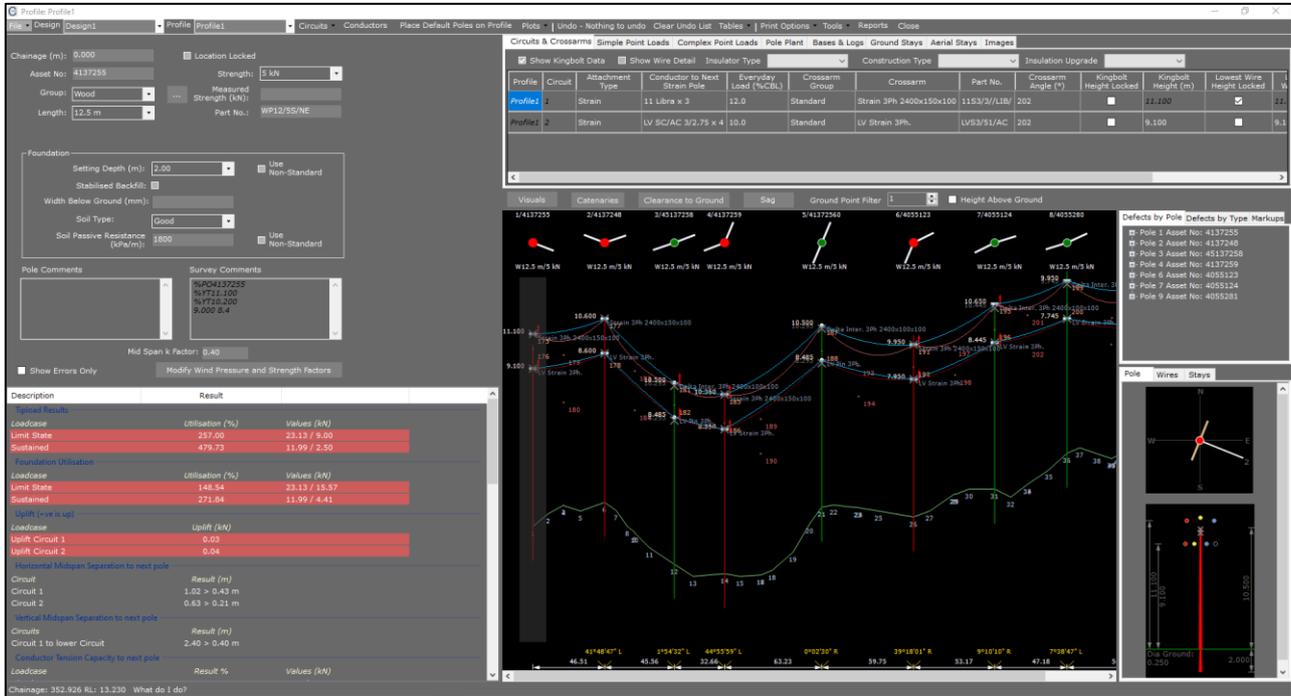


COLDNet Profile – Plot Curves & Clearance to Ground



1. Open the earlier project that we created called **WalkthroughCSVImport**
2. Select **File>Save As** and give the new project the name **PlotCurvesAndClearanceToGround**
3. Once returned to the main form select the **Profiles** option from the top toolbar menu. A new window will open



4. We are now going to add in a user plot curve for the Everyday Temperature by first selecting the button **Catenaries** above the elevation view drawing. A new window will open

