

MEDUSA

THE ART OF LUXURY RESIN TILES

Metalis Tiles Technical Data Sheet

Product Description

12 individual tiles that incorporate metallic shingle, metallic petals and metallic pigments to create a visually vibrant collection which contradicts reality.

Available Sizes

Product Name	Tile sizes (width x length)											Skirting **	Slip resistant finish		
	200 x 600mm	300 x 600mm	600 x 600mm	200 x 900mm	300 x 900mm	600 x 900mm	250 x 500mm	500 x 500mm	500mm x 1m	800 x 800mm	Custom cut size*				
Bronze Age	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Athens	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Autumn Dream	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
Pretty Penny	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
Fallen Angel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Goddess	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Egyptian Sun	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
Gold Coast	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
Excalibur	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rain Dance	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hazy Shade of Winter	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
Milky Way	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●

*Size limitations apply

** Skirting tile only available in 100mm (H) x 600mm (W) dimensions

Over 75% of our products include recycled materials

medusatiles.com

Luxury resin tiles invented by us

From relaxing to exhilarating, a Medusa product represents an intensely personal journey. It represents the skills, passion and pride of our people. We wanted to make products that had transformative power and design, to elevate experiences, engage and inspire.



Our brand stands for British invention, innovation and design

Wall Tiles - Typical Physical Properties

Finish	Metalis Wall Tiles
Slip resistance DIN 51130	N/A
Pendulum test value TRRL Slider 96	N/A
Compressive strength	34 N/mm ²
Tensile strength	11 MPa
Hardness	38 Shore D
Flexural strength	5 N/mm ²
Nominal weight per m ²	19kg
Nominal thickness	7mm
Service temperature	0-55°C
Chemical resistance	Good
Wear characteristics	Medium duty
Impact resistance	Limited
Dimensions	Non-rectified

Floor Tiles - Typical Physical Properties

Finish	Metalis Floor Tiles (standard finish)	Metalis Floor Tiles (slip resistant finish)
Slip resistance DIN 51130	R9	R10
Pendulum test value TRRL Slider 96	Moderate potential for slip	Low potential for slip ≥ 40
Compressive strength	34 N/mm ²	34 N/mm ²
Tensile strength	11 MPa	11 MPa
Hardness	38 Shore D	38 Shore D
Flexural strength	5 N/mm ²	5 N/mm ²
Nominal weight per m ²	25kg	25kg
Nominal thickness	9mm	9mm
Service temperature	0-55°C	0-55°C
Chemical resistance	Good	Good
Wear characteristics	Medium duty	Medium duty
Impact resistance	Limited	Limited
Dimensions	Non-rectified	Non-rectified

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Substrate

The nature of the background should always be a primary consideration, since it determines the type of adhesive to be used and whether any intermediate substrate or other preparatory treatment is required before tiling can commence.

Factors relating to the background to be considered are numerous and include the type of material, condition, straightness, porosity, presence of soluble salts etc. Early consideration should also be given to the provision of movement joints in order to allow stresses that result from movement of the background, e.g. drying shrinkage, thermal changes and moisture changes to be dissipated.

Please refer to the Substrate and General Surface Requirements technical data sheet for further information.

Wall Tiles - Adhesive Selection

Two component epoxy adhesives with no vertical slip are recommended. However, technical advice from the adhesive manufacturer is advised. Information relating to the resin tiles, compatibility with the substrate, the resin tile base and any other information should be discussed with the adhesive manufacturer. Prime if recommended. Mix the adhesive in accordance with the manufacturer's instructions.

Floor Tiles - Adhesive Selection

Reaction resin adhesives or quick-drying low alkalinity cement-based adhesives are recommended. However, technical advice from the adhesive manufacturer is advised. Information relating to the resin tiles, compatibility with the sub floor, the resin tile base and any other information should be discussed with the adhesive manufacturer. Prime if recommended. Mix the adhesive in accordance with the manufacturer's instructions.

PPE

Ensure that the correct PPE is worn at all times.

Fixing

The tile adhesive should be applied using a suitable notched trowel to the wall or floor and additional back buttering of the tile with the tile adhesive to ensure a full solid bed and adequate adhesive coverage.

When fixing resin tiles to both walls and floors, solid bed fixing is essential to:

1. Ensure full contact between the tile adhesive and the tiles
2. Eliminate voids beneath the tiles

It is recommended to use a good-quality tile levelling system (when possible) to minimise the possibility of lippage.



Metalis Tiles Diamond Cutting

We recommend using a diamond blade with continuous rim for wet cutting. It should be a super-professional diamond blade or above, to almost eliminate chipping on the surface, to avoid breakages and cracks during the delicate tile cutting phase.

Note: Cutting must be completed through the finished surface of the tile, i.e. cut with the finished surface facing upwards.

When using a tile diamond blade, the daily operation of reviving the saw with an abrasive stone is essential. We recommend you revive the blade several times every day if you use it continuously, in order to avoid its damage.

