

FLOORING SYSTEMS

# SCREED REPLACEMENT TILE

THE NATURAL DRY SCREED



**BUILDING  
INNOVATIONS**



**LEIPFINGER  
BADER**

# THERE ARE MANY GOOD REASONS FOR CERAMIC DRY SCREED

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## 01

### DRY INSTEAD OF WET.

An end to dampness on the building site. In many buildings, moisture problems and complaints arise due to the installation of a wet screed - this has now come to an end thanks to the Screed Replacement Tile. The ceramic dry screed does not introduce moisture into the building and structural damage is avoided!



## 02

### TIME SAVING FOR YOUR CONSTRUCTION PROGRAMME.

No more long drying-out times of 4-6 weeks! The floor can be walked on after 24 hours – and load can be applied after 48 hours, without cracking or expansion joints.

## 03

### GREATER CEILING HEIGHTS AND A JOY TO INSTALL.

The Screed Replacement Tile system is only 18 mm thick – one third the thickness of a traditional screed. The Screed Replacement Tile is ideally suited for renovations. The ease and speed with which the Screed Replacement Tile can be installed is sure to impress.



## 04

### ECONOMIC EFFICIENCY.

High quality and unrivalled durability at an attractive price-point: all of the benefits of the Screed Replacement Tile make for a compelling economic argument. Whether it's the ease and speed of installation, the fast drying time or its ability to replace a screed and a finished floor in one product; you will save both time and money when you choose the Screed Replacement Tile for your project.

# THE PERFECT PARTNERSHIP: SCREED REPLACEMENT TILES AND UNDERFLOOR HEATING

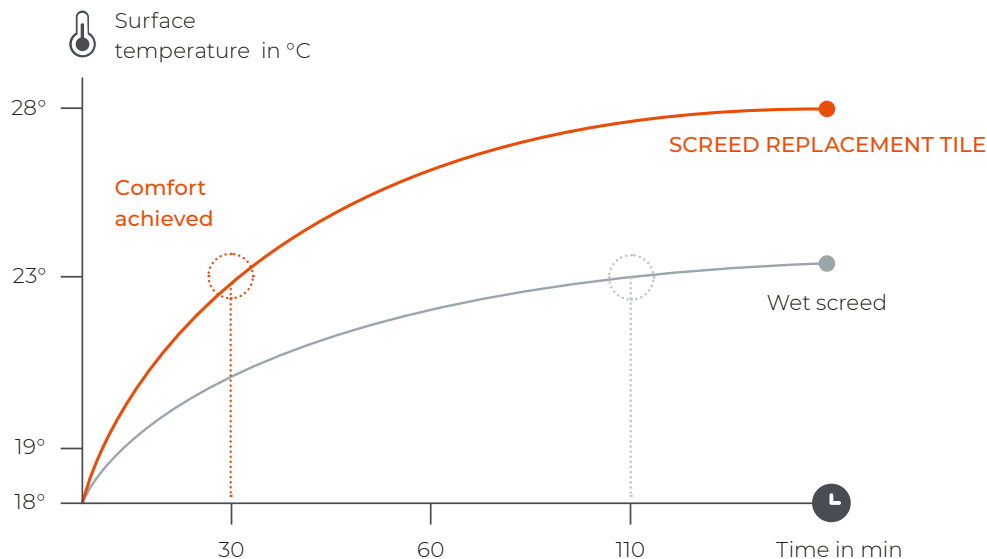
## 05

### HIGH THERMAL CONDUCTIVITY, HEAT RETENTION AND FLEXIBILITY.

As a result of the Tiles' high-quality manufacture incorporating more than 30% fireclay content, the Screed Replacement Tile boasts outstanding thermal conductivity and exceptional heat retention. The Screed Replacement Tile system offers you flexibility of design too – it is compatible with all other floor finish choices such as solid wood planks, parquet, large-format tiles up to 1.20 x 1.20 m, laminate, linoleum or carpet.

### EXCELLENT HEAT TRANSFER AND STORAGE.

The excellent rate of heat transfer ensures that the underfloor heating system can be very accurately controlled. The Screed Replacement Tile is exceptionally quick to warm up as a product of both its excellent thermal conductivity of 1.30 W/mK and its comparatively shallow height. By comparison, conventional screeds only achieve thermal conductivity values between 0.35-0.38 W/mK and are potentially four times thicker. This saves you heating time and energy costs. Due to the high quality of the product, with more than 30 % fireclay content, the screed tile scores with long heat storage and thus promotes your well-being.





