

Precast concrete rough-in inspection checklist

Precast concrete rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against PCI guidance, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent walking the raise with the erector's foreman, releasing each bay before the crane moves on.
When: During erection, piece by piece as panels and members are landed, before any topping is poured or the connection is closed in.

Bearing and alignment

- ☐ **Bearing pads seated and members at correct elevation**
Pad centered and fully under the bearing, member elevation and line checked against the erection drawing before release. 2 photos required
- ☐ **Leveling shims placed and stable**
Shim stacks solid, non-tipping and within the detailed height, no makeshift shims substituted in the field. 1 photo required

Connections

- ☐ **Connection hardware matches the erection detail**
Plates, angles, bolts and weld sizes match the piece connection detail, bolts torqued or welds sized as shown. 2 photos required
- ☐ **Field welds complete, not just tack-held**
Every connection weld run out to the detailed size, no piece left carried on erection tacks alone. 2 photos required
- ☐ **Embeds and dowels engaged as shown**
Cast-in embeds and projecting dowels line up and engage the mating piece per the detail, none cut or bent to fit. 1 photo required

Grout and bracing

- ☐ **Grout placed at bearings and keyways**
Bearing joints and shear keyways fully packed with the specified grout, consolidated with no voids before closure. 2 photos required
- ☐ **Temporary bracing in place until connections are made**
Erection bracing installed and left engaged until the permanent connections and grout have taken the load. 1 photo required