

# SupportIT: Getting Started

Start **SupportIT** by selecting: **Start** ► **Programs** ► **GTSoft** ► **SupportIT**



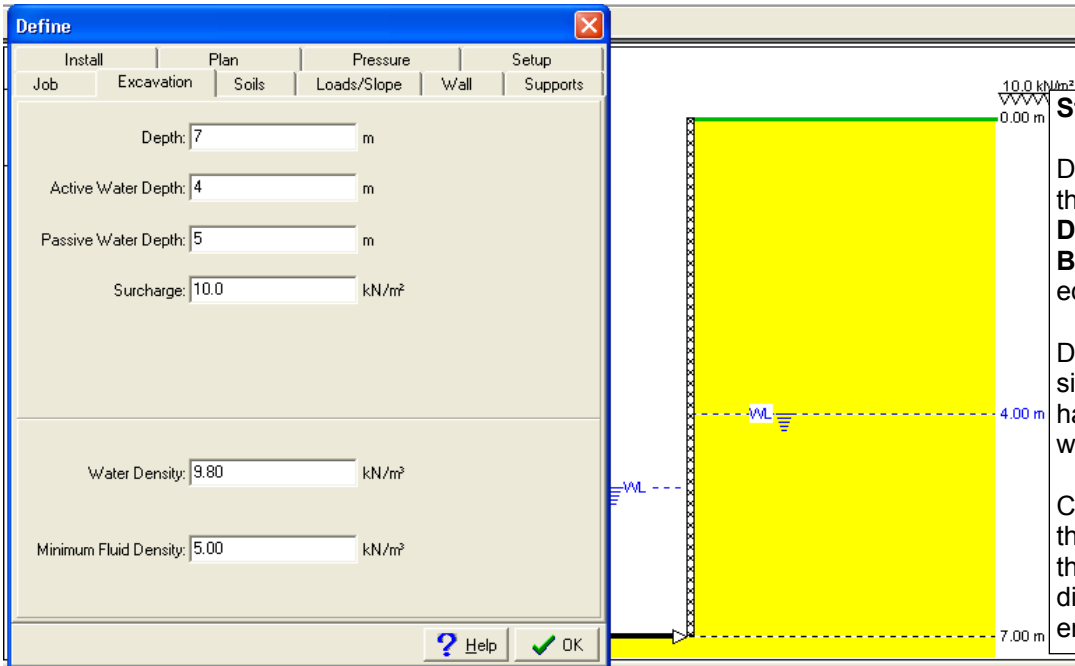
Select the **Help** button, or press the **F1** key on your keyboard at any time to view the online **Help** file.



Click the **New** button on the toolbar to open the main design window.



Follow the instructions below to see how easy it is to create a design:

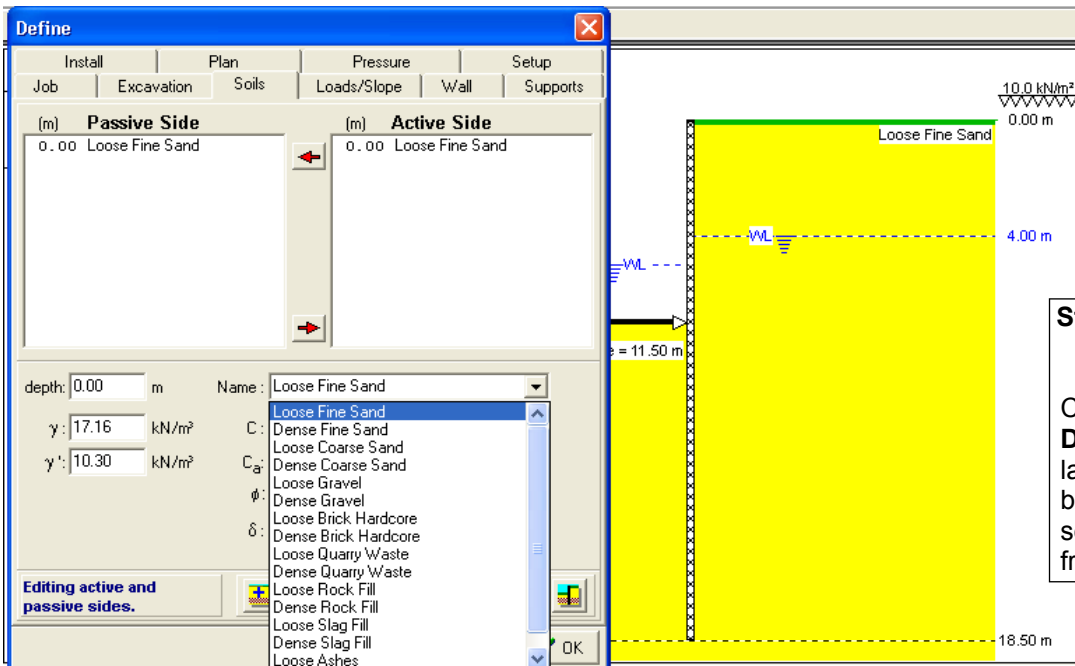


**Step 1: Open Define Box.**

Double-click anywhere in the main window to open the **Define Box**. The **Define Box** is used to create and edit your design.

