

LAYING INSTRUCTION

BERGO ULTIMATE™ AND ULTIMATE PLUS™



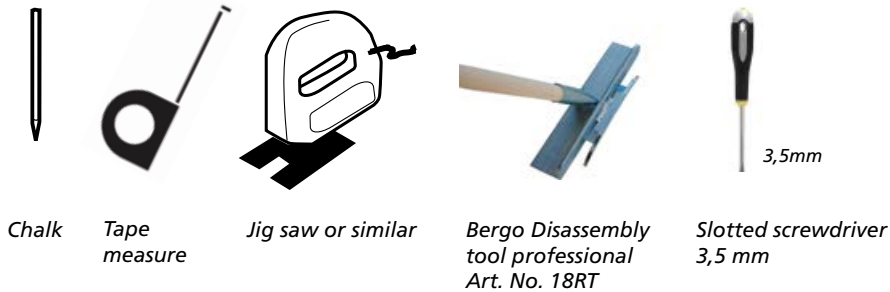
bergo
FLOORING



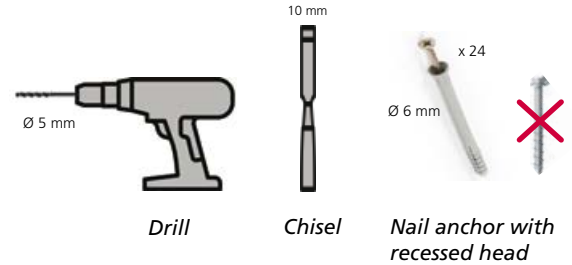
It is important that you follow this instruction for a proper functioning of your court.

1. Read the entire instruction carefully before installing.
2. It is important to install on correct subsurface according to our recommendations (page 2).
3. It is important that you cut the tiles against fixed objects (page 6).
4. Take pictures for future records:
 - a. Before the installation starts
 - b. During installation
 - c. After installation.

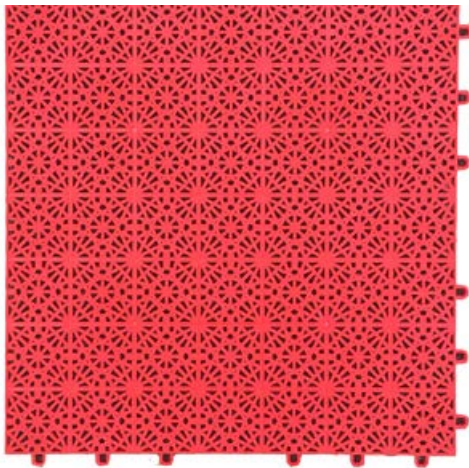
For installation you might need:



If anchoring the floor, you will also need:



Available Items



Bergo Ultimate™, art. nr. 113_95
Bergo Ultimate PLUS™, art. nr. 113_96
375 x 375 x 12.4 mm (14,76 x 14,76 x 0,05 in)



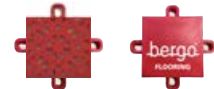
Line Strip, 375 x 50 mm (14,76 x 1.96 in)
Art.No. 80__
Line Strip are used for making lines in different colours or/and making the court in the preferred size.



Edge Strip, 375 x 60 mm (14,76 x 2.36 in)
Art. No. 90__
By using Bergo Edge strips and Corner strips you will give the floor an attractive and safe finish.



Corner Strip, 60 x 60 mm (2,36 x 2,36 in)
Art. No. 91__



- Line Cross-pice
50 x 50 mm (1.96 x 1.96 in)
Art. No. 97__
Where two rows of Line strips intersect.

- Logo Line Cross-pice
50 x 50 mm (1.96 x 1.96 in)
Art. No. 98RELOGO
In every corner of the outer lining.



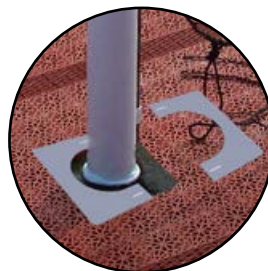
Line Strip Edge piece
60 x 50 mm (2,36 x 1,96 in)
Art. No. 92__
Is used together with the Edge strips as practical and attractive ending of a row with Line strips.



