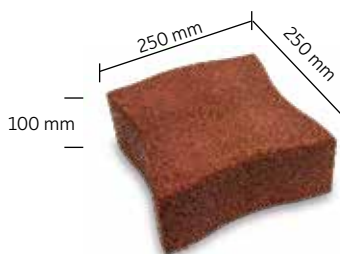
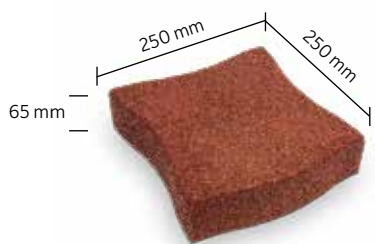
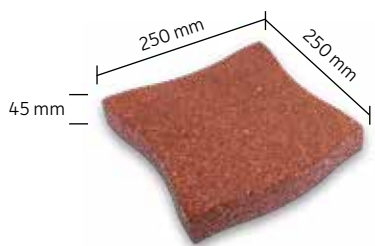




Terrasoft® Design paving



The Terrasoft design paving made of pure rubber granulate (1-3.5 mm, linear 2-5 mm) is bound and coated with polyurethane and convinces with its numerous advantages and application possibilities. The floor covering is, among other things, absorbent and, with its three thicknesses, offers three different drop heights, from 1.50 metres to 3 metres. The soft, slightly resilient material is extremely easy on the joints, so the stones are popular in areas that require good, sure-footed footing and orthopaedic benefits. The individual elements interlock perfectly and thus ensure a high level of positional stability. Curbs can be cut quickly and flexibly with the carpet knife.

ADVANTAGES

- Extended joint course for a high positional stability
- creative surface design through inlays possible
- slip-resistant even when wet
- water-permeable/quick drying
- sound-absorbing
- insulating
- barrier-free usable

APPLICATION

The Terrasoft design paving FS 45 is available in numerous colours and is used in outdoor areas, among other things as a covering for entrance areas or under playground equipment. Please observe the maintenance instructions as well as the care instructions. The covering is also available with an EPDM surface for an additional charge (see p. 78/79).

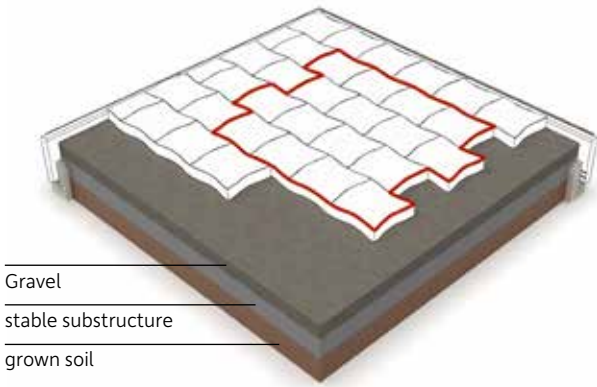
MATCHING EDGE ELEMENTS

On substrates capable of drainage, the area can be quickly and easily edged with Terrasoft path bordering.



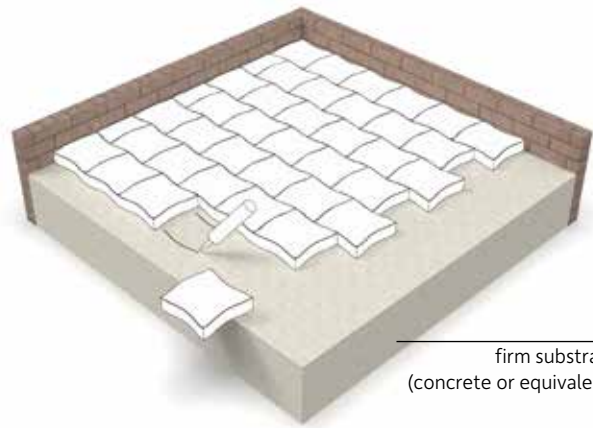
Path bordering
Item no. 252000xx1

Terrasoft® Design paving FS 45 (L x W x H) 250x250x45 mm | SBR rubber granulate | Fall height 1,50 m | Item no.: 151340xx1
 Terrasoft® Design paving FS 65 (L x W x H) 250x250x65 mm | SBR rubber granulate | Fall height 2,10 m | Item no.: 151365xx1
 Terrasoft® Design paving FS 100 (L x W x H) 250x250x100 mm | SBR rubber granulate | Fall height 3,00 m | Item no.: 151310xx1



Gravel
 stable substructure
 grown soil

Laying the Terrasoft design paving stones on a permeable substrate (not vehicle load-bearing).



firm substrate
 (concrete or equivalent)

Laying Terrasoft design paving stones on firm substrate. Bonding with gluing spots on the drainage.