# HEAT PUMP AND SCREED REPLACEMENT TILE

A heat pump – at its simplest a refrigerator running in reverse - uses the heat stored in the ground or air for heating and hot water production. Heating energy costs are reduced because up to 75% of the heating energy transferred to the building is derived from free and readily available heat sources. The high thermal conductivity and low mass of Screed Tiles in combination with a heat pump represents the ideal synthesis between cost-saving and environmentally conscious heating.

# 06

## BOTH NATURAL AND ROBUST.

The natural and environmentally friendly Screed Replacement Tile is made of the four elements: fire, water, earth and air. It is fired at 1200 degrees. High compressive and flexural strength ensure extraordinary durability. The Screed Replacement Tile can bear impressive point loads and imposed loads. It does not absorb moisture and so is suitable for installation in wet areas.



# 07

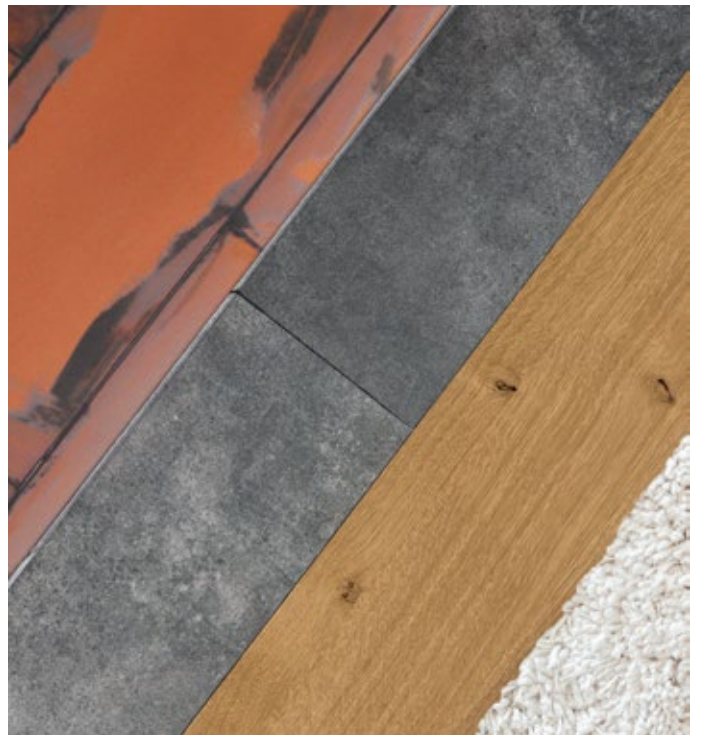
## WATER RESISTANT.

The TONALITY Screed Replacement Tile is a waterproof dry screed. It will not dissolve, swell or shrink due to moisture ingress. The ceramic dry screed does not introduce moisture into the building and prevents structural damage.

# 08

## SUITABLE FOR ANY FLOOR COVERING.

As a load distribution layer, the Screed Replacement Tile creates a substructure that can be used for all types of flooring (tiles up to 1.20 x 1.20 metres, natural stone finishes, all types of parquet, solid wood planks, laminates, PVC, carpet, linoleum and terrazzo floors).



# 09

## DESIGN SCREED TILES AS A FINISHED FLOOR.

Our Design Screed Tiles are the alternative to natural stone or tiles. Specially refined, it fulfils all demands for high quality and comfort in your home. You benefit from all the unique advantages of the Screed Replacement Tile (compatibility with underfloor heating, increased room height, etc.) in addition to an aesthetically pleasing floor covering in one elegant product. The joint pattern can also be varied by using dark or light-coloured adhesive.