BERGO Re-bounce underlay 5 mm
Must be used as underlayment to achieve FIBA-standard under Bergo Ultimate PLUS™



Bergo Geotextile underlay
Recommended on stone powder.
Art. No. BK2000



Bergo Metal Cover Profile
Art. No.
900304 Large (240x150x1,25 mm = 9.44x 5.9x4.92 in)
900303 Small (230x135x1,25 mm = 9.05x 5.31x4.92 in)



Multifix
Cleaning agent
for Bergo floors



Disassembly tool
Art. No. 18RTKIT

Preliminary work/Surface - The better the subsurface, the better the final result

As a surface, we primarily recommend in the first instance concrete or asphalt. With the correct surfacing work, even stone powder surface can be used, as long as it is sufficiently firm and even. See description below.

Posts (for e.g. basketball hoops, goals, etc.)

The foundation should be cast when the ground work is done, and before the playing area is installed.

Subsurface requirements

For the best performance and consistent ball bounce, the subsurface must be even, stable, and well prepared.

- The surface must be smooth, firm, and free from cracks, holes, or bumps.
- The surface level should not deviate more than 5 mm within 3 m, in accordance with guidelines from FIBA for outdoor courts.
- Avoid low spots where water can collect.
- The surface should have a slight slope for drainage (max. approx. 0.5%).
- High spots should be ground down, and low areas should be filled and leveled using a suitable material.

It is important that the tiles have full and even contact with the subsurface at all times to avoid "dead spots" and ensure consistent ball bounce.



Must be levelled off!



Example of laying/smoothing

Stone Powder subsurface



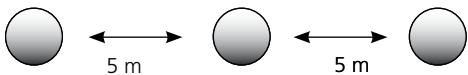
→ **BERGOTILES**

→ Bergo Geotextile

→ 3 cm Stone powder 0-4 mm vibrator or by water compacted

→ 10 - 15 cm Macadam 0 - 32 mm

→ 15 cm Macadam 32-63 mm

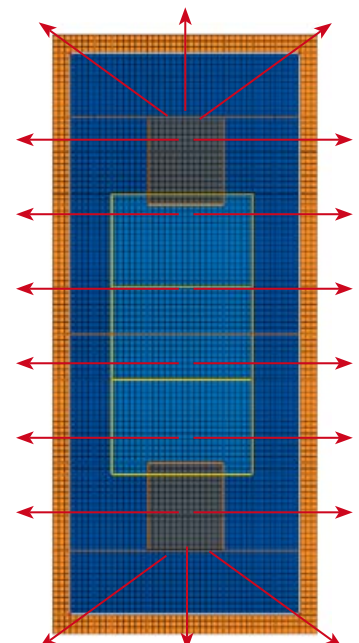


→ Drainage Pipe Ø160 mm

Runoff

If appropriate check that water runoff functions properly. A slope of approx. 0.5% starting from the center of the track is recommended. Drains should be preferable positioned outside the playing area of the field.

Where sunken drains are located under the playing surface, the level should be smoothed off with a draining structure, e.g. extra Bergo tiles. Otherwise there is a risk that tiles will become loose or break, with a result of losing the ball bounce.



Preparations

Clean the surface – tidy and sweep the surface clean.

Before installation, the flooring should be allowed to adapt to the surrounding temperature for about 24 hours.

We recommend carrying out the installation at temperatures over 10°C. At lower temperatures the flooring becomes more brittle and has to be handled with care.

