

PlayTiles

Rubber Playground Tiles

Technical Specification & Installation Guide

Playgrounds and play areas are vital to our communities to help keep our children fit, active and stimulated. Featuring old favourites such as slides, swings and roundabouts as well as new innovative play equipment, our children have never had it better.

Rubber Play Tiles are an essential part of any play area due to the high risk of slips, trips and falls as the children explore the apparatus. The potential height for falls can be as much as 2 metres (6'6") which is significant enough to cause serious injury to anyone falling that distance.

PlayTiles can help to negate some of this exposure to danger and have a **critical fall height** rating of 1 metre, making them ideal for use under smaller pieces of apparatus such as roundabouts and swings.

Made from recycled, vibrantly coloured SBR rubber, **PlayTiles** will make any play area a much more safe environment for children to have fun while also creating a vividly coloured scene for them to enjoy.

Play areas are not the only potential application for **PlayTiles**, as they are also commonly used in **gyms** for free-weight areas, surrounding domestic **swimming pools**, **industrial** settings to provide a softer, non-slip standing surface and in an **equestrian** environment, most commonly for stable walls and doors.

Simple to install, these **PlayTiles** can be laid with little DIY knowledge needed.

**UNDER TILE CHANNELS FOR
EFFICIENT WATER DRAINAGE**

**AVAILABLE IN
THREE VIBRANT COLOURS**

1 METRE CRITICAL FALL HEIGHT

EASY & CLEAN INSTALLATION

**PLAYTILES ARE A RECYCLED SBR
RUBBER TILE WHICH ARE IDEAL FOR
USE AROUND PLAY EQUIPMENT.**

**WHEN INSTALLED CORRECTLY,
THESE TILES CAN HELP TO REDUCE
THE RISK OF SERIOUS HUMAN
INJURY IN THE EVENT OF AN
ACCIDENT.**

CRITICAL FALL HEIGHT RATING - 1M



What is a Critical Fall Height?

Free Fall Height is a measurement of distance between a play surface and the protective surface. Critical Fall Height relates to the impact attenuation of the surface material and is "the maximum height from which a life threatening head injury would not be expected to occur."

Therefore, the fall height of the equipment should not exceed the critical height of the surface in the design of playgrounds and the type and depth of surfacing used under the equipment.

Free Fall Height is measured from the point at which the feet can stand and not the overall top of the playground equipment. Many pieces of equipment have tops or coverings so the measurement is not taken from that point but where the child would be standing at the highest point during normal play.

The fall height of see-saws is the maximum height attainable by the seat and the fall height of spring rockers is the height of the seat.

Useful Resources

EUROPEAN STANDARDS
EN 1176 & EN 1177

BS 5696 & BS 7188

GERMAN STANDARD
DIN 7926



**PLAYGROUNDS &
PLAY AREAS**



GYMNASIUMS



**SWIMMING POOLS &
WET AREAS**



EQUESTRIAN AREAS



**COMMERCIAL &
INDUSTRIAL FLOORING**

GCL Products Limited
Unit 1-2 Carrwood Road
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Product Guide

PLAYTILES CAN BE INSTALLED ON MANY DIFFERENT SURFACES INCLUDING CONCRETE, ASPHALT, HARDCORE & SOIL (INTERLOCKING TILES ONLY ON HARDCORE & SOIL)

PROVIDES CRITICAL FALL PROTECTION FOR UP TO 1 METRE, REDUCING RISK OF SERIOUS INJURY RESULTING FROM AN ACCIDENT

CAN BE CUT TO SHAPE AND TO FIT AROUND AWKWARD ANGLES OR IMMOVABLE PIECES OF PLAY EQUIPMENT

INTERLOCKING PLAYTILES COME WITH PEGS WHICH CONNECT EACH TILE TO SURROUNDING TILES FOR ADDED STABILITY

NON-INTERLOCKING PLAYTILES CAN BE SIMPLY BONDED TO THE SURFACE WITH PU BONDING.

CLEANER, NON-MIGRATING ALTERNATIVE TO BARK CHIPPINGS OR RUBBER MULCH

Technical Data

OPERATIVE TEMPERATURE	-15°C TO +50°C
MATERIAL	RECYCLED SBR RUBBER
MANUFACTURED IN	UNITED KINGDOM
COLOURS	RED, GREEN & BLACK



TOP



BOTTOM



SIDE PROFILE



TOP



BOTTOM



SIDE PROFILE

Our business mission is to become the UK's leading supplier of groundwork, civil and landscaping products. Over the last few years, our company has grown to become one of the UK's most reputable suppliers to these demanding specialist markets.

The extensive range of products we stock is tailored to cater for the needs of our clients, which we complement with unrivalled customer service and friendly, knowledgeable staff. We strive to build long-term working relationships with each of our customers to provide the best value for money without compromising on quality or service.

PlayTiles Installation Guide - Interlocking

PlayTiles can be fixed to a number of different surfaces but **ONLY INTERLOCKING TILES** can be laid on soil and MoT type hardcore.

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CONCRETE BASE INSTALLATION

1. Ensure that the concrete base is sealed, fully cured and free of cracks or gaps. The existing base should ideally be gently sloped to facilitate water runoff.
2. Install edging around the perimeter of where the tiles will be laid in order to prevent movement at the outer edges. This could be concrete, plastic, timber or rubber. Alternatively, polyurethane adhesive can be used to fix the underside of the outer rows to the base.
3. Starting in one corner, lay the tiles one row at a time, brick-bond style to provide more flexibility in the joints. Using the dowels supplied, connect each panel ensuring the panels are butted against each other tightly with no gaps visible.
4. If desired, polyurethane adhesive can be used on the underside of all tiles to provide added stability to the installation.

