

QC Precast Architectural Concrete Checklist

Section 03.45.00

<p>Panel overall length, width, and thickness are within specified dimensional tolerances recorded from approved shop drawings (+/-1/4 in. for length/width up to 10 ft, +/-1/8 in. thickness).</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Panel faces are flat and square with bow, warp, and edge sweep not exceeding allowable limits (e.g., 1/8 in. in 10 ft) measured with 10-ft straightedge.</p>	<input type="checkbox"/> FTQ <input checked="" type="checkbox"/> OPN NA
<p>Observations</p>	
<p>Architectural finish, color, and texture of exposed face match approved mock-up under identical lighting conditions; deviations documented with calibrated photo.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>All cast-in inserts, anchors, and embeds are placed within +/-1/4 in. of design coordinates in three dimensions as verified with tape or laser measure.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Weld plates and connection hardware are fully encapsulated with minimum 1-1/2 in. concrete cover (unless otherwise detailed) verified at edge breakouts or using cover meter.</p>	<input type="checkbox"/> FTQ <input type="checkbox"/> QC <input checked="" type="checkbox"/> NA
<p>Observations</p>	
<p>Panel reinforcing steel is installed with specified spacing, cover, and lap splice lengths; two random measurements per panel recorded.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Concrete batch records show compliance with specified mix design, compressive strength, slump/spread, air content, and color pigment dosage; cylinders taken per lot.</p>	<input type="checkbox"/> FTQ <input checked="" type="checkbox"/> OPN NA
<p>Observations</p>	
<p>Curing regimen (steam or moist heat) maintains temperature and duration required for design strength and color uniformity; temperature log sheets reviewed and attached.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Lifting anchors are rated for panel weight with safety factor per manufacturer and installed at approved locations and angles; manufacturer identification visible.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Panel edges are free of chips or spalls exceeding 1/8 in. depth or length over 2 in.; defects exceeding limits tagged for corrective action.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Stored panels rest on softwood dunnage aligned vertically and located at engineered bearing points; dunnage spacing and alignment documented.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Transportation rigging supports panels to prevent twist, bow, or abrasion; tie-down contact points padded and positioned per shipment plan.</p>	<input type="checkbox"/> FTQ <input type="checkbox"/> QC <input checked="" type="checkbox"/> NA
<p>Observations</p>	
<p>Structure bearing seats are level within 1/8 in. across panel width and free of debris before panel setting; elevations recorded at four corners.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Grout pads or shims installed at bearing points use specified non-shrink grout or neoprene thickness 1/4-in. minimum; location and thickness logged for each panel.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Field welding of connection plates achieves specified weld size and length using qualified personnel; welds visually inspected for continuity and slag removal prior to coating.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Horizontal and vertical joints between panels maintain uniform gap within +/-1/4 in. of design and panels remain flush within 1/8 in. misalignment.</p>	<input type="checkbox"/> FTQ <input type="checkbox"/> QC <input checked="" type="checkbox"/> NA
<p>Observations</p>	
<p>Sealant joint substrates are clean, dry, and primed; backer rod diameter provides 2:1 width-to-depth ratio; installation observed and recorded.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	
<p>Field patching of lifting anchor recesses and minor surface defects matches surrounding panel color and texture when fully cured; acceptance compared to mock-up.</p>	<input checked="" type="checkbox"/> QC OPN NA
<p>Observations</p>	