Modify Catenary Display Profile: Profile1

Add Curve Remove Curve Close

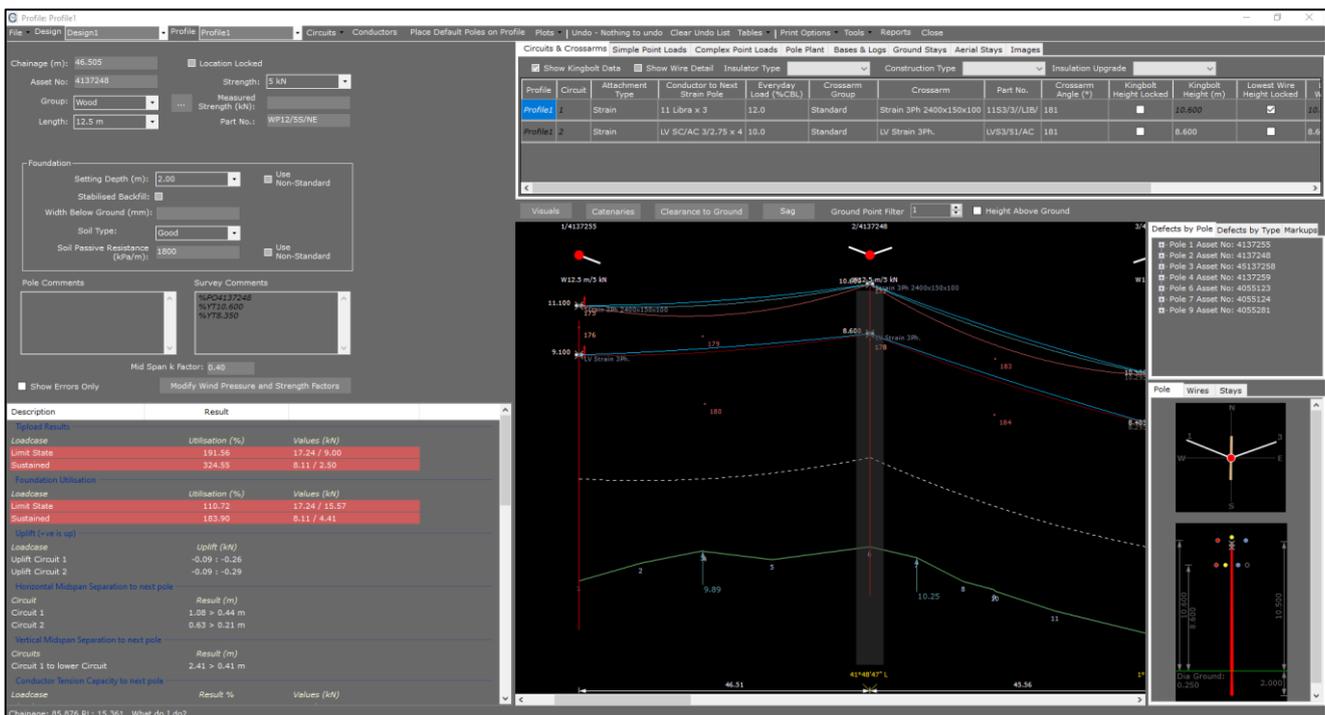
Circuit 1 | Circuit 2

| Description | Colour | Clearance Colour | Show Minimum Clearance in Span | Show Curve | Show Clearance Curve | Clearance (m) | Temperature (°C) | Radial Thickness Ice/Snow (mm) | Density Ice/Snow (kg/m³) |
|------------------|--------|------------------|--------------------------------|-------------------------------------|--------------------------|---------------|------------------|--------------------------------|--------------------------|
| Max. Temperature | Red | Yellow | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | |
| Min. Temperature | Blue | Yellow | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | |

COLDNet Profile – Plot Curves & Clearance to Ground



5. Select **Add Curve**. A new row will appear in the grid
6. Enter the **Description “Everyday Temperature”**
7. Select a colour for the catenary curve
8. Select **Show Minimum Clearance in Span**
9. Select **Show Curve**
10. Enter a **Temperature of ‘15’**
11. Enter a **Radial Thickness Ice/Snow of ‘0’**
12. Enter a **Density Ice/Snow of ‘0’**
13. Under the **Max Temperature** curve for **Circuit 1 22kV Libra** we are going to select the option **Show Curve**
14. Enter in a **Clearance** value of **‘7’**
15. Select **Close** at the top right-hand corner of the window. The new user filter plot curve for the conductor on circuit 1 operating at the everyday temperature will be displayed.



16. Clearance curves can be displayed for each of the user plot curves under the catenaries form but you may prefer to show the clearance as an offset from the ground. To do this select the option **Clearance to Ground** and a new window will open
17. Next select the option **Clearance to Ground** and a new window will open

COLDNet Profile – Plot Curves & Clearance to Ground



The screenshot shows the 'Profile Profile' software interface. On the left, there are input fields for Chainage (46.505), Asset No (4137248), Group (Wood), Length (12.5 m), Strength (5 kN), Measured Strength (kN), Part No. (WP12/SS/NE), Foundation (Setting Depth: 2.00, Stabilised Backfill, Width Below Ground, Soil Type: Good, Soil Passive Resistance: 1800), Pole Comments, and Survey Comments. Below these are 'Description' and 'Result' tables for Loadcase, Foundation Utilisation, Uplift, and Circuits.

The main window displays a profile view with a table of profiles:

| Profile | Circuit | Attachment Type | Conductor to Next Strain Pole | Everyday Load (%CBL) | Crossarm Group | Crossarm | Part No. | Crossarm Angle (°) | Kingbolt Height Locked | Kingbolt Height (m) | Lowest Wire Height Locked | Lowest Wire Height (m) |
|-----------|---------|-----------------|-------------------------------|----------------------|----------------|-------------------------|------------|--------------------|------------------------|---------------------|---------------------------|------------------------|
| Profile 1 | Strain | Strain | 11 Libra x 3 | 12.0 | Standard | Strain 3PH 2400x150x100 | 11S3/3/LIB | 181 | | 10.600 | | 20.0 |
| Profile 2 | Strain | Strain | LV SC/AC 3/2.75 x 4 | 10.0 | Standard | LV Strain 3PH | LVS3/S1/AC | 181 | | 8.600 | | 8.6 |

The 'Clearance to Ground' dialog box is open, showing 'Add Clearance' and 'Remove Clearances' buttons, a 'Show Ground Clearance' checkbox, and a 'Colour' field set to green. The main profile view shows a vertical pole with wires sagging between it and an adjacent pole. A new clearance point is being added at a chainage of 0m with a clearance of 7m.

18. Select **Add Clearance**. A new row in the grid will appear at a **Chainage of 0m**. Enter a **Clearance of '7'**
19. Add another clearance at a **Chainage of 10m** and a **Clearance of '6'**
20. Add a third clearance at a **Chainage of 30m** and a **Clearance of '7'**
21. Select **Save**. The profile elevation view should look the same as below

This screenshot shows the same software interface as above, but with three clearances added to the profile. The 'Clearance to Ground' dialog box is still open, showing the 'Add Clearance' button. The main profile view shows the vertical pole with three green dashed lines representing clearances at chainages 0m, 10m, and 30m. The 'Description' and 'Result' tables are also visible, showing the same data as in the previous screenshot.