

FALLING WEIGHT DEFLECTOMETERS PRE-CALIBRATION CHECKLIST

Fill out and send this checklist to the calibration centre at least one day prior to the calibration date. Your signature below indicates that you have met all of the pre-calibration requirements.

FWD Operator: _____

FWD Manufacturer / Serial/ID Number: _____

FWD Owner: _____

- Client is to supply a purchase order for the calibration of the FWD to the MRWA, Materials Engineering Branch, Calibration Officer prior to the commencement of the FWD Calibration. If the Purchase Order is not received before or on the day of calibration, the calibration will not commence and be required to be rescheduled.
 - Inspect all connections, fittings, and cables. Repair or replace those which are damaged.
 - Ensure that your load plate swivel is properly lubricated, if applicable, all bolts are tight. Refer to equipment manual for instructions. Assure that the load plate has 300mm diameter. Remove the rear sensor extension bar if it is currently installed.
 - Remove, clean and inspect all deflection sensors and signal cables prior to calibration. Remove any stones that may be imbedded in the rubber base under the load plate.
 - Provide a USB thumb drive for transfer of the FWD data to the Calibration Centre computer.
 - Store your operating manuals in the FWD vehicle, incase of any unforeseen problems.
 - Check the integrity of all batteries with a hydrometer or load tester. Check battery terminals for corrosion and clean if necessary.
 - Check hydraulic fluid level(s) and assure that they are at the proper Fill point. Inspect the hydraulic system for any leaks. (The hydraulics should be bled on a regular basis to reduce noise in the system)
 - Verify that the proper testing setups are programmed into the FWD software for both Reference and relative calibration. Name and save the setup files.
Adjust or calibrate the FWD to achieve the target levels within ± 10 percent.
 - Dynatest FWD US Customary (lbs) 6, 9, 12 and 16 Metric (kN) 27, 40, 53 and 72
 - JILS FWD US Customary (lbs) 9, 12, 15 and 18 Metric (kN) 40, 53, 67 and 80
- Generator Revs _____ Geophone Pressure (psi) _____
- Load Cell Pressure (at Calibration) (psi) _____ Load Cell Pressure (Field Testing) (psi) _____
- Turn off any filtering (smoothing) in the FWD Operating System. Have data files and/or hardcopies from the previous calibration(s) available

Operator's signature: _____ DATE: _____