

Note: The disclaimer on the first worksheet applies to all tables in this workbook

| | | | |
|---|----------------------------|----------------|-------------|
| Rig Manufacturer : | Soilmec | Rig Type : | SR-95 4838 |
| Completed by: Foundation Piling Limited (ABM) | Operation mode: 10/04/2017 | Cfa(4) 26+8.5m | Checked by: |

Main Components :

| | Item | Mass (kg) | Moment arm (m) | Moment (kNm) |
|--|-------------------|-----------|----------------|--------------|
| UPPER WORKS | Mast Assembly | 18900 | 3.53 | 654.49 |
| | Mast Rams | 5240 | 1.84 | 94.58 |
| | | | | 0.00 |
| | | | | 0.00 |
| | | | | 0.00 |
| | | | | 0.00 |
| | | | | 0.00 |
| LOWER WORKS | Undercarriage | 26000 | 0.00 | 0.00 |
| | Slewing Mainframe | 21220 | -0.83 | -172.78 |
| | | | | 0.00 |
| | | | | 0.00 |
| ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT | Rotary Table | 6645 | 4.30 | 280.31 |
| | Augers | 8000 | 4.50 | 353.16 |
| | Pole | 2250 | 4.65 | 102.64 |
| | Cleaner | 1650 | 4.31 | 69.76 |
| | Hoses | 1370 | 5.36 | 72.04 |
| COUNT. | Counterweight | 15100 | -4.11 | -608.82 |
| | | | | 0.00 |
| | | | | 0.00 |
| OTHER | None | 0 | 0.00 | 0.00 |
| | | | | 0.00 |
| | | | | 0.00 |

Main Components Totals

| | | | |
|--|---------------|-------------|---------------|
| UPPER WORKS | 24140 | 3.16 | 749.08 |
| LOWER WORKS | 47220 | -0.37 | -172.78 |
| ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT | 19915 | 4.49 | 877.90 |
| COUNTERWEIGHT | 15100 | -4.11 | -608.82 |
| OTHER | 0 | 0.00 | 0.00 |
| TOTAL | 106375 | 0.81 | 845.38 |

Tracks

| | |
|--|------|
| Track bearing length (m) | 4.69 |
| Track pad width (m) | 0.9 |
| Distance between centrelines of tracks (m) | 3.80 |

Front Foot Pads

| | | | |
|------------------------------------|--------|-------------------|---------------|
| Pad Bearing Area (m ²) | 2.40 | Actual Dimensions | 2.10m x 1.65m |
| Pad Maximum Loading (kN) | 940.00 | Actual Shape | Rectangular |
| Pad Moment Arm (m) | 3.40 | | |

Rear Foot Pads

| | | | |
|------------------------------------|------|-------------------|------|
| Pad Bearing Area (m ²) | 0.00 | Actual Dimensions | None |
| Pad Maximum Loading (kN) | 0.00 | Actual Shape | None |
| Pad Moment Arm (m) | 0.00 | | |

Forces


| | | | |
|--------------------------------|--------|--------------------------------|------|
| Maximum Extraction Force (kN) | 885.00 | | |
| Maximum Penetration Force (kN) | 0.00 | | |
| Maximum Auxillary Force (kN) | 132.00 | Auxillary Force Moment Arm (m) | 5.07 |

Notes

No crowd. Set for maximum drilling radius of 4.5m.

Note: The disclaimer on the first worksheet applies to all tables in this workbook



| Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures | | | | |
|--|------------------------------|---|---|-----------------------|
| Rig Manufacturer : | | Soilmec | | Rig Type : SR-95 4838 |
| | | Operation mode: | | Cfa(4) 26+8.5m |
| Completed by: Foundation Piling Limited (ABM) | | 10/04/2017 | | Checked by: 0 |
| Item | Mass (kg) | Moment arm (m) | Moment (kNm) | |
| UPPER WORKS | 24140 | 3.16 | 749.08 | |
| LOWER WORKS | 47220 | -0.37 | -172.78 | |
| ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT | 19915 | 4.49 | 877.90 | |
| COUNTERWEIGHT | 15100 | -4.11 | -608.82 | |
| OTHER | 0 | 0.00 | 0.00 | |
| TOTAL | 106375 | 0.81 | 845.38 | |
| Tracks | | | | |
| Track bearing length (m) | 4.69 | | | |
| Track pad width (m) | 0.9 | | | |
| Distance between centrelines of tracks (m) | 3.8 | | | |
| Front Foot Pads | | | | |
| Pad Bearing Area (m ²) | 2.40 | Actual Dimensions | 2.10m x 1.65m | |
| Pad Maximum Loading (kN) | 940.00 | Actual Shape | Rectangular | |
| Pad Moment Arm (m) | 3.40 | | | |
| Rear Foot Pads | | | | |
| Pad Bearing Area (m ²) | 0.00 | Actual Dimensions | None | |
| Pad Maximum Loading (kN) | 0.00 | Actual Shape | None | |
| Pad Moment Arm (m) | 0.00 | | | |
| Forces | | | | |
| Maximum Extraction Force (kN) | 885.00 | | | |
| Maximum Penetration Force (kN) | 0.00 | | | |
| Maximum Auxillary Force (kN) | 132.00 | Auxillary Force Moment Arm (m) | 5.07 | |
| Pressure Summary for Platform Design (unfactored) | | | | |
| MODE | BRE LOAD CASE (1 or 2) | Length (m) | Width (m) | UDL Pressure (kPa) |
| Standing | 1 | 3.29 | 0.9 | 214 |
| Travelling | 1 | 3.29 | 0.9 | 214 |
| Handling | 1 | 2.46 | 0.9 | 356 |
| Penetrating | 2 | 3.29 | 0.9 | 214 |
| Extracting | 2 | 2.75 | 0.9 | 248 |
| Other | NOT USED | N/A | 0.9 | N/A |
| MODE | WARNING MESSAGES | ERROR MESSAGES FOR FORCES | | |
| Standing | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| Travelling | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| Handling | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| Penetrating | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| Extracting | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| Other | None | Auxiliary Line Force OK | Extraction Force OK | Penetration Force OK |
| MODE | ERROR MESSAGES FOR FOOT PADS | | Notes | |
| Standing | Front Foot Pad Force OK | Rear Foot Pad Force OK | Only for rig operation on level ground with a vertical mast, unless noted below ! | |
| Travelling | Front Foot Pad Force OK | Rear Foot Pad Force OK | Only for use where the rig is working on a ground supported platform ! | |
| Handling | Front Foot Pad Force OK | Rear Foot Pad Force OK | Foot pad pressures are adjusted to equalise with the track pressures ! | |
| Penetrating | Front Foot Pad Force OK | Rear Foot Pad Force OK | Rigs to be operated in accordance with manufacturer's & employer's instructions | |
| Extracting | Front Foot Pad Force OK | Rear Foot Pad Force OK | No crowd. Set for maximum drilling radius of 4.5m. | |
| Other | Front Foot Pad Force OK | Rear Foot Pad Force OK | | |
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