



“Timbering” literally means covering with wood or stone. This technique has been used for ages in mining, where trenches are excavated in stages and the ground is supported by concrete panels that are held in place and aligned to each other by steel shores.



Execution

The timbered trench method involves manual excavation of a trench in the ground. The trench walls are continuously supported by small prefab concrete panels secured by struts to prevent the trench walls from collapsing. Timbered trenches have a narrow width of generally 0.90 to 1.00 m and therefore the excavated soil needs to be brought to the surface by a bucket.



Advantages

- Timbered trenches can be excavated from galleries or under railway tracks which can be kept in service.
- Almost no loss of space in an excavation.
- Building of a new wall underneath an existing wall.
- Deep excavation is possible down to groundwater level.
- Flexibility of execution.