INSTALLATION INSTRUCTIONS

Please follow the detailed installation instructions (page 226 ff) and consider the following information. 17 pieces make one square meter. Ensure a stable edging on all sides of the area.

Dimensional tolerances may occur due to production. These will be compensated within 48 hours after installation. Please note that the final row in the installation plan will only be cut to the required size after the above-mentioned 48 hours have elapsed.

Laying on permeable substrate:

First, remove topsoil and soil down to a bearing, firm substrate. In cohesive, impermeable soils (e.g. loam), the foundations should be arranged with an appropriate slope and a drainage system for the discharge of surface water. Then, a vehicle load-bearing substructure (grain size 0/32 mm to 0/56 mm) min. 20 cm thick is filled in and compacted. Subsequently, as surface compensation and plate support, high-grade chippings (3/7 mm min. 25 mm thick) is filled in with a 2.5 % gradient. A solid edging must be respected in the installation. We recommend the edging of the Terrasoft program.

Laying on firm substrate:

An important prerequisite for the installation of plates made of single-grade rubber granulate is the professional preparation of the substrate with the appropriate slope. A smooth gradient screed with subsequently applied moisture insu-

lation as the water-bearing level is most suitable. Previous films and bituminous waterproofing membranes must first be tested for their suitability as a substrate. A solid edging to maintain the position is essential. To ensure the desired position securing in the long term, the edge plates should be glued to the substrate.

MAINTENANCE INSTRUCTIONS

Terrasoft flooring systems are non-hazardous in terms of the norm. The operator has to ensure a regular inspection of the area.

Visual inspection: weekly visual inspection to detect obvious hazards

Operational inspection: quarterly wear monitoring to verify the position securing and durability of the edgings and connectors. Elimination of possible trip hazards. Replacement of plates in case of damage or surface abrasion

Main inspection: annual intensive inspection of the position securing and operational safety of the trip protection. Monitoring the strength of the connectors used and the edging elements. For inspection of equipment foundations, the elements can be taken out of the connection and can easily be integrated again after the inspection.

Colours



-10 redbrown
 -12 green
 -13 anthracite

Specifications



Design-paving FS 45
 Design-paving FS 65
 Design-paving FS 100

Spare parts



4525001x1 glueing



IMPACT RESISTANT PLAYGROUND SURFACE

Correct implementation of European Standard EN 1176/1177

Playground surfacing systems are required to comply with product safety legislation.

Adherence to the safety requirements contained in this legislation must be verified in the form of a certificate from an approved test body following successful completion of testing. We have provided a simplified and summarized explanation of how to implement this standard for planners and decision makers who decide in favour of surfacing systems.

It may be assumed that the most serious of all probable accident risks occurring in children's playgrounds is that of head injuries. Consequently, priority has been assigned to the creation of a criterion to evaluate the efficiency of floor surfacing systems which minimize this injury potential.

As a consequence, not only test procedures but also criteria for the choice of playground floors are determined which represent the upper limit of capacity to avoid head injuries, applicable for play equipment installed in accordance with EN 1176.

As you have chosen in favour of impact protection systems, you will be aware that six individual certified height measurements exist for different fall heights from 3 m.

The relevant generally applicable certificate is provided overleaf. After selecting the right slab, what is important is the surface area from which use of the playground apparatus begins and which encompasses at least the impact area.

The impact area is the surface on which a user can land after dropping through the falling space.

The following points must be taken into consideration when defining this area:

Up to a free fall height (free fall height=pedestal height, upper rung or upper handle position for hanging apparatus) of 1,5m, an additional falling space length of at least 1.5m must be provided around the apparatus.

With a free fall height of more than 1.5 m the falling space to be protected with the relevant drop protection measures must be calculated as follows:

<p>Required minimum falling space length: $\frac{\text{free fall height} + 0,75 \text{ m}}{1,5 \text{ m}}$</p>

