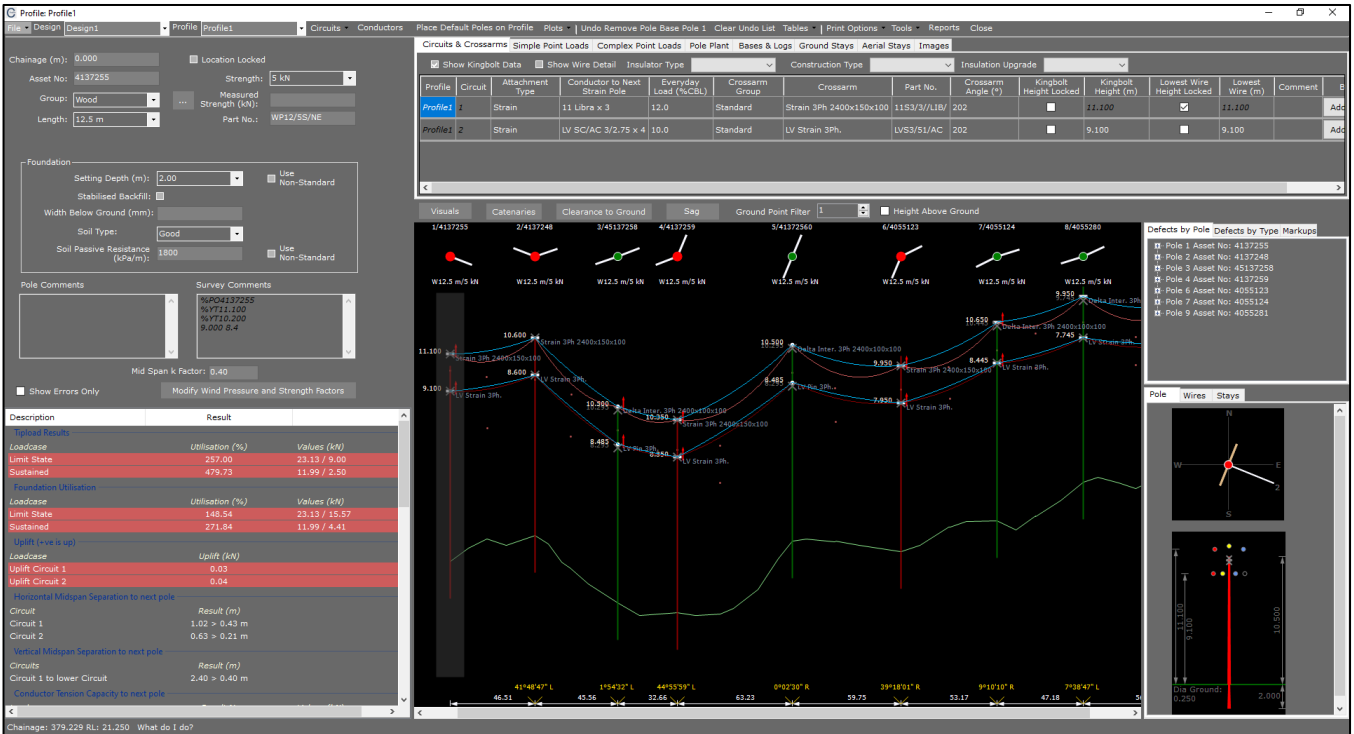


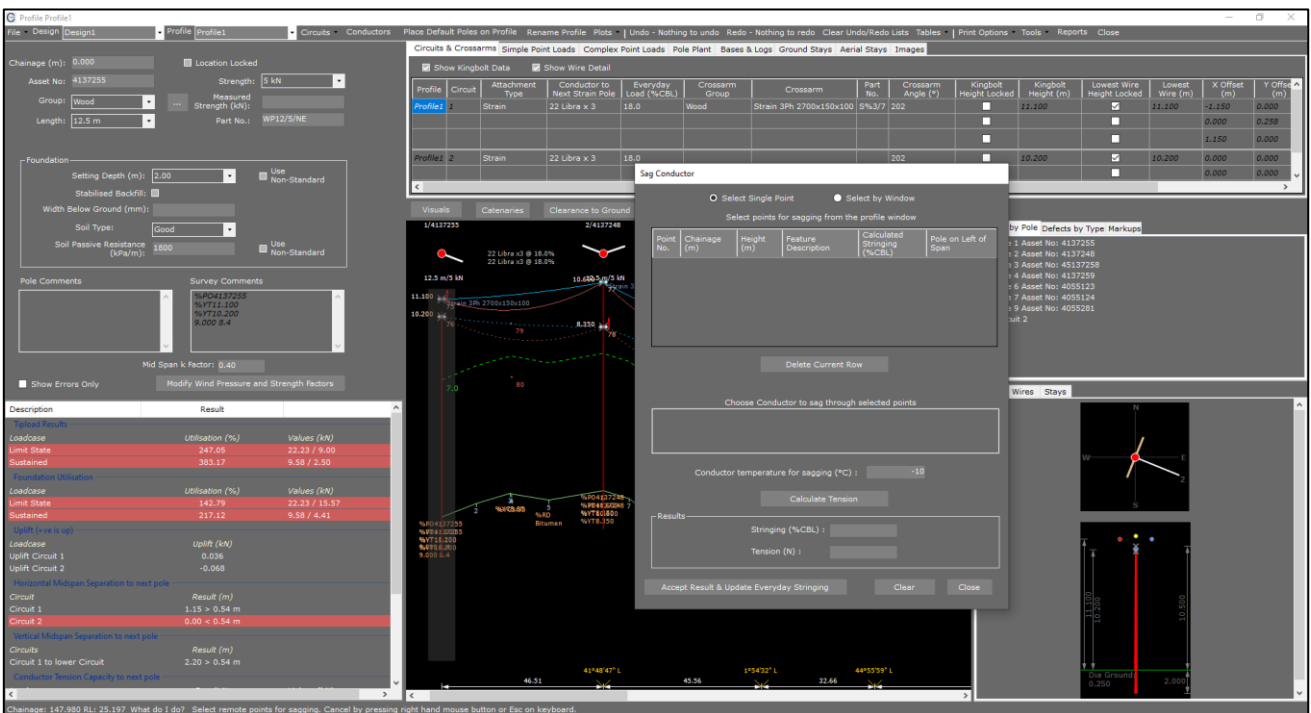
COLDNet Profile – Sagging Conductor



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



4. Make sure under **Visuals>Point No.'s** is turned on. You should then be able to see the aerial points between Poles 1 & 2 that have been collected during the survey marked as point no.'s "179" & "180".
5. We are now going to sag Circuit 1 through the aerial point no. "179"
6. Select the option **Sag**. The following window will open



COLDNet Profile – Sagging Conductor

- There are two options available to select the aerial points for sagging the conductor, either **Select Single Point** or **Select by Window**. For this example we are going to **Select Single Point** by left mouse-clicking on point no. “179” on the elevation view. The point will then appear in the table of our open window. Aerial points can be removed by selecting **Delete Current Row**
- Next, select the circuit and conductor to sag through the selected aerial points. Select “**Level 1 : Libra x3**”
- Enter a **Conductor Temperature for Sagging of “30”**
- Select **Calculate Tension**. This will generate a new **Stringing** value and a new **Tension** as seen below

Sag Conductor

Select Single Point Select by Window