HARDCORE MoT TYPE 1 BASE INSTALLATION

1. Ensure that the MoT type 1 hardcore is level and well compacted using a vibration plate and that, if necessary a membrane has been laid beneath the MoT to ensure the suppression of weeds.
2. Install edging around the perimeter of where the tiles will be laid in order to prevent movement at the outer edges. This could be concrete, plastic, timber or rubber.
3. Starting in one corner, lay the tiles one row at a time, brick-bond style to provide more flexibility in the joints. Using the dowels supplied, connect each panel ensuring the panels are butted against each other tightly with no gaps visible.
4. If desired, polyurethane adhesive can be used in the joint of each tile to ensure total integrity and to ensure that the tiles are fixed sufficiently to prevent migration of materials.

TARMAC BASE INSTALLATION

1. Ensure that the asphalt surface is hard, flat, dry and free of all impurities, including oil, fat or water. The tarmac must be sealed and new tarmac must be left 30 days to fully cure. The base should be gently sloped to aid water runoff.
2. Follow the instruction steps 2-4 as per **Concrete Base** installation.

SOIL BASE INSTALLATION

1. As soil can be soft, ensure that the base is very well compacted and that any areas that may potentially become soft or subject to movement are fortified with MOT type 1 hardcore and recompacted.
2. Follow the instruction steps 2-4 as per **MOT Type 1 Base** installation.

Brick-Bonding

By laying the tiles in an offset pattern, tiles hold together much more effectively and also assists with any flexing under weight loads



Fig shows tiles laid brick-bond with timber edge restraint

Edge Bonding

For installations which do not utilise an edging restraint, ensure that the outer tiles on all edges are bonded to the surface using a 3mm bead of PU adhesive

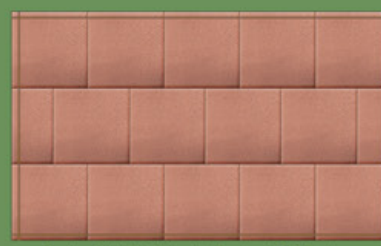


Fig shows tiles laid brick-bond with location of PU adhesive on edges for installations without an edge restraint

Maintenance Guide

The surface of rubber tiles should be cleaned with clean water or by water with detergent. In order to increase surface durability it is necessary to keep the surface of rubber tiles clean and remove solid impurities i.e. small stones, leaves.

Certain types of footwear may physically damage the surface of the tiles, for example spiked running shoes, football or rugby boots or stiletto heels.

It is not recommended that vehicles be used on PlayTiles, either for standing or driving. Excessive weight loads may have a detrimental effect on the tile integrity.

Do not clean with abrasive cleaners, detergents, thinners or other chemical substances as this may cause damage to the rubber.

PlayTiles Installation Guide - Non-Interlocking

PlayTiles can be fixed to a number of different surfaces but **ONLY INTERLOCKING TILES** can be laid on soil and MoT type hardcore.

CONCRETE BASE INSTALLATION

1. Ensure that the concrete base is sealed, fully cured and free of cracks or gaps. The existing base should ideally be gently sloped to facilitate water runoff.
2. Install edging around the perimeter of where the tiles will be laid in order to prevent movement at the outer edges. This could be concrete, plastic, timber or rubber.
3. Using an appropriate polyurethane adhesive, apply 4 rows of adhesive to the underside of the tile in a 3mm bead.
4. Tiles should be installed and fixed with a 3-4mm joint between each tile which can be filled with sand or other fine-grade, porous medium. This is to allow for expansion of the tile over time.

Laying Pattern

Tiles should be laid in straight rows and columns ensuring a 3-4mm joint in between each tile to allow for expansion.



Fig shows tiles laid in a grid pattern with timber edge restraint

TARMAC BASE INSTALLATION

1. Ensure that the tarmac base is sealed, fully cured and free of cracks or gaps. The existing base should ideally be gently sloped to facilitate water runoff. The surface should be levelled as much as possible and should be structurally sound with no cracking or crumbling.
2. Install edging around the perimeter of where the tiles will be laid in order to prevent movement at the outer edges. This could be concrete, plastic, timber or rubber.
3. Using an appropriate polyurethane adhesive, apply 4 rows of adhesive to the underside of the tile in a 3mm bead.
4. Tiles should be installed and fixed with a 3-4mm joint between each tile which can be filled with sand or other fine-grade, porous medium. This is to allow for expansion of the tile over time.

Adhesive

An appropriate polyurethane (PU) adhesive should be applied to the underside of each tile. Four rows of 3mm bead should be applied to each tile.

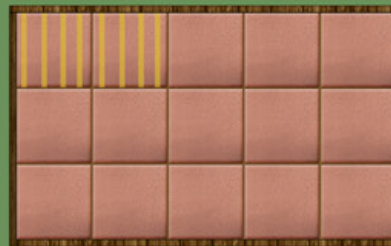


Fig shows tiles laid with location of PU adhesive on underside

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HARDCORE MOT TYPE 1 BASE INSTALLATION

Non-interlocking PlayTiles are not recommended for installation on MOT type 1 bases. We suggest interlocking PlayTiles only for this application.

SOIL BASE INSTALLATION

Non-interlocking PlayTiles are not recommended for installation on MOT type 1 bases. We suggest interlocking PlayTiles only for this application.

Maintainance Guide

The surface of rubber tiles should be cleaned with clean water or by water with detergent. In order to increase surface durability it is necessary to keep the surface of rubber tiles clean and remove solid impurities i.e. small stones, leaves.

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