

INFO SHEET

Base layer for turf with elastic layer & synthetic surfaces

General specifications for the gravel layer

- Gravel base layer, water-permeable (crushed material for shear strength!)
- Base layer thickness: min. 8 – max. 10
- Lower layer grain size 0–1¼, at least 4¾ thick
- Upper layer grain size 0–⅝ or 0–⅞, at least 3⅛ thick
- Cross slope 0.5%
- Base layer deformation modulus $E_{v2} = 8,700 \text{ psi}$ (60 N/mm^2)
- Evenness $\pm \frac{3}{8}$ over 13 ft
- The requirements of the current DIN 18035 Part 7 must be observed

Notes on slope and installation height of the sports surface

- Distance from top of gravel layer to top of curb = installation height of sports surface
- Installation height as specified by us (varies depending on the synthetic surface system)
- Base layer, curbs and paving should be laid with the same slope to ensure an even installation height across the whole court

Notes on leveling the gravel & preparing the sockets

- Fill any hollows/holes with material, screed and roll again
- Check evenness with a 13 ft straightedge across the whole area, in several directions; rework if necessary
- Replicate the curb, so the synthetic surface can be installed evenly right up to the edge:

- 01 Cover the conduits**, e.g. with duct tape, so no material gets in.
- 02 Replicate the curb**, e.g. with cut wooden wedges. Form corners as corners (not diagonally). Work very precisely; deviations will be visible in the synthetic surface later.
- 03 Keep the sockets clear** (do not pave over them) so that the board system posts can be inserted and set in concrete.
- 04 Finish the paving after the boards are installed**: set aside the paving stones around the conduits for now and lay them over the filled conduits once the work is complete.

It must be possible to work on the gravel layer without leaving any marks!

High resistance to foot traffic and shear is important so that the subsoil is stable, the material does not shift under load and the surface stays level over the long term. Unevenness will be visible and noticeable in the surface; SoccerGround accepts no responsibility for this.

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Examples



Replicated curb · gravel layer level & shear-resistant



Court inside · installed artificial turf



Court inside · installed synthetic surface



Small space.
Big game.

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