and batch production

Principle™



Principle Off White



Principle Blue

Made from 91.3% recycled materials

Our tile body is made from raw materials that are 95% recycled, we use an industry standard glaze to give us a final product that is 91.3% recycled amongst the highest percentage recycled ceramic tile in the world.

All of the recycled materials we use are by-products of industrial manufacturing sourced from other companies who are unable to reuse them within the existing process or it represents too high a risk of contamination. In many cases the materials are sludges or very fine particles which are difficult for our suppliers to reuse.

What makes Principle different?

From the outset, our manufacturing processes have been designed to minimise environmental impact, with the aim being to produce tiles and architectural surfaces that have a much lower carbon footprint than ceramic products made by conventional manufacturing methods. All our products, are made almost entirely from low value recycled industrial waste, much of which may have been otherwise destined for landfill. Using recycled waste, rather than virgin raw materials, also reduces the environmental damage caused by the mining and extraction of raw materials.

Principle's tile body is made from 95% recycled material - one of the highest percentages on the market. We source waste direct from other ceramic industries and from glass recycling. Typically these materials are used for low value applications such as fiber glass or as fillers in concrete, in some cases the materials end up going to landfill.

However, these materials have a high amount of embodied energy as a result of the processing they go through in their formation in other industries. By combining them in specific ratios we are able to produce a tile that can be fired at a lower temperature compared to standard tiles. Our tiles are fired at 50°C lower than the same products.

Every m² of Principle[™] produced diverts up to 8kg from landfill

Unique tiles formed by unique raw materials

The glass in our tiles comes from soda lime glass, this is a by-product from municipal recycling of household container and window glass. The small particles of glass in the tile melt during the production process and produce small bubbles and interact with the glaze to add extra depth in the tile surface and glaze, this process makes the surface shimmer and reflect light in ways that are different from an standard ceramic tile body.

Recycled soda lime glass from containers and float glass recycling

Vitrified waste from refractory industry

Recycled sludge from tableware manufacture

Porcelain edge grinding dust from floor tile manufacture



Principle Amber

Principle™

Principle tile body is made with 95% recycled materials in a range of 4 traditional colours.

The unique manufacturing process ensures every tile is individual, varying slightly in both colour and texture, bringing a unique contemporary twist to any design scheme.

Colours



GREEN Gloss Varied Glaze



AMBER Gloss Varied Glaze



WHITE Gloss Varied Glaze



BLUE Gloss Varied Glaze

Size

292MM X 73MM

THICKNESS OPTIONS

8.3mm

Specifications

CLASSIFICATION	BIII
WATER ABSORPTION	7%
TILE LINEAR DIMENSIONS	+/- 0.3%
DIMENSION RECTANGULARITY	0.71%
MAX THICKNESS DEVIATION	+/- 0.4mm
STAIN RESISTANCE	Class 5
REACTION TO FIRE (CWT)	A1

THERMAL SHOCK	No evidence of damage
BOND STRENGTH	Resin - 6.4N/mm2 / Dispersion - 2.4N/mm2
REQUIRES SEALING	Yes
INDOOR USE	Yes
OUTDOOR USE	No
THERMAL EXPANSION	N⁄A

Mas[™]

Mas is More. Our first floor tile that does more with less. Commercial grade performance in a contemporary quarry style floor and wall tile made from at least 95% recycled material, available in a range of colours and sizes.

Mas takes waste from tile manufacturing process in Spain and fuses unique dry granulation technology with heritag expertise to create stunning and sustainable tiles with one of the lowest carbon footprints on the market.



Mas Charcoal and Ochre



Mas Grey



Setting a new standard

We have worked with The Materials Processing Institute to conduct an LCA (Life Cycle Analysis). And have published Environmental Product Declaration (EPD) according to ISO 14025. Our results show our Mas tile has one of the lowest carbon footprints on the market with A1-A3 GWP of only 5.9 kg CO₂ per m²

Mas

Colours



Gloss Varied Glaze



CHARCOAL Gloss Varied Glaze

OCHRE





RED Gloss Varied Glaze

Sizes

GREY

198MM X 198MM 198MM X 98MM



THICKNESS OPTIONS

8mm

Specifications



SLIP RESISTANCE	36+ PTV
BREAKING STRENGTH	40 Nmm3
THERMAL SHOCK	No evidence of damage
BOND STRENGTH	NPD
REQUIRES SEALING	No
INDOOR USE	Yes
OUTDOOR USE	Yes
DEEP ABRASION	<175mm

ECO PLATFORM

Làbha Eco Lavastone

Làbha -91.3% recycled

With Làbha Alusid introduces the world's first eco lavastone, using ultra modern production processes married with an artisanal approach to glaze formulation, Labha is both rich and luxurious with a durable and multifaceted surface.



Labha White





Varied broken edge produced by the granulated glaze applicaiton, this is unpredictable and means that every tile has it's own unique finish

Làbha Eco Lavastone

Colours



WHITE Gloss Varied Glaze

BROWN Gloss Varied Glaze



BLUE Gloss Varied Glaze

Size

282MM X 91MM

THICKNESS OPTIONS

9mm

Specifications

CLASSIFICATION	BIII
WATER ABSORPTION	7%
TILE LINEAR DIMENSIONS	+/- 0.3%
DIMENSION RECTANGULARITY	0.71%
MAX THICKNESS DEVIATION	+/- 0.4mm
STAIN RESISTANCE	Class 5
REACTION TO FIRE (CWT)	A1

THERMAL SHOCK	1	No evidence of damage
BOND STRENGTH	Resin - 6.4N/mm2 / [Dispersion - 2.4N/mm2
REQUIRES SEALING		Yes
INDOOR USE		Yes
OUTDOOR USE		No
THERMAL EXPANSION		N⁄A

For more information about this product please contact: info@alusid.co.uk +44 (0)1772 429275 alusid.co.uk





Luca Green



Luca Blue

Luca

Luca is our first range created with our own glaze made from almost 100% recycled materials. Making Luca the most recycled product we make and potentially one of the most recycled tiles on the market at 99% recycled. It's produced using a unique two stage glazing process with the second application made by hand to ensure that no two tiles are alike. Luca is hand made in the UK.

Colours



Gloss Varied Glaze



PINK



BLUE Gloss Varied Glaze Gloss Varied Glaze



YELLOW Gloss Varied Glaze

Size

GREEN

200 X 50 MM

THICKNESS OPTIONS

8mm

Specifications

CLASSIFICATION	BIII
WATER ABSORPTION	7%
TILE LINEAR DIMENSIONS	+/- 0.3%
DIMENSION RECTANGULARITY	0.71%
MAX THICKNESS DEVIATION	+/- 0.4mm
STAIN RESISTANCE	Class 5
REACTION TO FIRE (CWT)	A1

THERMAL SHOCK	No evidence of damage
BOND STRENGTH	Resin - 6.4N/mm2 / Dispersion - 2.4N/mm2
REQUIRES SEALING	Yes
INDOOR USE	Yes
OUTDOOR USE	No
THERMAL EXPANSION	N⁄A

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