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German Technology
Building Drainage Systems

Technical Guide
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Buried Installation Guide

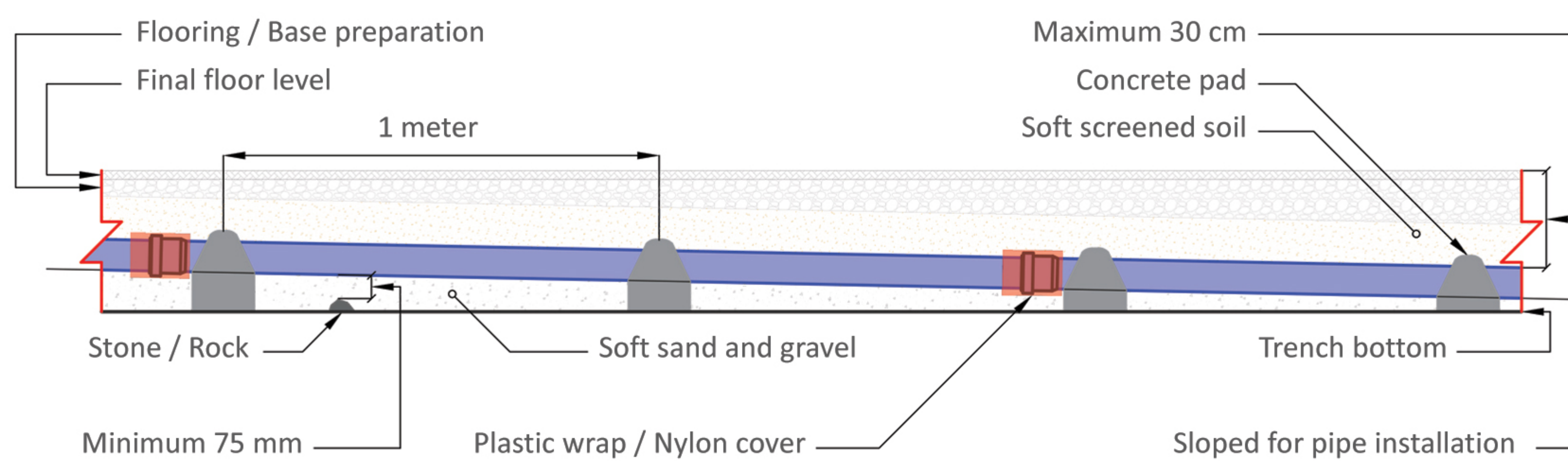
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Buried Installation Guide

1. The trench bed for installing horizontal wastewater pipes must be prepared using fine sand and gravel in a way that it is sufficiently compacted and resistant to support the pipe's weight. The bedding must conform to the shape of the pipe and provide a uniform and continuous support beneath it.
2. If the trench depth exceeds what is needed for proper pipe alignment, the extra depth must be filled with 10 cm layers of fine sand and gravel, each layer compacted individually to create a stable and uniform bedding at the required level.
3. If stones are present in the trench bed, they must be removed or trimmed to a depth less than 75 mm. Then the area should be filled and compacted with fine sand and gravel to ensure a uniform and stable bedding. Pipes must never be placed directly on rocky surfaces.
4. The pipe support along the span between two joints must be continuous so that the pipe's weight is evenly distributed. Placing the pipe on intermittent beds — for example, only under the joints or with parts of the pipe span unsupported — is not permitted.
5. If the trench bottom soil is weak or unsuitable for use as pipe support, the bed must be excavated to a depth at least twice the pipe diameter, then backfilled and compacted in layers of fine sand and gravel to form a proper bedding.
6. After pipe installation, the sides and top of the pipe must be backfilled with soft, screened soil. Backfilling should be done in 150 mm layers, each compacted separately. The filling must be uniform and balanced to keep the pipe stable along its axis.
7. To ensure and maintain proper slope alignment, concrete pads must be placed beneath each socket and at every 1 meter of pipe length.
8. It is recommended to cover each socket with a plastic wrap to prevent dust or cement slurry from entering the socket and coming into contact with the sealing rings.

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9. When pipes pass through external walls or seismic joints, a durable sleeve must be used to protect the pipe.
10. The recommended maximum burial depth for the push-fit system is 30 centimeters below the final floor level.
11. If the final surface is a traffic area or exposed to heavy/industrial machinery, it is recommended to place the pipes and fittings inside covered channels, so that the applied forces are absorbed by the roof and walls of the channel.



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