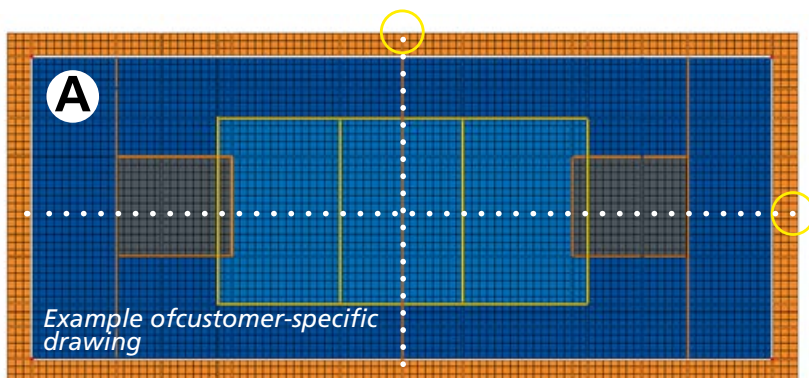
Place pallets with the flooring for installation just outside the playing area to avoid unnecessary movement.



Look carefully at your customer-specific drawing!

Installation

1. Measure the centre line on both the long and the short side in order to find the midline of the playing area (images A and B). Mark with chalk or line.

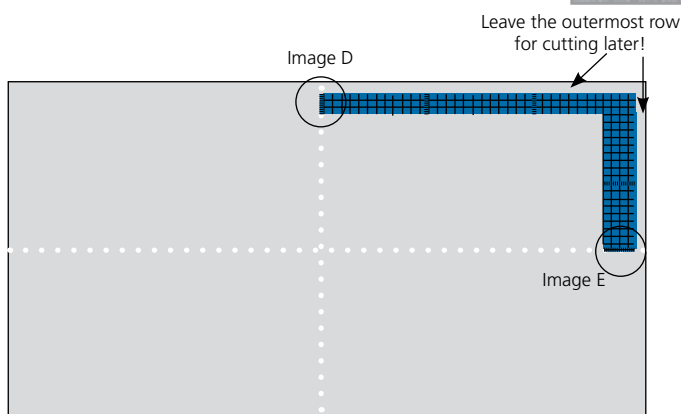


2. Lay out at least 3-4 rows of tiles, plus the Line strips indicated on your specific drawing so that you reach the mid-line on both the long and short sides (image C).



Installation cont.

3. Once you have laid out the tiles so that they form an "L" shape, adjust them in the middle by pushing the tiles into exactly right position (images D-H).