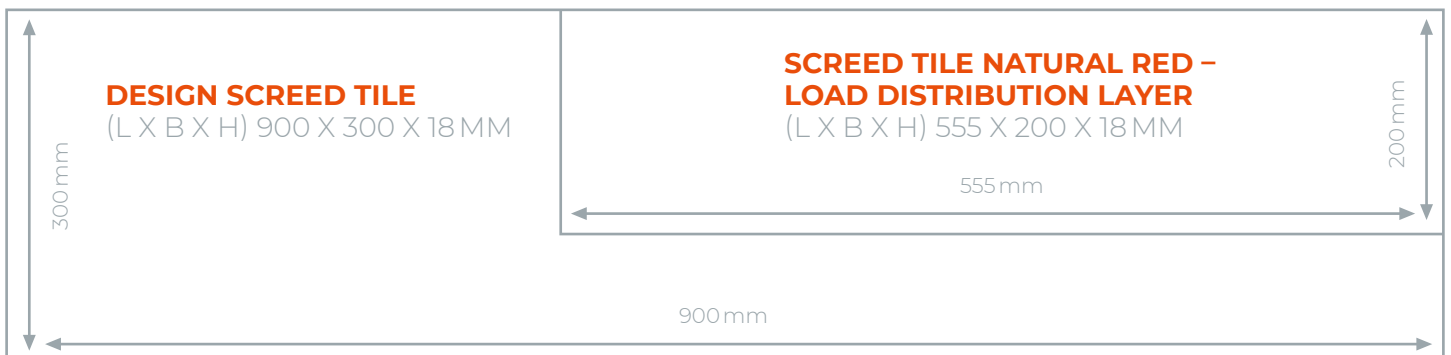


# 10

## EASIEST INSTALLATION.

The Screed Replacement Tile is quick and easy to install using only normal tiling tools. The Screed Replacement Tiles can be laid in temperatures as low as 5°C using TONALITY's special high strength adhesive.

## FORMATS



# DESIGN SCREED TILES – OUR SURFACE DESIGNS

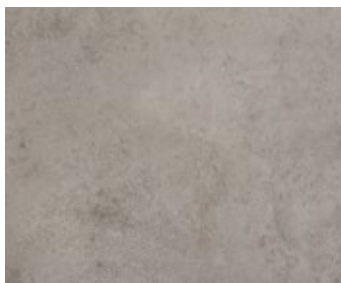
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**BACO**  
Marble

A classic white marble blends harmoniously with notes of anthracite grey to deliver an incomparable ambience that is simultaneously formal, yet warm and inviting.

With our **BACO** design, this timeless and classic elegance of marble is captured perfectly.



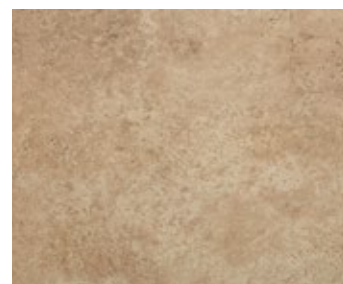
**CASSINI**  
Concrete

The concrete stone look brings a contemporary and modern touch to any room. Understated and immensely versatile, the concrete-effect tile affords you pared-down urban chic and a sleek neutral finish.

Our **CASSINI** surface looks at ease as part of any minimalist interior design.

With its diverse range of colours, travertine is the epitome of durability and warmth and represents a very popular choice for flooring in modern architecture. Thanks to its design, it can be used to create a wide range of interior styles.

With our **SAMIR** design, any room can be graced with a touch of Tuscan flair.



**SAMIR**  
Travertine





**HERON**  
oak



The classic and versatile aesthetic of a solid timber floor plank is perfect for adding value to living and dining areas. The striking organic texture perfectly mimics the three-dimensional look and feel of a wooden floor.

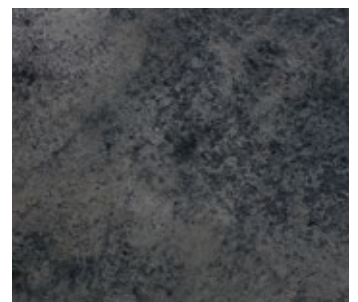
If you want to bring a piece of nature into your home, the **HERON** design is the perfect choice.



**BALDET**  
Solnhofen Limestone

The creamy and glossy shades of ochre yellow of the **BALDET** optic are a particular delight.

A late Jurassic limestone from Bavaria that was originally quarried for its super finely grained composition. The surface of this limestone is not only aesthetically pleasing, but also has a clear and unmistakable structure.







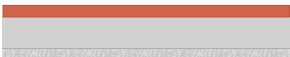
**BOBONE**  
Concrete anthracite



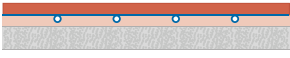
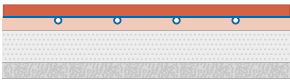
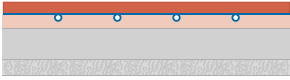
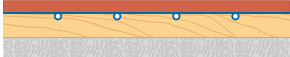
The dramatic contrast offered by the anthracite gives the concrete look a modern and striking aesthetic. The wide variation in the anthracite's distribution provides each room with its own distinct character.

With your **BOBONE** floor, each area takes on a distinguished and imitable finish as unique as your home.

