

Comparison of GRLWEAP14 Features Professional vs. Offshore (Highlight is for Offshore only)

Main Features	Professional	Offshore
Hammer database:	•	
Number of Hammer Available	>1050	>1050
Allows to create own hammer database files and keep the	V	V
files at any location		
Import from multiple files	V	V
Manufacturer's suggested driving system	V	V
Geotechnical Static Analysis Tools:		
ST – Simple Soil Type based method	V	V
SA - SPT N-value and soil type based method extended to	V	V
allow for input of friction angle and/or unconfined		
compressive strength		
CPT – CPT based method by Schmertmann, 1978	V	V
FHWA/Driven method was based on the recommendation of	V	V
FHWA to use both Tomlinson and Nordlund static analysis		
methods		
API – method based on the API code (1993)		V
API2 – method based on API (2007)		V
A&H - method based on the theory proposed by Alm &		V
Hamre (2001) using CPT data		
Input single large soil layer without loss of accuracy	V	V
Option for improved treatment of end bearing at soil layer	V	V
interfaces considering soil strength values above and below		
the pile toe location.		
Pile/Soil Model Creation/Input		
Standard Pile Build features to help built non uniform pile and	V	V
allow export and import user generated pile profiles		
Advanced Pile Builder features (multiple add-ons)		V
Area Calculator	V	V
Non uniform piles	V	V





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egments	
llow unlimited lines of soil data input V	V
ther Input	
comprehensive input wizard to include all necessary input V	V
arameters for all types of analysis and checks	N/
Multiple hammer analysis for Bearing Graph and IC V	V
1ultiple impact hammers for driveability analysis	V
o restriction of analysis depth values for expanded V	V
riveability analysis capabilities. nport hammer data to the list in the program from different V	N/
nport hammer data to the list in the program from different V les and locations.	V
ammer override V	V
uick Review feature to display analysis result summary V	V
uring input generation	V
uring input generation	
nalysis Option	
earing Graph V	V
riveability	V
nspector's chart V	V
esidual Stress Analysis V	V
Iternate Hammer Location	V
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riction Fatigue Analysis:	,
RLWEAP friction fatigue	V
Im and Hamre (A&H) Friction Fatigue Method	V
utput	
tandard report for analyses of Bearing Graph, Driveability V	V
nd Inspector's chart	•
ariable vs. time for analyses of Bearing Graph, Driveability V	V
nd Inspector's chart	-
ending Stresses	V
ables for pile material Fatigue Analysis	V



Quality Assurance for Deep Foundations

Customize report styles including graphical and numerical		V
contents		
Data sharing (copy/paste) with other applications such as	V	V
Excel for all output features		
Shaft resistance distribution graph (SRD) showing both LTSR	V	V
and SRD unit shaft resistance		
Friction fatigue unit shaft resistance distributions a graph (FF)		V
for all analyzed analysis depths		