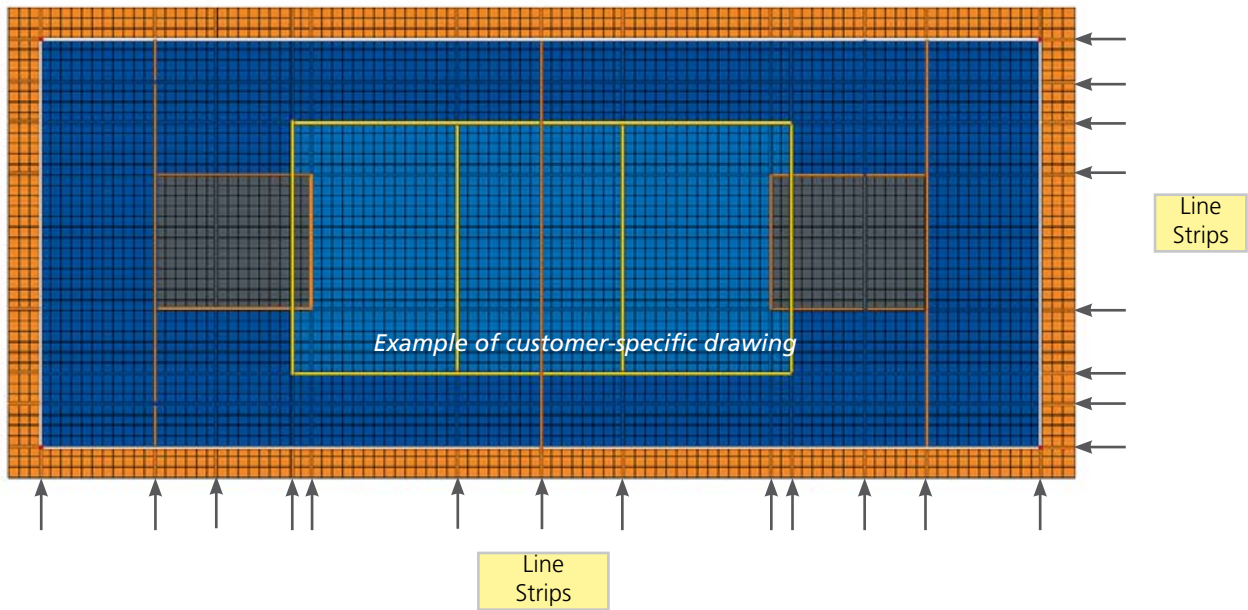


4. For installation inside a rink, leave the outermost row of tiles for cutting later and make sure that distance from the rink to the installed tiles is the same all along. Please note that the distance between tiles and rink at opposite sides need not be the same (images G and H).

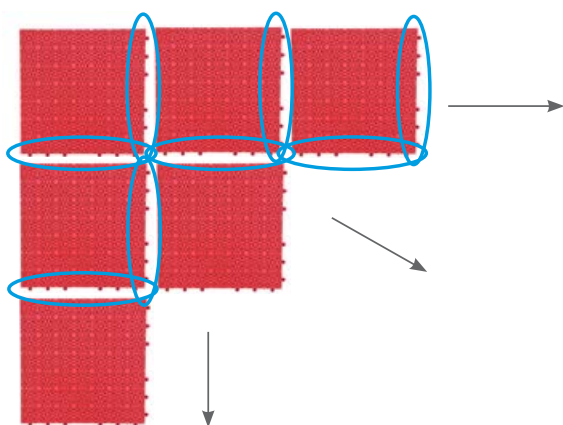


Installation cont.

5. Once the "L formation" has been fixed in place, continue to lay out the remaining tiles. Install all rows carefully, with the Line strips included according to your customer-specific drawing (image I-J). If you do not have a customer-specific drawing, be sure to install a smaller area and check the measures. Then continue the installation and repeat the measurement at regular intervals.



6. The connecting rings must always be laid in the same direction.



Installation cont.

7. Fix the tiles with the joints over the protruding rings and step on it to lock.
8. Continue lay tiles according to your specific drawing for your playing area.
9. For installation within a rink, leave the outermost of tiles for cutting later (Images G-H).

Distance against fixed objects and cutting

It is important to leave a gap all around, from all fixed objects (rink, posts, walls, etc.) for the floor to expand and retract (images L, M, N). This is being done after all tiles and Line strips have been laid.

For cutting, use a jig saw, band saw or bench saw.

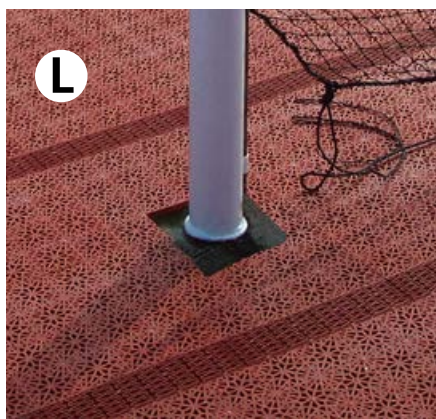
The tiles will be exposed to various weather conditions throughout their lifespan, which may cause them to expand or contract in response to temperature fluctuations. Due to the considerable size of the courts, it is imperative to anticipate these changes to prevent any inconvenience. Therefore, to accommodate the expansion of tiles, clearance must be provided in the following areas:

- Around fixed posts
- Around walls (The tiles are preferably placed under the board where possible)
- Under Metal profiles

It may be helpful to lay the tiles under the rink where it is possible that the floor may move freely when it expands. Remember that large and heavy goals etc. that are placed directly on top of the floor may prevent natural movement of the floor. Adjustments or cutting may be required at a later point.

