



## COMPARISON of GRLWEAP14 FEATURES

GRLWEAP 14 Versions (highlight is for Advanced only)

Main Features	Professional	Advanced
<b>Hammer database:</b>		
Number of Hammer Available	>1050	>1050
Allows to create own hammer database files and keep the files at any location	V	V
Import from multiple files	V	V
Manufacturer's suggested driving system	V	V
<b>Geotechnical Static Analysis Tools:</b>		
<b>ST</b> – Simple Soil Type based method	V	V
<b>SA</b> - SPT N-value and soil-type based method extended to allow for input of friction angle and/or unconfined compressive strength	V	V
<b>CPT</b> – CPT based method by Schmertmann, 1978	V	V
<b>FHWA/Driven</b> method was based on the recommendation of FHWA to use both Tomlinson and Nordlund static analysis methods	V	V
<b>API</b> – method based on the API code (1993)		V
<b>API2</b> – method based on API (2007)		V
<b>A&amp;H</b> - method based on the theory proposed by Alm & Hamre (2001) using CPT data		V
Input single large soil layer without loss of accuracy	V	V
Option for improved treatment of end bearing at soil layer interfaces considering soil strength values above and below the pile toe location.	V	V
<b>Pile/Soil Model Creation/Input</b>		
Standard Pile Build features to help built non uniform pile and allow export and import user generated pile profiles	V	V
<b>Advanced Pile Builder features (multiple add-ons)</b>		V
Area Calculator	V	V
Non uniform piles	V	V
Pile inclination	V	V
<b>Soil column weight</b>		V
Two pile	V	V
No restriction on the number of computational pile model segments	V	V
Allow unlimited lines of soil data input	V	V
<b>Other Input</b>		
A comprehensive input wizard to include all necessary input parameters for all types of analysis and checks	V	V
Multiple hammer analysis for Bearing Graph and IC	V	V
<b>Multiple impact hammers for driveability analysis</b>		V



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No restriction of analysis depth values for expanded driveability analysis capabilities.	V	V
Import hammer data to the list in the program from different files and locations.	V	V
Hammer override	V	V
Quick Review feature to display analysis result summary during input generation	V	V
<b>Analysis Option</b>		
Bearing Graph	V	V
Driveability	V	V
Inspector's chart	V	V
Residual Stress Analysis	V	V
Alternate Hammer Location		V
<b>Friction Fatigue Analysis:</b>		
GRLWEAP friction fatigue		V
Alm and Hamre (A&H) Friction Fatigue Method		V
<b>Output</b>		
Standard report for analyses of Bearing Graph, Driveability and Inspector's chart	V	V
Variable vs. time for analyses of Bearing Graph, Driveability and Inspector's chart	V	V
Bending Stresses		V
Tables for pile material Fatigue Analysis		V
Customize report styles including graphical and numerical contents		V
Data sharing (copy/paste) with other applications such as Excel for all output features	V	V
Shaft resistance distribution graph (SRD) showing both LTSR and SRD unit shaft resistance	V	V
Friction fatigue unit shaft resistance distributions a graph (FF) for all analyzed analysis depths		V