# TECHNICAL DATA

	SCREED REPLACEMENT TILE	SCOPE FOR APPLICATION/CATEGORY
	Screed Replacement Tile Flat, load-bearing subfloor	4
	Screed Replacement Tile Softwood fibreboard 17/16 mm Levelling fill	2
	Screed Replacement Tile Softwood fibreboard 18 mm Levelling fill	3/B2
	Screed Replacement Tile Styrofoam EPS 035 DEO (200 kPa) Levelling fill	EPS 035 DEO (200 kPa) (max. 2 layers) up to 40 mm (1 layer) up to 100 mm (max. 2 layers)
	Screed Replacement Tile Styrodur XPS (500 kPa)/(max. 3 layers) Levelling fill	XPS 500 up to 60 mm (1 layer) up to 100 mm up to 160 mm

## CONSTRUCTIONS WITH INTEGRATED UNDERFLOOR HEATING SYSTEMS

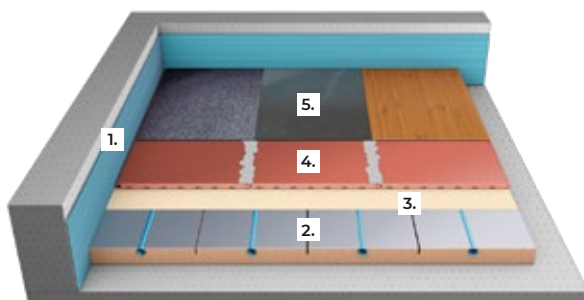
	Screed Replacement Tile Tested dry underfloor heating system Levelling fill	3/B2 Without fill 4
	Screed Replacement Tile Tested dry-installed underfloor heating system Syropor EPS 035 DEO (200 kPa) (max. 2 layers construction) Levelling fill	up to 100 mm (max. 2 layers) 2
	Screed Replacement Tile Tested dry underfloor heating system Syropor EPS 035 DEO (500 kPa) (max. 3 layers construction) Levelling fill	XPS 500 + tested dry-installed underfloor heating system up to 60 mm (1 layer) up to 160 mm (max. 2 layers)
	Screed Replacement Tile Tested dry underfloor heating system Levelling fill	1

## DATA SHEET SCREED REPLACEMENT TILE UNGLAZED

Line	USE OR SCOPE OF APPLICATION Examples based on DIN EN 1991-1-1/NA:2010-12	DISTRIBUTED LOAD IN kN/m <sup>2</sup>	POINT LOAD IN kN
0	Accessible attic, not suitable for living purposes (accessible attic space up to 1.80 m clear height)	1	1
1	Rooms and corridors in residential buildings, bedrooms in hospitals, hotel rooms including associated kitchens and bathrooms	2	1
2	Corridors in office buildings, office areas, medical facilities without heavy equipment, wardrooms, recreation rooms including corridors, areas of sales rooms up to a footprint of 50 m <sup>2</sup> in residential, office and comparable buildings	2	2
3	Office spaces with higher load requirements	3	2
4	Corridors and kitchens in hospitals, hotels, old people's homes, corridors in boarding schools, etc., treatment rooms in hospitals, including operating theatres without heavy equipment; basement rooms in residential buildings	3	3
5	Areas with tables; e.g. day nurseries, crèches, school rooms, cafés, restaurants, dining rooms, reading rooms, reception rooms, staff rooms (assignment of floor loads deviating from DIN EN 1991-1-1/NA:2010-12)	4	3
6	Areas with fixed seating; e.g. areas in churches, theatres or cinemas, congress halls, lecture halls, waiting rooms	4	4
7	Office areas, work areas and corridors with heavy equipment, publically accessible areas; e.g. museum areas, exhibition areas, entrance areas in public buildings, hotels as well as corridors belonging to lines 5 + 6; areas for large gatherings of people; e.g. in buildings such as concert halls, entrance areas,	5	4
7.1	areas in retail shops and department stores; areas in factories and workshops with light operations (stationary loads).	5	5

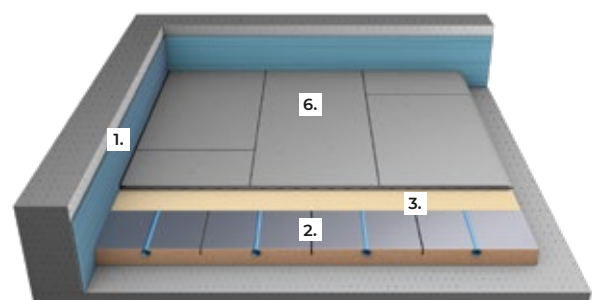
## SUBSTRUCTURES

### STRUCTURE OF LOAD DISTRIBUTION LAYER



1. Perimeter insulation strip
2. Underfloor heating panels made of soft wood fibre, 30 mm thick
3. Separating layer, e.g. building paper

### STRUCTURE OF DESIGN SCREED TILES



4. TONALITY Screed Replacement Tiles as a load distribution layer to accommodate floor finishes
5. Final floor finishes (tiles, carpet, parquet, etc.)
6. TONALITY Design Screed Tiles as an exposed layer

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