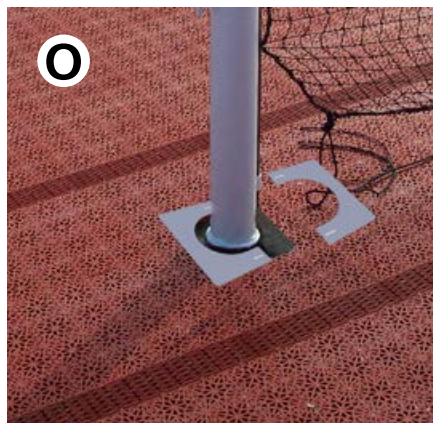
Leave a gap or cut tiles according to the following dimensions:

Court dimensions	Temperature at site	Minimum distance between tiles and fixed elements
Length: from 25 to 40 m. Width : from 15 to 20 m	10-20 °C (50-68 °F)	50 mm
	21-35 °C (69-95 °F)	30 mm
Length: from 10 to 25 m. Width: from 5 to 15 m	10-20 °C (50-68 °F)	40 mm
	21-35 °C (69-95 °F)	20 mm



Bergo Metal Cover Profile

For a smooth finish around fixed posts e.g. tennis nets you can add the Bergo Metal Cover Profile (Image O).



Lines

It may be helpful to use Bergo Line strips to mark straight lines on the playing area, such as side lines and a centre line etc. Other lines must be painted on site. All curved lines must always be painted.

When painting lines, a paint suitable for polypropylene must be used, so we recommend in the first instance Maraprop PP from Marabu GmbH. Clean the surface where it is to be painted, and after careful use of masking tape, paint the lines using a roller, which results in a thinner and more even surface than painting with a brush.

A roller with short bristles, which does not take up too much paint, is preferable, and it must be suitable for solvent-based paint.

At least two coats will be required. The temperature must be at least 15 °C when painting and let it dry 48 hours before usage. You may prefer to employ a professional line painter. See more info at www.marabu.com about the paint.



Example of playing areas with both Line strips and painted lines.

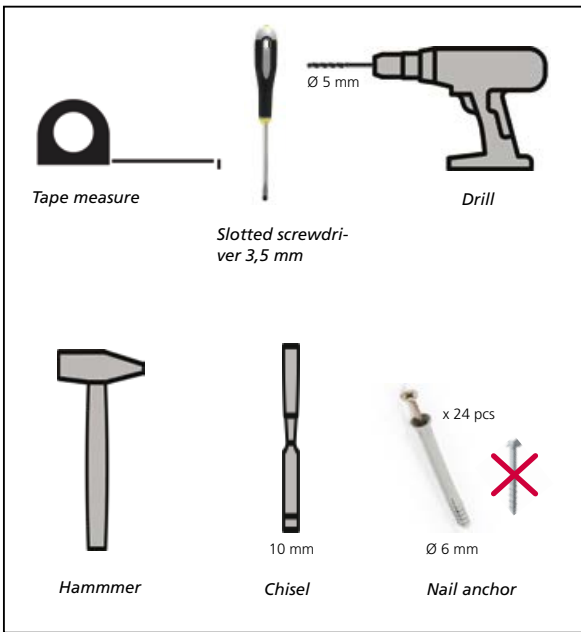
Anchoring/fixing the court

For areas over 300 m² (3200 sqft) we recommend Bergo Ultimate court to be anchored to the subsurface (asphalt or concrete) to prevent that the court moves in an unwanted direction. This is done by attaching the floor in the middle of the court:

