

Use this checklist to verify that sensor systems on construction fleet vehicles are correctly specified, calibrated, and compliant with FORS Silver v7 and CLOCS v5 requirements.

1. Mandatory Sensor Equipment (Rigid HGV >7.5t)

- ☐ Nearside proximity sensor fitted with audible alert
- ☐ MOIS front detection system fitted — mandatory from January 2025
- ☐ Left-turn audible warning with night mute (23:30–07:00) fitted
- ☐ Reversing alarm fitted and operational
- ☐ DVS PSS BSIS fitted if vehicle >12t operating in Greater London
DVS 2024: radar/camera BSIS; ultrasonic alone does NOT comply

2. Nearside Proximity Sensor — Calibration

- ☐ Walk-test completed at calibrated detection distances — documented
- ☐ Sensor does not trigger from vehicle's own body or site fencing
FORS v7 false alert non-compliance definition
- ☐ Detection range adjusted for site environment — not road default 2-3m
Typical site active range: 1.5-2m
- ☐ Sensor calibration re-verified after any body modification

3. MOIS Front Detection — Calibration

- ☐ MOIS active during stationary-to-moving transition and low speed only
- ☐ MOIS does not trigger at road speed from oncoming vehicles or roadside furniture
- ☐ Front detection zone confirmed: approx 2m ahead, nearside and offside
- ☐ MOIS alert tested at simulated departure from queue stop

4. G-Sensor — Tipping Cycle Calibration (Tippers)

- ☐ G-sensor calibrated to exclude tipping cycle vibration signature
- ☐ Tipping cycle tested — no false events generated during body raise/lower
- ☐ Sensitivity threshold set above tipping cycle maximum g-force

- ☐ Genuine road impact events still captured at calibrated threshold
- ☐ Calibration record documented with threshold values used

5. Rear Proximity Sensors

- ☐ Rear sensor placement confirmed for vehicle body geometry
Tipplers: confirm detection with body raised and lowered
- ☐ Caution zone: 1.5-3m — intermittent alert confirmed in walk-test
- ☐ Stop zone: 0-1.5m — continuous alarm confirmed in walk-test
- ☐ Sensor integrates with rear camera — stop-zone trigger switches to full-screen
- ☐ Mixer: detection zone covers area alongside drum body, not just rear face

6. FORS Audit Documentation

- ☐ Walk-test calibration records available for all sensors
- ☐ False alert compliance confirmed — no triggers from own body or environment
- ☐ FORS Silver certificate current — includes this vehicle registration
- ☐ CLOCS v5 compliance confirmed for construction site access