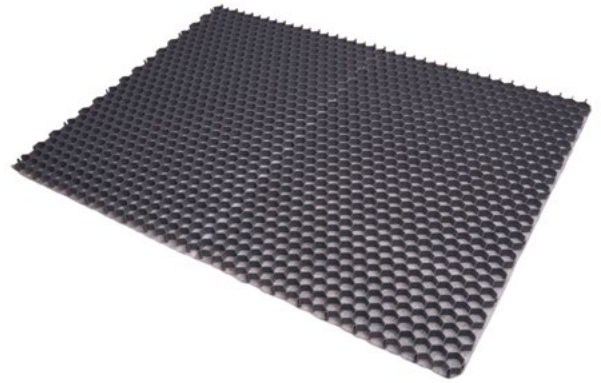


ALVEPLAC[®]

Gravel stabilisation grid



Watco Alveplac is the ideal solution for providing a stable platform for gardens, pathways and pedestrian areas. Offering an aesthetic finish, Alveplac retains gravel and ensures the rapid drainage of water. Easy to handle, the Alveplac grids are assembled with an integrated anchoring and interlocking system creating a strong hold that won't separate.

Perfect for public, commercial and industrial spaces, the Alveplac grid can be used for vehicles with axle loadings of up to 20 tonnes. For heavy traffic in urban areas, we recommend Urbangravel[®] as a suitable alternative.



Colours



Grey



White

Areas of use:

- Paths and pedestrian areas
- Driveways, private parking, gravel access roads
- Gardens
- Public, community, commercial and industrial use

Features:

- Retains gravel
- Ensures the rapid drainage of water
- prevents ruts
- Available in single or double sizes, white or recycled grey
- Integrated assembly system prevents grid from separating
- Easy handling - light product
- Can be installed on a slope up to 15% incline for pedestrian areas or 10% incline for vehicle use
- Resistance to temperatures from -30°C to +60°C
- UV and frost resistant

Need help? Speak to the experts

Our dedicated and professional team are here to help you get the best results for your project. They will talk you through the preparation and application stages when using **Alveplac**.

Call our expert team on: 01483 418 418 (Weekdays 8:00am - 5:30pm. Saturday 9:00am - 12:00pm)



ALVEPLAC[®] landscaping areas

Recommendations

- The bedding (or sub-base) layer must meet the following requirements as a minimum:
- Provide drainage for stormwater and runoff water. For example: the ground is considered free draining when there is no evidence of standing water after heavy rain. Where this is not the case, we recommend that the surface is drained, either by laying drainage pipes or by creating a drainage layer using 40/80 crushed stone.
- Be free of rising groundwater levels. For example: the ground is prone to rising groundwater levels if it becomes wet and unstable following long periods of rain.
- Have sufficient load-bearing capacity for its intended use (pedestrian or vehicular). For example: ground that has been driven over and compacted by vehicles for a period of years is considered stable.
- For new-build properties, we advise checking the ground conditions with the groundwork contractor. If in doubt, it is best to ask a groundwork contractor for advice.
- To provide the stated load resistance, Alveplac[®] cells must be filled with gravel, plus an additional 2 cm top layer.
- Alveplac[®] must be laid on a stable and well compacted base. Please don't miss it, otherwise its functionality could be seriously impaired.

Maintenance

- Gravel raking may be required from time to time and add gravel if it is necessary.

CREATE DRIVEWAYS, GARDEN AND PARKING SPACES

- Projects may make combined use of ALVEPLAC[®], and GREENPLAC[®] products.

1 Project preparation

Draw a plan of the area as the basis for quantifying the materials you will need: number of tiles, quantity of gravel, quantity of sand, etc. N.B.: Tiles can be cut using a hand or power tool to fit around kerbs or other obstacles.

2 Marking out the area

Mark out the area using pegs and string lines or a marker spray.

3 Ground preparation

- **For pedestrian areas:** Lower the ground level by 10 cm. Use a lawn roller to compact the surface. Remove any remaining large stones by hand and lay geotextile membrane of 120g/m² weight. For full coverage, overlap the strips of geotextile membrane by 10 cm.
- **For traffic areas:** Lower the ground level by 20-30 cm. Compact with a vibrating plate then lay a first 120g/m² geotextile membrane. For full coverage overlap the strips of geotextile membrane by 10 cm. Then lay a 10-20 cm foundation layer of 30/70 gravel (70%) and sand (30%). Compact with a vibrating plate then lay a geotextile membrane of 120g/m² weight again.