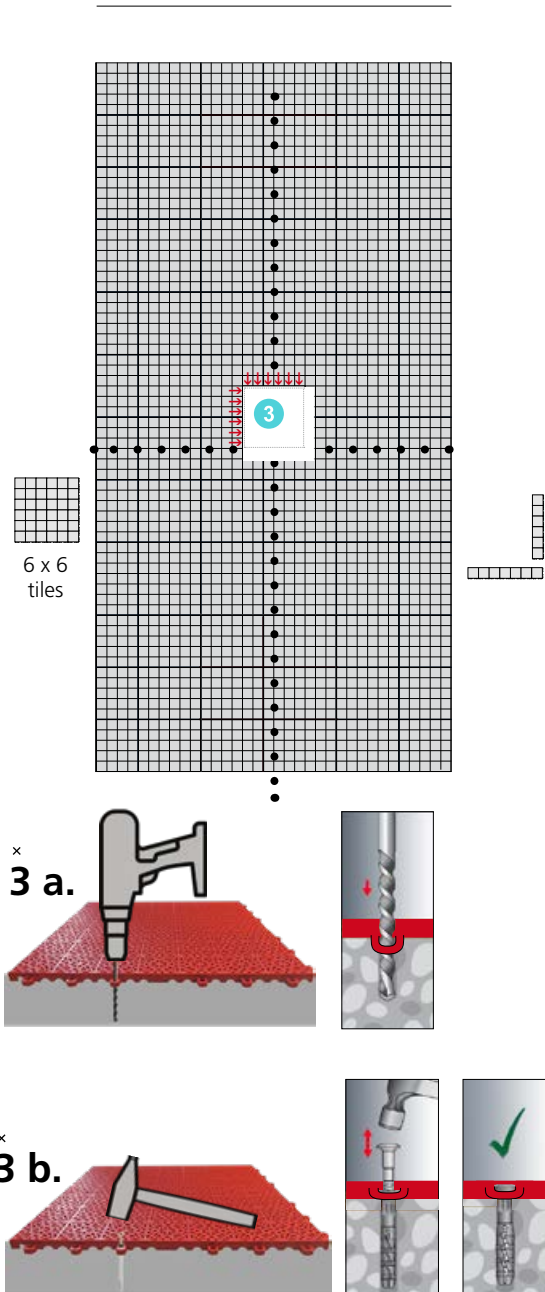
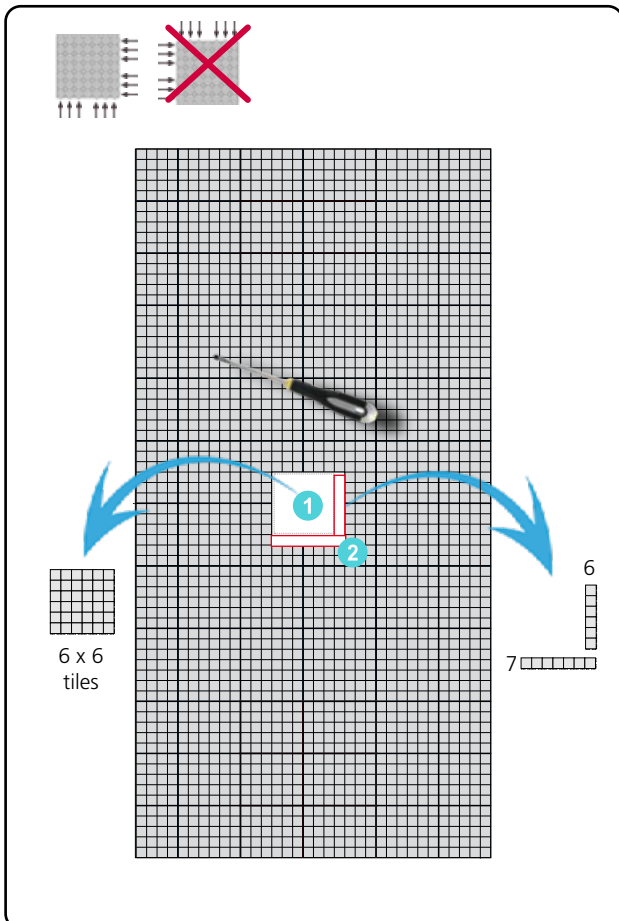
- 1 Use the screwdriver to lift up a sheet with 6 x 6 tiles from center of the court.
- 2 Use the screwdriver to lift up 1 sheet with 7 tiles and 1 sheet with 6 tiles, as shown in principal sketch below.
- 3 Anchoring the court:

3 a. Drill into the subsurface through only 1 protruding ring per tile (x).