Drag the **Define Box** to the side to let you see what is happening in the main window.

Click the **Excavation** tab of the **Define Box**, and make the entries shown. The main diagram changes after each entry is made.



**Step 2: Select top soil layer.**

Click the **Soils** tab of the **Define Box** to define soil layers. Click the arrow beside the **Name** box and select **Loose Fine Sand** from the drop-down list.

**Step 3: Add new soil layer.**

Click the **Add Layer** button to add another soil layer.

Enter **4.0** in the **Depth** box, then click the arrow beside the **Name** box and select **Dense Fine Sand** from the drop-down list.

Click the **Apply** button to add the new layer to your design.

**Step 4: Define the wall.**

Click the **Wall** tab of the **Define Box** to define wall properties and calculation methods.

Select **Sheet Pile Wall** in the **Type** box.

Click the arrow beside the **Name** box and select **Larssen 6W** from the drop-down list.

Select **Net Pressure** and **Free Earth**.

**Step 5: Define supports.**

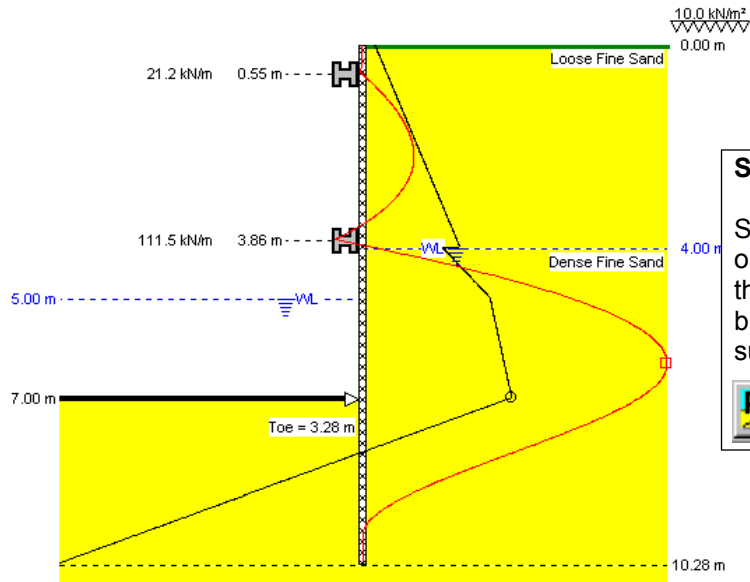
Click the **Supports** tab of the **Define Box** to define support types and positions.

Click the **Find Supports** button to let **SupportIT** find the support positions for you. Click **Yes** when asked if you want to remove any existing supports.

Double click any support on the main diagram to open the **Define Box** at the **Supports** page again. You can edit the calculated support positions in the **Frames** grid at the top left.

Page: 1  
 Date: 25.11.02  
 Sheet: Larssen 6W  
 Works: Temporary  
 Pressure: Rankine.  
 Analysis: Net Pressure  
 Toe: Free Earth Support

