













Difficulties in using the above scheme (or PVD method)

- Soil improvement can only be carried out after all the fill materials have been placed and the working platform has been formed;
- Difficult and time consuming to form a working platform;
- Difficult to design. Due to large compressibility, more fill materials need to be placed and more reconsolidation... Difficult to estimate the final level. Time consuming;
- Vacuum can only be applied section by section. Partitions are needed which are difficult to built and expensive.
- The vacuum pressure is limited to 80 kPa

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Summary When soft or slurry materials are used for land reclamation, it is difficult and time consuming to use to conventional vertical drain + vacuum preloading methods. A better method is to use horizontal drains. A method using the drainage enhanced geotextile sheet is proposed.