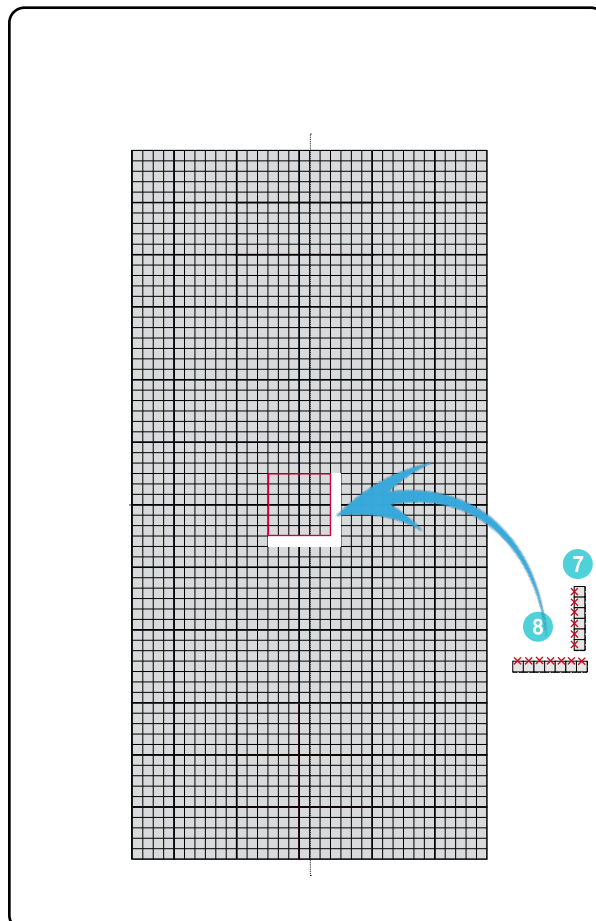
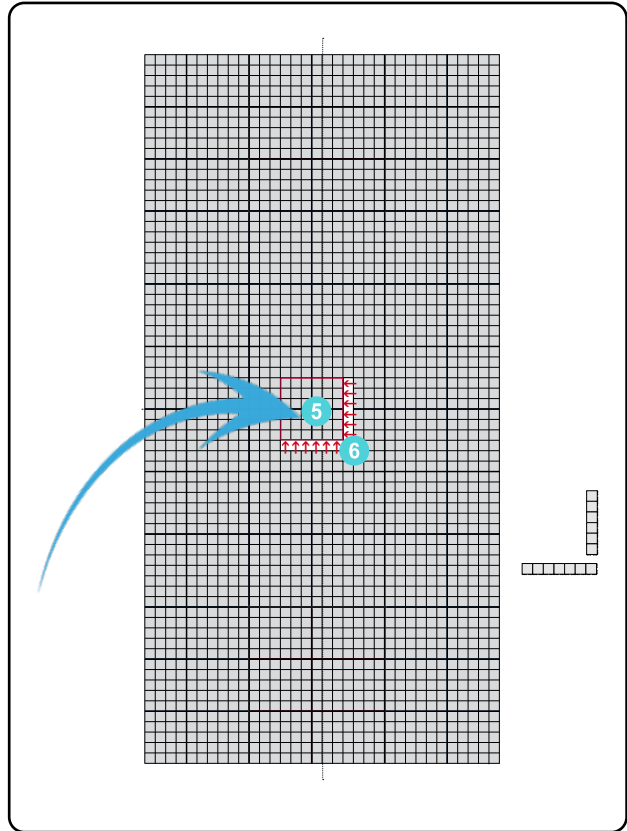
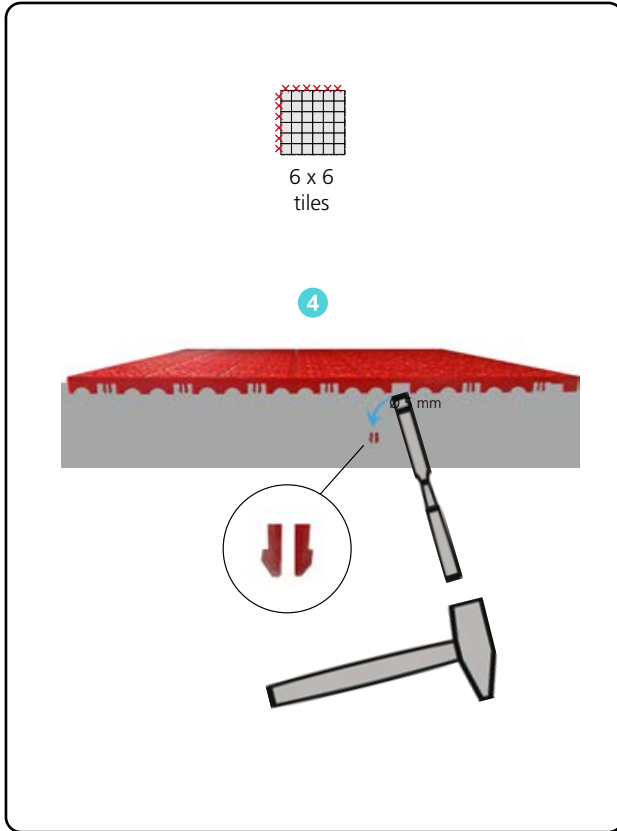
3 b. Fix the floor with the nail anchors in the drilled holes through the protruding rings on the tiles.



