



Compaction Verification Checklist (for pavement)

Pre-Compaction Checks

Verifies conditions are suitable for compaction before equipment is deployed. Includes material checks, weather conditions, and equipment readiness.

Ambient Temperature (°C/°F)

Moisture Content of Material (%)

Material Type Verified?

- ☐ Asphalt
- ☐ Concrete
- ☐ Other

Approved Material Source?

- ☐ Yes
- ☐ No

Weather Conditions

- ☐ Clear
- ☐ Cloudy
- ☐ Rain
- ☐ Windy

Compaction Equipment Verified?

- ☐ Yes
- ☐ No

Equipment Check Notes

Write something...

Initial Compaction (Lift 1)

Evaluates the results of the initial compaction pass for the first layer of pavement. Focuses on achieving target density and moisture content.

Lift Thickness (inches)

Enter a number...

Moisture Content (%) - Initial

Enter a number...

Density (%) - Initial

Enter a number...

Material Type

- ☐ Gravel
- ☐ Crushed Stone
- ☐ Base Course
- ☐ Other

Roller Type (Lift 1)

- ☐ Sheepsfoot
- ☐ Pneumatic Tire
- ☐ Steel Wheel
- ☐ Vibratory
- ☐ Other

Roller Weight (lbs)

Enter a number...


Number of Passes (Lift 1)

Enter a number...

Observations/Comments (Lift 1)

Write something...

Photos/Videos (Lift 1)

 Upload File

Intermediate Compaction (Subsequent Lifts)

Checks compaction results for each subsequent lift of the pavement layer, ensuring uniform density and proper layer bonding.

Lift Number

Enter a number...

Moisture Content (%)

Enter a number...

Density (%)

Enter a number...

Compaction Method Used

- ☐ Static Rollers
- ☐ Vibratory Rollers
- ☐ Pneumatic Tires
- ☐ Other (Specify)

Roller Settings (Vibration Frequency, Amplitude, Speed)

Write something...

Surface Finish

- ☐ Satisfactory
- ☐ Needs Improvement
- ☐ Unsatisfactory

Observations / Notes (e.g., mat behavior, roller performance)

Write something...

Area Compacted (sq. meters/feet)

Enter a number...

Corrective Actions Required?

- ☐ Moisture Adjustment
- ☐ Roller Setting Adjustment
- ☐ Roller Type Change
- ☐ None

Final Compaction (Top Lift)

Assesses the final compaction of the top layer, confirming it meets specified density and surface tolerance requirements.

Density Achieved (%)

Enter a number...

Moisture Content (%)

Enter a number...

Surface Tolerance (mm)

Enter a number...

Surface Finish (Appearance)

- ☐ Smooth
- ☐ Textured
- ☐ Acceptable
- ☐ Unacceptable

Pass/Fail Status

- ☐ Pass
- ☐ Fail

Observations/Comments (if applicable)

Write something...

Photos/Videos of Top Lift

 Upload File

Date of Top Lift Compaction

Time of Top Lift Compaction

Inspector's Signature

Documentation & Reporting

Records compaction data, test results, and any corrective actions taken. Ensures compliance with project specifications.

Date of Compaction Verification

Time of Compaction Verification

Average Moisture Content (%)

Average Density (%)

Number of Passes

Enter a number...

Compaction Equipment Used

- ☐ Plate Compactor
- ☐ Roller (Smooth Drum)
- ☐ Roller (Padded Foot)
- ☐ Vibratory Roller
- ☐ Other (Specify)

Observations and Comments

Write something...

Compaction Test Reports (e.g., Proctor, Density)

 Upload File

Verification Status

- ☐ Pass
- ☐ Fail
- ☐ Warning

Inspector Signature