Maximum	d (m)
○ 39.8 kN/m <sup>2</sup>	7.00
□ 93.3 kN/m	6.29



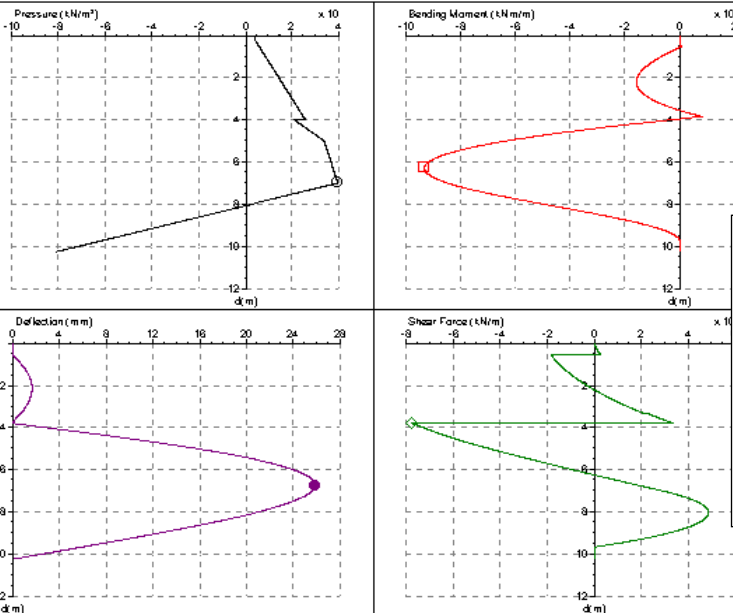
**Step 6: Toolbar.**

Superimpose various items on the main diagram using the toolbar buttons. Click a button again to remove the superimposed item.



Page: 3  
 Date: 25.11.02  
 Sheet: Larssen 6W  
 Works: Temporary  
 Pressure: Rankine.  
 Analysis: Net Pressure  
 Toe: Free Earth Support

Maximum	d (m)
○ 39.8 kN/m <sup>2</sup>	7.00
□ 93.1 kN/m	6.29
◇ 77.6 kN/m	3.86
● 25.9 mm	6.78



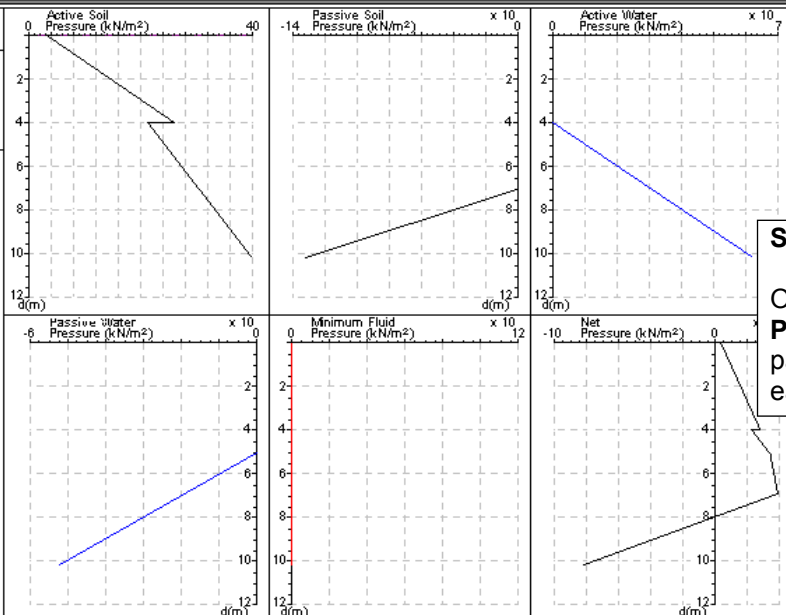
**Step 7: Change view.**

Vary the view using the tabs above the main window.

Open the **Graphs** page to view Pressure, Bending Moment, Deflection and Shear Force graphs.

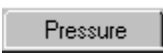


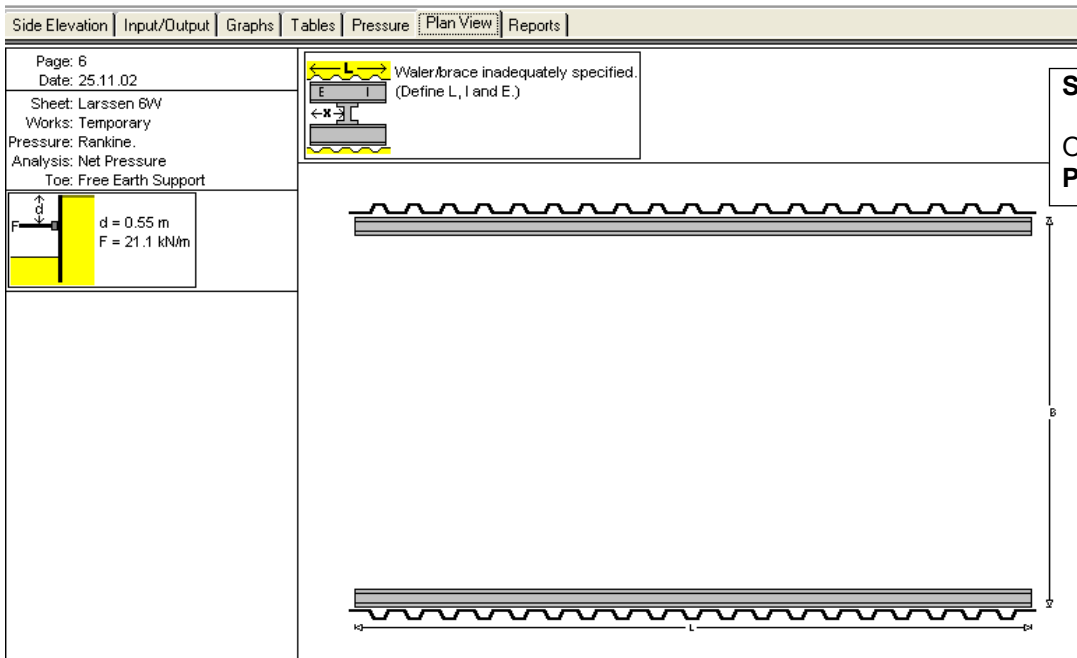
Page: 5  
 Date: 25.11.02  
 Sheet: Larssen 6W  
 Works: Temporary  
 Pressure: Rankine.  
 Analysis: Net Pressure  
 Toe: Free Earth Support



