



Installation manual

Height adjustable surface boxes

General notice

- Heat resistance of synthetic housing: up to 240 °C
- Observe ZTV Asphalt StB 07 guidelines
- Be aware: height adjustable surface boxes need to be installed deeper than fixed height surface boxes. Be sure to follow the minimum level of twelve centimeters (Image A).

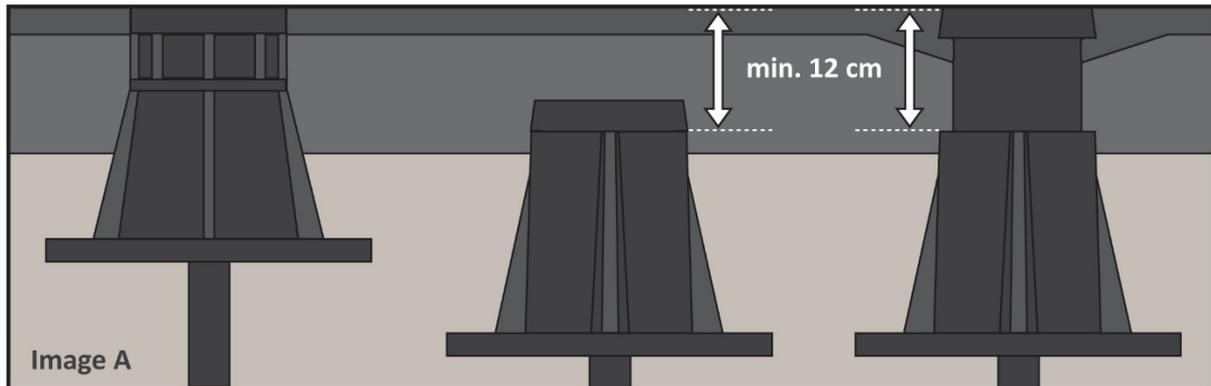


Image A
Fixed height surface box

Height adjustable surface box

Installation

1. Calibrate the surface box.
2. Compact the underground sufficiently and level it before placing the support tile.
3. Place the support tile and surface box into the gravel layer. Make sure the surface box is installed deep enough. The final height of the top part should be at least 12 cm higher than the bottom part. (Image A, Image 1).
4. Compact the surrounding area thoroughly.
5. Mark on the curbstone where the surface box is being positioned. Apply release agent on the surface box lid.
6. Make sure top part is in lowest position. Apply the first tarmac layer to bury the surface box.
7. Dig out the surface box and pull up the top part. Tamp the surrounding area of the top part (Image 3) and roll the tarmac.
8. Free the top part by creating a slope so it can be lifted once more after applying the following tarmac layer. Set the lid description in the right direction and tamp the surrounding tarmac (Image 4).
9. Lay the finishing layer of tarmac.
10. Clear the top part, pull it up and tamp it with tarmac. Make sure the top part is max. two centimeters above the road surface before rolling (Image 5). Roll the tarmac so the surface box is perfectly aligned with the road surface (Image 6).

Tamping and rolling creates a well compacted support layer between top- and bottom part, carrying the “floating” top part. After installation the top of the surface box is perfectly aligned with the height and slope of the road surface. No additional maintenance! No additional costs!



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Installation steps demonstrated

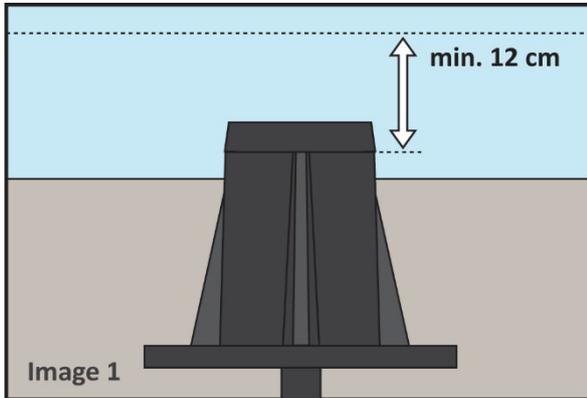


Image 1
Make sure the surface box is installed deep enough. The final height of the top part should be at least 12 cm higher than the bottom part.