ALVEPLAC[®] landscaping areas

4 Site preparation

There are two options: Either the gravel is laid to the same level as the soil. Or you can create raised edging using the product of your choice..

5 Sand bed (or levelling layer)

Use the straight edge to spread and level a layer of 0-5 sand. This layer should be at least 1 cm thick, but no more than 5 cm.

6 Install ALVEPLAC[®]

Clip the mats together to prevent from eventual separating over time, and ensure the geotextile is well overlapped underneath each join to avoid weed growth.

7 Filling and finishing

Fill using 5/15 or 8/16 gravel, ensuring that all cells are completely filled. Add approximately 2 cm of gravel on top of the tiles to ensure optimum product performance. There is then the option to tamp the surface to ensure that the whole area is evenly compacted.

ALVEPLAC[®]

Urban areas

Recommendations

- Do not use with hot mixed asphalt.
- To provide the stated load resistance, Alveplac[®] cells must be filled with gravel, plus an additional 2 cm top layer.
- Alveplac[®] must be laid on a stable and well compacted base. Please don't miss it, otherwise its functionality could be seriously impaired.

Maintenance

Gravel raking may be required from time to time and add gravel if it is necessary.

1 Site preparation

- Where required, create edging or kerbs to form the desired shape, using a laser level to align the heights.
- N.B. Tiles can be cut using a hand or power tool to fit around kerbs or other obstacles.

2 Preparing the sub base

- Excavate soil to the required depth from 10 to 70 cm according the use. The depth of the subbase will vary depending on the use:
- Pedestrian way : from 10 to 30 cm.*
- Carpark : from 40 to 50 cm.*
- Fireman access : from 50 to 60 cm.*
- Trucks : from 60 to 70 cm.*

*Values may be adjusted according to the nature of the soil.

- Compact with a vibrating plate.

N.B. It is important to check at least the load-bearing capacity of the soil and its permeability. Check whether it is subject to rising groundwater. We recommend that these important considerations are professionally assessed by means of a geotechnical survey carried out by structural engineers. It is essential that the sub-base has the correct load-bearing capacity for the intended use:

Pedestrian paths: 30 MPA, - Access for vehicles up to 3.5 tonnes: 50 MPA, Access for HGVs and emergency services: 80 MPA

3 Laying the geotextile membrane

- › Lay a non-woven geotextile membrane of at least 120g/m² weight.

4 Draining foundation

- Lay a draining foundation layer of 40/80 crushed stone to 30-50 cm depth.
- Compact with a vibrating plate.

N.B: The drainage layer is optional. A drainage layer is recommended where:

The sub-base is not permeable enough to absorb runoff water, the sub-base is prone to rising groundwater. This layer can act as a buffer, and should allow access water to drain away. In some situations, drainage can be improved by running pipes through the drainage layer.

ALVEPLAC[®]

Urban areas

5 Sub base

Lay a non-woven geotextile membrane of 120g/m² weight. On top of the draining foundation, lay a sub-base of mixed of crushed 0/31.5 gravel to a depth of 20-30 cm. Compact with a vibrating plate.

6 Levelling layer

Lay a levelling layer of 5 mm-to-dust to a depth of 1-4 cm. This layer provides a clean surface and corrects any variation in level.

7 Install ALVELAC

Clip the mats together to prevent from eventual separating over time, and ensure the geotextile is well overlapped underneath each join to avoid weed growth.

8 Filling and finishing

Fill using 5/15 or 8/16 gravel, ensuring that all cells are completely filled. Add approximately 2 cm of gravel on top of the tiles to ensure optimum product performance. There is then the option to tamp the surface to ensure that the whole area is evenly compacted.

ALVEPLAC[®]

Gravel stabilisation grid

Specification

Composition	polypropylene (recycled or non-recycled options available)
Finish	Cell structure: Hexagonal (honeycomb) / internal diameter 42mm.
Usage Interior/ Exterior	Exterior.
Pack Size	Single: Pallet of 38 parts (stackable). Double: Pallet of 19 parts (stackable).
Coverage	Single : <ul style="list-style-type: none">• Overall dimensions: 1166 mm x 800 mm x 30 mm• Usable dimensions: 1150 mm x 790 mm x 30 mm Double : <ul style="list-style-type: none">• Overall dimensions: 1166 mm x 1600 mm x 30 mm• Usable dimensions: 1150 mm x 1580 mm x 30 mm
Weight	Single: 1.7kg per tile. Double: 3.4kg per tile.
Resistance	Empty: 200T/m ² Filled: 650T/ m ²