**Step 8: Pressure page.**

Open the **Pressure** page to view graphs of each pressure component.

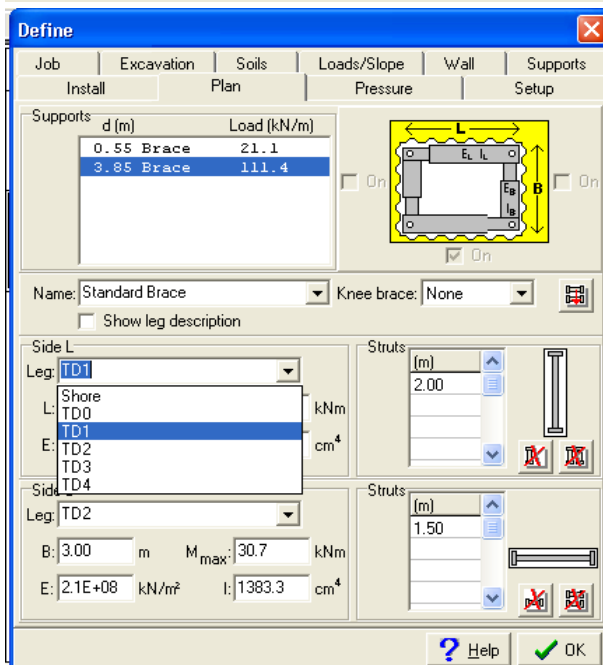




### Step 9: Plan View.

Open the Plan View.

Plan View



### Step 10: Plan view.

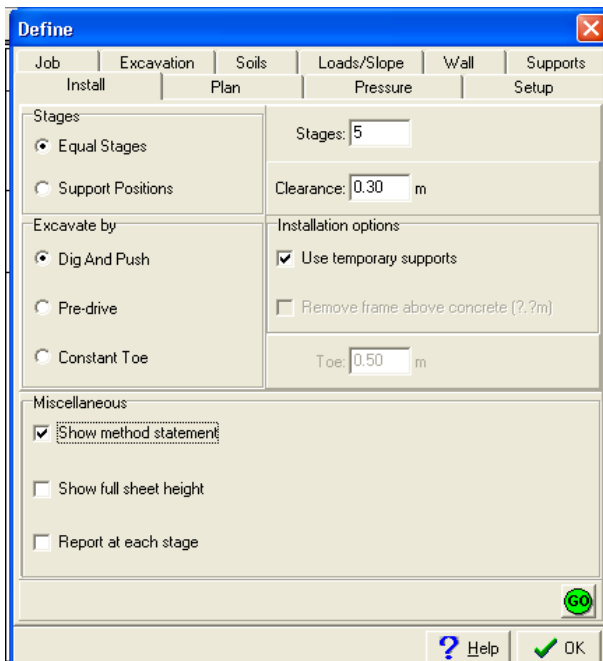
Double click in the main window to open the Define Box at the Plan page.

Select any brace and leg sizes from the drop-down lists by clicking the arrows beside the Name and Leg boxes.

Enter 4.0 and 3.0 in the L and B boxes.

Additional struts may be defined using the Struts grids.

The toolbar buttons display reactions, bending moment, etc.



### Step 11: Installation.

Change the main window view to Side Elevation.

