

merz garden cell

Grass driveway grid for car parks, access routes and driveways

The green alternative to cement paving systems

ADVANTAGES

- High drainage capacity in green areas used as car parks and driveways, allowing rain to feed into the water table.
- High resistance to compression of the elements (150 ton/m²)
- After the sowing and the growth of the grass, MERZ Garden Cell is hardly visible, so it does not alter the look of the lawn.
- Honeycombs open on more than one side to allow growth and transversal ramification of the roots, thus providing greater stability to the grass covering.
- Very low weight and very quick laying (about 30-40 m²/hr).
- Safe anchoring of the foundation thanks to a 3.5cm high coupling teeth

MERZ Garden Cell is an environmentally friendly product as it is made of HDPE (High Density Polyethylene 100% recycled and 100% recyclable at the end of its use.

MERZ Garden Cell is the cellular grass paving system suitable for vehicles, which guarantees a firmly rooted lawn and allows vehicular traffic.

LAYING INSTRUCTIONS

The MERZ Garden Cell cellular grass paving system must be laid on a properly levelled surface. The paving consists of the following elements.

- Sub-base
- Bed for cellular grass paving system
- MERZ Garden Cell laying
- Grass sowing
- Maintenance



APPLICATIONS

- Car Parks, Driveways
- Pedestrian Zones
- Securing Slopes
- Areas Surrounding Trees



THE FOUNDATION

Normally the thickness, the number and the features of the foundation layers are strictly related to the characteristics of the ground and the kinds of the loads that will be supported by the MERZ Garden Cell cellular paving (vehicles and/or pedestrians).

Foundations for Vehicular Traffic Zones

Prepare a sub-base approx. 30cm deep consisting of a well compacted pebble gravel. On this base lay non-woven fabric 400 gr/m². Its main function is to separate the finest parts of the bed from the sub-base.

Water tends to carry the finest parts towards the lower layers and, if this is not blocked by the non-woven fabric, it could cause a weakening of the whole supporting layer of the road.

Foundations for Pedestrian Zones

Perform the same operation as described above, with a foundation approx. 15 cm deep.

BED FOR CELLULAR GRASS PAVING SYSTEM

The bed for cellular paving must be composed of mixed sand or crushed stone with good geo mechanical resistance. As regards the granularity, it is necessary to use mixed sand with grains up to 5-7mm and crushed stones with grains of 3-6mm. The bed must also be well compacted and levelled. Levelling must be done at a temperature not lower than 2 °C

MERZ GARDEN CELL LAYING

Once the preparation of the supporting layers has been completed the cellular paving can be laid. MERZ Garden Cell has a snap-lock system which secures each sheet to the other.

Machinery is not necessary to lay MERZ Garden Cell, as each sheet weighs only 1.2 kg approx. Once this step has been completed the whole surface of the MERZ Garden Cell is to be filled with the soil. Attention must be paid to the borders where the cellular paving must be surrounded by a retaining kerb, like traditional paving.

Remember to leave 5cm approx. between the border of the cellular grass paving system and the kerb to prevent movement.

During the summer it is important to fill the honeycombs soon after laying the cellular paving system, completing each sector before proceeding with the next.

MERZ Garden Cell is easy to cut with a jigsaw or circular saw in order to fit a drain, a pipe etc. If laying MERZ Garden Cell on slopes, banks, ditches or roadsides pay attention to the laying materials, which must be made of highly draining but stable materials. With steep slopes the usage of anchorage systems is recommended.

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GRASS SOWING

To enable the optimal grass growth, fill the honeycombs with a mixture consisting of 40% sand, 30% peat and 30% soil; it is not recommended to fill in the grids using the fine gravel.

Before proceeding with the filling in the grids, the parking area markers must be laid and anchored down if you wish to separate one car space from the next.

For a fast and lasting growth of the lawn the use of a drought-resistant grass is recommended. Before sowing, profuse sprinkling of the paving is recommended.

After sowing apply a suitable fertiliser and sprinkle frequently until the grass has grown completely. With the correct humidity rate, the soil used to fill the honeycombs will decrease by 1-1.5cm approx. Leaving room for the grass to grow without being damaged by pedestrians or vehicles.

MAINTENANCE

The pavings reinforced with the MERZ Garden Cell, as all the lawns need regular watering, mowing and occasional fertilising.

SIZE

50cm x 50cm x 4cm

56cm x 38cm x 4cm

