

QC Grounding & Bonding Electrical Checklist

Section 26.05.26

<p>Hangers and supports carry calculated raceway or cable-tray loads with a minimum 200 % safety factor, and manufacturer load-rating documentation is available on site.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Conduit hanger spacing does not exceed NEC and project limits (e.g., EMT ≤10 ft, RMC ≤10 ft, IMC ≤10 ft, cable tray supports ≤5 ft); measured intervals are recorded.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> FTQ ✓ OPN NA </div>
<p>Conduits are supported within 3 ft of each box, enclosure, or termination as required by NEC; measured end-support distances are recorded.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Anchors and fasteners installed in concrete or masonry match specified type and size with embed depth meeting minimum manufacturer and design requirements; anchor size and embed depth are documented.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Powder-actuated fasteners are not used in post-tension slabs or other prohibited substrates, and alternative approved anchorage methods are provided where required.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Electrical hangers and supports are independent of ceiling suspension wires, ductwork, or sprinkler piping, and attach only to structural members capable of carrying imposed loads.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Hangers, rods, channels, and other support components in damp or corrosive locations are galvanized or stainless steel as specified and are free of rust or coating damage at time of inspection.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Seismic bracing and sway restraints for raceways and cable trays are installed at required intervals and orientations per seismic design details, with listed seismic hardware in place.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> FTQ QC ✓ NA </div>
<p>Supports maintain a minimum 1-inch clearance from adjacent building services (e.g., sprinkler, plumbing, HVAC) to prevent contact, galvanic action, or vibration transfer; representative clearances are measured.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Penetrations of hangers or support hardware through fire-rated assemblies are protected by approved sleeves or firestop systems that maintain the assembly's fire-resistance rating.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Threaded rods used for hanging raceways extend at least two full threads beyond nuts and are secured with locknuts or double-nut arrangement where specified.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> FTQ ✓ OPN NA </div>
<p>Cable-tray supports maintain level alignment within 1/4 inch over 10 ft; alignment measurements are taken at representative spans.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Unistrut or channel support members are cut square, burr-free, and fitted with end caps where required to prevent cable damage.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Exterior conduit racks and supports are hot-dip galvanized after fabrication and are mounted on concrete footings of specified size and strength; footing dimensions and concrete batch tickets are recorded.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> ✓ QC OPN NA </div>
<p>Type MC/AC cables installed without raceway are secured to structure at intervals not exceeding 6 ft and within 12 in. of boxes or fittings, meeting NEC 320.30 and 330.30 requirements.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> FTQ QC ✓ NA </div>