

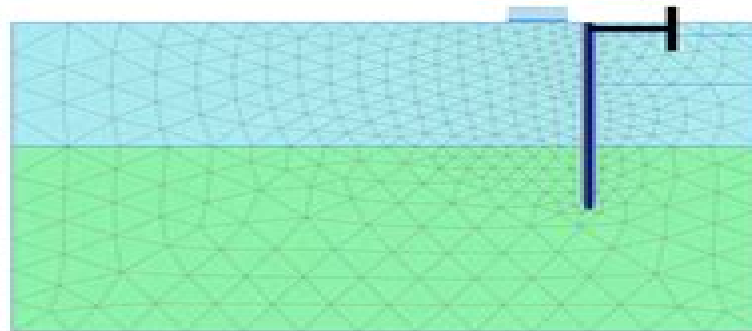


Figure 2.7 The generated mesh

2.3 CALCULATIONS

In practice, the construction of an excavation is a process that can consist of several phases. First, the wall is installed to the desired depth. Then some excavation is carried out to create space to install an anchor or a strut. Then the soil is gradually removed to the final depth of the excavation. Special measures are usually taken to keep the water out of the excavation. Props may also be provided to support the retaining wall.

In PLAXIS, these processes can be simulated with the *Staged construction* loading type available in the *General* subtree of the *Phases* window. It enables the activation or deactivation of weight, stiffness and strength of selected components of the finite element model. Note that modifications in the *Staged construction* mode of the program are possible only for this type of loading. The current tutorial explains the use of this powerful calculation option for the simulation of excavations.

- Click on the *Staged construction* tab to proceed with the definition of the calculation phases.
- The initial phase has already been introduced. Keep its calculation type as *K0 procedure*. Make sure all the soil volumes are active and all the structural elements and load are inactive.

Phase 1: External load

- In the *Phases explorer* click the *Add phase* button to introduce a new phase.
- The default settings are valid for this phase. In the model the full geometry is active except for the wall, interfaces, strut and load.
- Click the *Select multiple objects* button in the side toolbar. In the appearing menu point to *Select line* and click on the *Select plates* option (Figure 2.8).
- In the drawing area define a rectangle including all the plate elements (Figure 2.9).
- Right-click the wall in the drawing area and select the *Activate* option from the appearing menu. The wall is now visible in the color that is specified in the material dataset.
- Right-click the distributed load to activate it and select the *Activate* option from the

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