Side Elevation

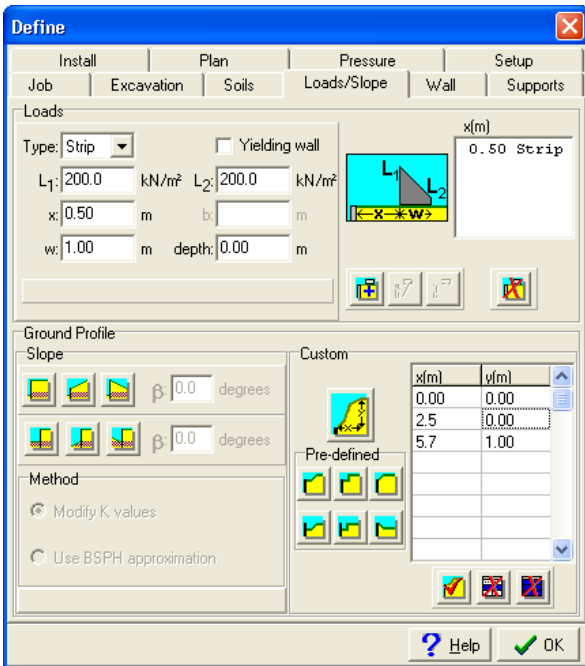
Double click on the main window to open the Define Box and select the Install page. Select Equal Stages and Dig And Push.

Click the Go button.



Use the controls above the main window to move through the installation stages:





## The Define Box

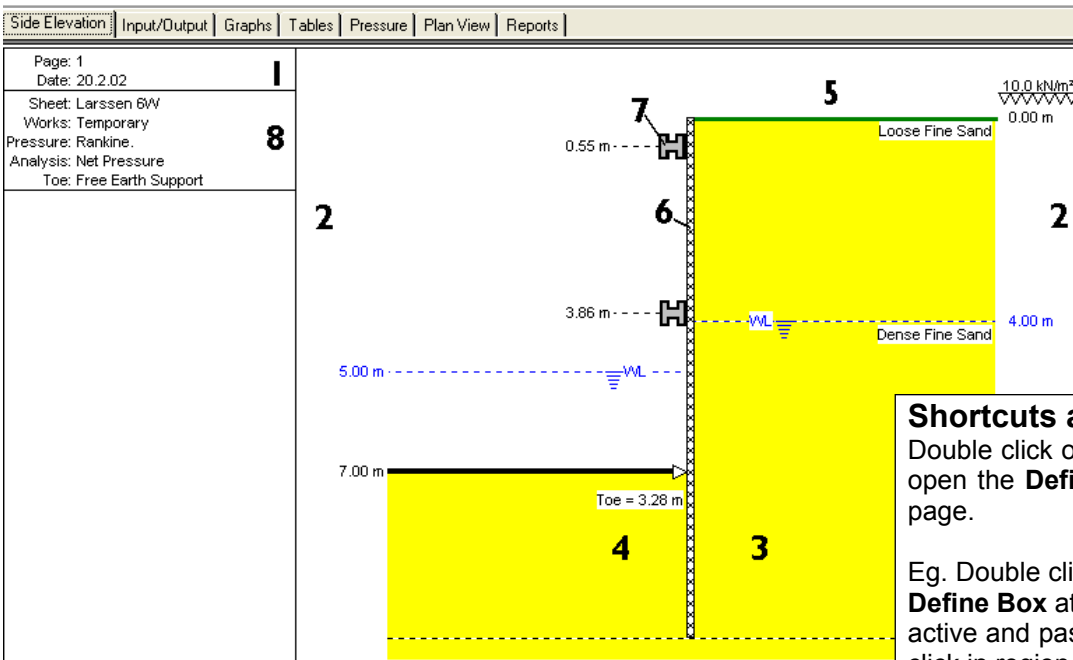
The **Define Box** pages are explained in greater depth in the **SupportIT** manual and the online **Help**, including those not mentioned in this brief introduction:

The **Job** page is used to enter customer details.

The **Loads/Slope** page is used to define surcharge loads and sloping or irregular ground.

The **Pressure** page is used to select the pressure model being used, or enter manually calculated pressure values.

The **Setup** page is used to enter user contact details, select units and set other various display options. It is also used to quickly reset some common calculation options.



### Shortcuts and Screen Hotspots

Double click on the indicated hotspots to open the **Define Box** at the appropriate page.

Eg. Double click region **3** to open the **Define Box** at the **Soils** page for editing active and passive side soils. Double click in region **4** to open the **Define Box** at the **Soils** page for editing the passive side only.

Read the online **Help** file or the **SupportIT** manual for more information on using **SupportIT**.

For further details or assistance, see [www.GTSoft.org](http://www.GTSoft.org) or email:

[Info@GTSoft.org](mailto:Info@GTSoft.org)