Remember: abundant use of water is essential when using diamond blades to cut tiles of any thickness.

Recommended Blade: Montolit CPF PERFETTO Diamond Blade

Final Appearance

Before bedding material sets, adjust tiles and joints to give true, regular appearance when viewed under final lighting conditions.

Surplus bedding material: Clean from joints and face of tiles without disturbing tiles.

Cut tiles: Minimise number, maximise size and position unobtrusively.

Skirtings

Sit-on tile skirtings 100mm (High) x 600mm (Wide): Available only in Bronze Age, Athens, Fallen Angel, Goddess, Excalibur and Rain Dance.

Movement Joints

The need for inclusion of movement control joints within any tiled installation is explained in BS 5385. Under normal dry internal conditions, we recommend that areas should be reduced to bay sizes not exceeding 36m².

In general: Extend through tiles and bedding to base/background.

Rigid joint sections: Set to exact finished level of floor.

Structural joints: Centre movement joint over joints in base/background.

Exclusions: Note Thermal Movement recommendations below.

Allow for the perimeter joints and joints against objects from the base.



Grouting

The selection of grout must be based on the intended use. Consult with the grout manufacturer. As a minimum standard use a suitable impervious reaction resin grout to protect from potential water ingress, although the use of impervious grouts and adhesives is no substitute for a tanked installation (if required).

The resin tiles must be protected before grouting, by covering them with masking tape for example, to prevent damage caused by sweeping and scraping motions and to ensure the surface of the tile remains grout free.

We recommend using a grout gun to apply the tile grout. Fill the joints completely, and tool to profile forcing the grout into the grout lines, making sure there are no air pockets left in the grout lines. Ensure the grout has filled the edge voids and is supporting the edge/corners of the tile. Clean off the surface and leave free from blemishes.

Sequence: Grout when bed/adhesive has set sufficiently to prevent disturbance of tiles.

Joints: Free from dust and debris.

Grout Widths

The thickness of your grout joint should be based on several factors, including tile size, amount of variation and your desired style or aesthetic. We've put together some considerations and size options to help you choose the right grout size for your project.

Things to Consider When Choosing a Grout Size



The amount of variation in size from tile to tile:

Because we make everything by hand, there is a variation in size and thickness from tile to tile. With handmade tiles we always recommend larger grout joints to account for these irregularities.



The style you are hoping to achieve:

The size of the grout joint can dramatically change the way your overall tile installation looks; this is where personal preference comes into play. Some may prefer very minimal grout lines, while others like their grout lines to stand out and become part of the design.



Colour:

Contrasting grout and tile colours, similar-coloured grout and tile colours and grouts available with glitter can create endless individual designs.



Grout Size Options

We recommend a 5mm or above grout size for our resin tiles. This thickness leaves room for the natural variation in size, and the perfectly imperfect profile of our handmade tiles.

Planning is key. Prior to installation, pre-test all tiles by laying them out in the required tile design for the area. Swap and change individual tiles until the best-fitting tiles are selected. These can then be laid in the same sequence during installation. This will also help you to visualise the finished design from various points. Time spent at this stage will be invaluable towards the success of your installation. Do not fix tiles if you cannot achieve the above for any reason.

It is possible to achieve a tighter grout joint; however, it depends on whether the natural irregularity in tile size and shape allows for a tighter fit. If the grout line is too tight, the tile could chip at stress points while the grout dries. Grout has a purpose to fill in voids, make things straight and relieve stress.

Sealing

The sealant should be solvent free and suitable for use with resin tiles. Consult with the sealant manufacturer. All cut edges of tiles once fixed and finished, i.e. a corner, must be sealed to overlap the cut edge and provide an impermeable seal.

Thermal Movement

It is important to seek technical advice, based on resin tiles from the adhesive manufacturer, as the heat change affects the different materials employed within the tiling assembly.

Where the resin tile is deemed to be suitable for floors subjected to direct heat or heat from an environmental source, we recommend the frequency of movement joints to be increased.

We recommend the floor area should be divided into bays not exceeding 25m² with an edge length not greater than 8m to allow for the anticipated increase in thermal expansion of the resin tiles with UFH.

Storage

Store materials internally, in the original packaging and above 5°C. Keep horizontal and dry/free of moisture.

If you would like further information or guidance please feel free to contact us – we're here to help.

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NOTE: "Medusa Resin Tiles Ltd" ("Medusa") endeavours to ensure that advice and information given in our Product Data Sheets, General Information, Guides etc (all known as Product Literature) is accurate and correct. The information, and, in particular, the recommendations relating to the application and end-use of Medusa products, are given in good faith based on Medusa's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Medusa's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The prospective customer, user or specifier of the product must test the product's suitability for the intended application and purpose. Medusa's policy is one of continuous research and development and we reserve the right to change the properties of our products, update our products and information at any time without prior notice. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

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