A slope of approx. 0.5% starting from the center of the court is recommended. If the groundwork does not follow the center drain recommendation, consult with us to secure adequate installation method.



- 4 Cut out the corresponding taps, 1 on each tile on the 6x6-sheet, as shown.
- 5 Put back the 6x6-sheet and connect it to the court again.
- 6 Anchoring the 6x6-sheet:
 - 3 a. Drill into the subsurface through only 1 protruding ring per tile (x).
 - 3 b. Fix the floor with the nail anchors in the drilled holes through the protruding rings.
- 7 Cut out the corresponding taps, 1 on each tile on the 7-tiles sheet and the 6 tiles-sheet as according to image No. 4.
- 8 Put them back and connect them to the court again.
- 9 Finished!



Mistakes during installation, moving, taking up and storing a Bergo floor court.

Bergo Disassembly Tool (art.no. 18RT) has been developed for quick and easy removal e.g. at fairs, temporary matches and other mobile applications. It sometimes happens that you do something wrong during installation. If that happens, use our disassembly tool to easily take it up and make adjustments.

Do not take up or install the flooring at temperatures below 10°C (50 °F). At lower temperatures the flooring becomes more brittle and has to be handled with care. Please note that the flooring can be used and left out all year round. Snow and ice will do a Bergo floor no harm!

The tool can also be used to take the flooring up for a major clean. Take the flooring up in large sections and lay them systematically in piles to make it easier to put them back in reverse order. You could mark/number the pallets for easier installation.

If the flooring is to be transported further, the sections should be laid on pallets according to their size, e.g. 2x3 tiles per sheet.



MINIMAL MAINTENANCE

Bergo ULTIMATE™ and ULTIMATE PLUS™ require minimal maintenance. You can clean your surface when needed, but to maintain the properties of the court, we recommend a frequency of once a year, using a high-pressure water hose to remove dust and dirt. Of course you can also use professional cleaning equipment in public spaces and at larger installations.

Cleaning/maintenance

Outdoors:

The floor may be cleaned by high-pressure hose. If it is very dirty, use the nozzle for patio cleaning and a cleaning agent for patio or plastic floors. A leaf blower will quickly and easily remove leaves, seeds, rubbish, etc.

Indoors:

Vacuuming and mopping. A wet scrubbing machine can also be used.

For more thorough cleaning, the floor can be taken up, see page 10, about disassembling.

Cleaning agents:

We recommend our cleaning agent Bergo Multifix. The agent also removes handball glue and black marks from wheels or shoes. In some cases it is also possible to use a proper cleaning agent for terrace or plastic floors.

Bergo Multifix

Bergo Multifix is a well-tested cleaning agent for heavily soiled Bergo floors. Most cleaning agents can be used to remove dirt, but some are especially suited for composites.



LAYING INSTRUCTION

BERGO ULTIMATE™ AND ULTIMATE PLUS™



Good Luck with the installation!

**We hope you enjoy your Bergo Sport Floor
many years to come.**

www.bergoflooring.com

Feel free to send us pictures
of your installation!
info@flooring.se

If you have any questions,
please contact customer
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FIBA
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EQUIPMENT