Select points for sagging from the profile window

Point No.	Chainage (m)	Height (m)	Feature Description	Calculated Stringing (%CBL)	Pole on Left of Span
179	19.798	8.650	Aerial	2.6	0

Delete Current Row

Choose Conductor to sag through selected points

Level 1 : Libra x3
 Level 2 : SC/AC 3/2.75 x4

Conductor temperature for sagging (°C) :

Calculate Tension

Results

Stringing (%CBL) :

Tension (N) :

- If you’re happy with the new results and want to update your design select **Accept Results & Update Everyday Stringing**. The design will have updated in the background. Select **Close** to see the new sagging of the conductor for Circuit 1. This process can be repeated for each of the attachments on the circuits.

Category	Item	Result	Value
Load Case	Utilisation (%)	Values (kN)	
	Limit State	197.80	17.80 / 9.00
	Sustained	378.46	9.39 / 2.50
Foundation Utilisation	Utilisation (%)	Values (kN)	
	Limit State	114.32	17.80 / 15.57
	Sustained	212.75	9.39 / 4.41
Uplift (kN)	Uplift Circuit 1	-0.01	
	Uplift Circuit 2	0.04	
Horizontal Midspan Separation to next pole	Circuit 1	Result (m)	1.02 > 0.53 m
	Circuit 2	Result (m)	0.63 > 0.21 m
Vertical Midspan Separation to next pole	Circuit 1 to lower Circuit	Result (m)	2.40 > 0.60 m
	Load Case	Result (%)	Values (kN)