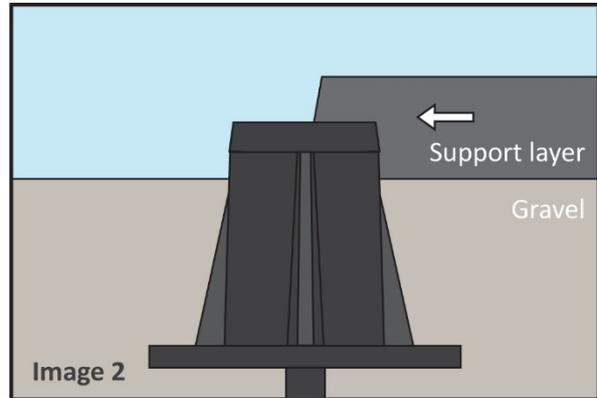


Image 2
Make sure top part is in lowest position and apply the first layer of tarmac burying the surface box.

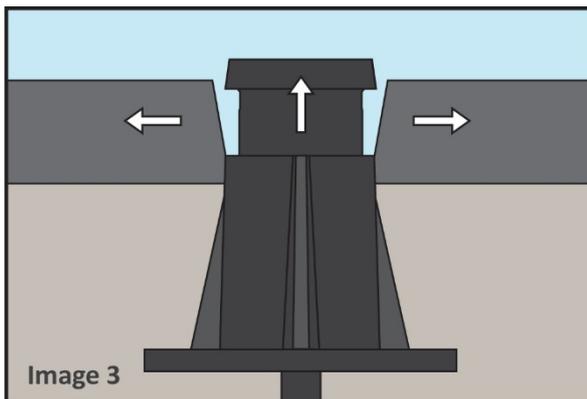


Image 3
Dig out the top part and pull it up approximately 2 cm above surface.

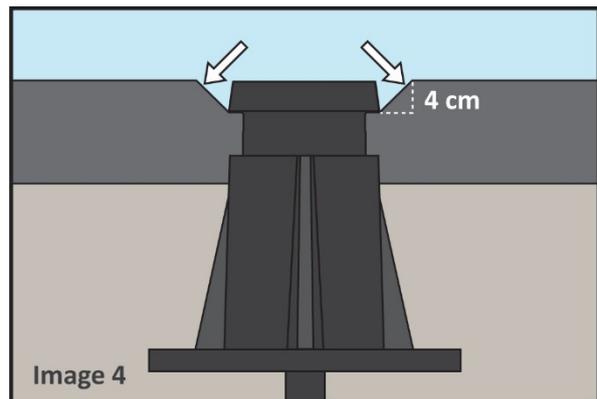


Image 4
Tamp the supporting layer surrounding the top part. Roll the tarmac and settle the top part. Clear the top directly after rolling and create a slope of approximately 4 cm deep and 4 cm wide.

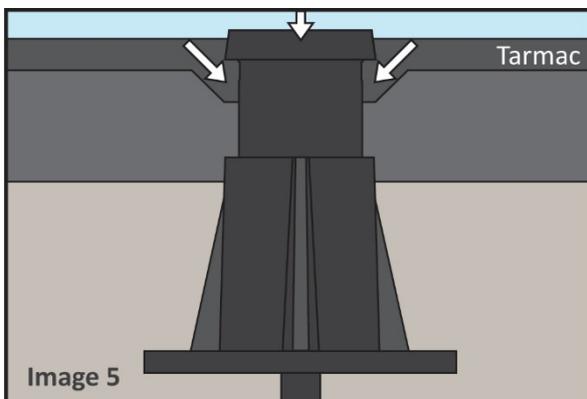


Image 5
Apply the final layer of tarmac. Dig out the top part and pull it up approximately 2 cm above surface. Tamp the tarmac surrounding the top part, roll the tarmac and settle the top part.

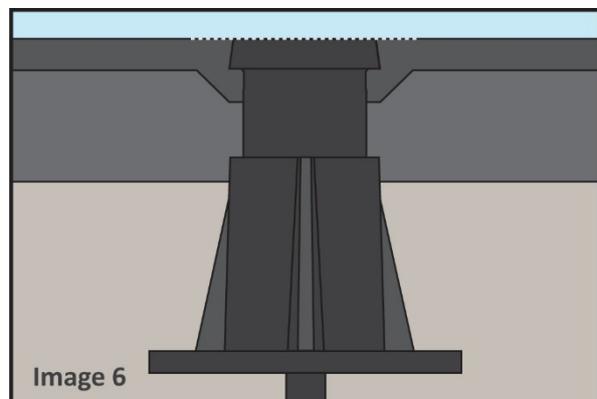


Image 6
Situation after a perfectly installed height adjustable surface box settled in the finished tarmac road.

Go to gw-surfaceboxes.com for more information and installation videos.