TECHNICAL INSPECTION AND MAINTENANCE

Controlling and Maintenance

In order to ensure the safety of the product in a responsible way, the plates installed need to be inspected and maintained in regular intervals. Due to their material quality Terrasoft impact-absorbing plates are designed for a long useful life with short maintenance intervals. Even so, the clear guidelines laid down in DIN EN 1176/1177 are also binding for Terrasoft elastic/safety slabs. To ensure the safety of the impact protection, the installed slabs require regular inspection and maintenance. Due to their high quality, Terrasoft impact protection slabs are designed for a long service life. The clear requirements of DIN EN 1176/1177 are binding for Terrasoft impact protection slabs. The external influence and impact on durability of impact protection qualities is not exactly foreseeable. External influences can be high exposure or high-risk locations regarding vandalism. Furthermore, weather conditions, UV radiation, high frequentation areas (i.e. under swings or seesaws), unregular maintenance etc. can influence the impact protection qualities. Dust loading of the air, locations near the coast with high salt concentration or sand areas nearby can have a negative influence if maintenance is insufficient. With regular maintenance and care, Terrasoft system's impact protection can be expected for up to 10 years. This outperforms the durability of all alternative impact protection systems by far, especially as the costs for maintenance and securing of impact protection are far lower compared to sand, bark mulch or wood chips.

Warning!

Maintenance intervals need to be shortened with high frequentation of the area, high risks of vandalism, extreme weather conditions or locations near the coast. This applies to different locations on play and recreation areas. High frequentation on the impact protection areas i.e. by teenagers, in entrance areas or dirt require respective maintenance intervals. In cases of abrasion i.e. with a punctual frequentation like under some playground equipment, slabs have to be replaced. For replacement or repairing, only spare parts of the manufacturer are to be used. Checking of maintenance intervals and controlling of professional execution of installation and repair works are duty of the operator, who generally is responsible for maintenance. During installation and maintenance work, the area has to be visibly closed for children.

It has to be ensured that the drainage system constantly works. Keep yourself informed about the resulting requirements and duties, like they are at least partly specified in EN 1176/1177.

SURFACE ADHESION

The surface adhesion is mainly for the fixation of solid rubber products.

Preparation of the subsoil

The concrete foundation must be rough, clean and dry. Please pay attention that the glueing areas are free of oil, greases and other residues e.g. colours, rubber abrasion, cement mist etc.

The surface and environment temperature must be at least 8°C resp. at least 3°C above the dew point temperature. Air temperature not higher than 80%.

Adhesion priming

Fill adhesion priming in another pot and apply thinly on the subsoil by rolling or painting.

If necessary, subsequently smooth put to avoid puddles.

The drying depends on the air humidity.

With a high air humidity the drying is delayed. In the drying time, a direct water admission should be avoided.

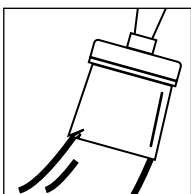
Under certain circumstances, it may be necessary to grind the dried adhesion priming. The grinding dust should be removed thoroughly.

Glueing process

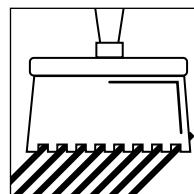
Admit 1.5 kg hardener to 10 kg glueing and mix it at a low rotative speed achieving a mass free of mist.

When glueing rubber on concrete, the glueing mass should be applied and compressed on the concrete surface with a toothed spatula (4 mm).

Please pay attention that the area is not stepped on for 48 hours.



adhesion priming



glueing process

JOINT FILLER

The joint filler is applied when already laid elements should be glued together upon the impact edges. This way, it is not possible to take away single elements.

Processing

With the supplied plastic nozzle, an exact dosage is achieved by simply pressing the middle of the bottle.

Please pay attention that the joint filler remains liquid during the processing period. The joint should not be larger than 3 mm.

Please pay attention that the surface is not stepped on for 48 hours.

CARE INSTRUCTIONS

A regular care of the layed slabs serves the security and increases its attractive appearance and the life span.

- The dust on Terrasoft areas can be swept off with a broom with hard bristles. The can also be cleaned with a high-pressure cleaner. This also removes dirt residues from the porous surface of the slabs.
- Depending on the degree of soiling, a deep cleaning, e.g. be carried out with a high-pressure cleaner.
- Coloured surfaces can be subsequently refined through application of a special spray coating. In the case of EPDM paving slabs, aggressive soiling due to environmental influences can be removed by sanding down the surface.
- Fouling with moss or grass in the joint area can lead to the panels being pushed apart or pushed up. Be sure to remove such growth early.
- Decolorations of the surface can occur through durable remaining ram moisture on the substrates as well as diverse plants in the direct surroundings of the slabs.
- External influences can have an effect on the condition of the surfaces. Weather, UV radiation, dust from the air, sites near the coast with high salinity or sand areas near the impact protection slabs can have a negative effect on lack of care.
- In cases of abrasion slabs have to be replaced