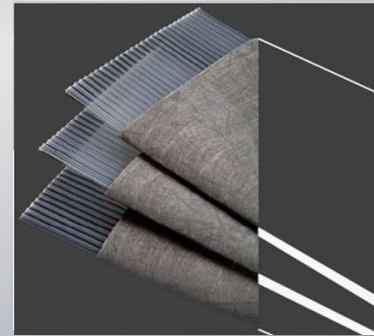


Pre-Fabricated Vertical Drain (PVD)

Ground Improvement Technique

Pre-fabricated Vertical Drain (PVD) ground improvement systems are the most widely used methods to accelerate the consolidation process and avoid post-construction differential settlement. By introducing vertical drains, the drainage paths are shortened, and therefore the time required for excess pore water pressure induced by the loading operation to dissipate will be significantly reduced. Accelerated consolidation can now be done by vacuum technique.



The material has been used in Hong Kong since the early 80's in:

- ❑ Yau Ma Tei and Tseung Kwan O reclamation
- ❑ Kwai Chung container port terminal 9 development
- ❑ Infrastructure for Penny's Bay development
- ❑ Wo Shang Wai development
- ❑ Hong Kong – Zhuhai – Macau bridge



*Hong Kong-Zhuhai-Macau bridge –
Hong Kong Link Road – Scenic Hill. Jan
2013 (HY/2011/03)*



*Hong Kong-Zhuhai-Macau bridge – HK
Boundary Crossing Facilities. Feb 2014
(HY/2010/02)*



*Tseung Kwan O - Lam Tin Tunnel
Road P2 and Associated Works,
April 2019 (NE/2015/02)*

Our Service

- ❑ Assist in consolidation design
- ❑ Supply of band drain
- ❑ Conformance test
- ❑ Installation to specific site
- ❑ Vacuum consolidation
- ❑ Customized fabrication



Ground consolidation treatment



*Telescopic rig operation under flyover,
14m installation with head clearance of 8m.*



*Telescopic rig operation under
power lines, 18 m installation
with 12 m head clearance.*

PVD ver. 9 May 2026