READY TO INSPECT — FIELD CHECKLIST

Structural steel final inspection checklist

Structural steel final inspection is where the punch list is either short or expensive. This checklist walks the finished work the way an owner or AHJ will see it: devices on, systems running, everything labeled. Each item gets the photo that closes it instead of reopening it. Work is commonly verified against AISC, AWS D1.1, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the steel foreman, closing out the structure with the special inspector's connection reports in hand. When: After the frame is topped out and all connections are made, before the fireproofing crew mobilizes and covers the steel.

Connections complete

- [ ] All bolted connections final and verified
  Every joint completed to its specified condition, pretensioned joints confirmed tensioned, no snug-tight bolts remaining where pretension is required, no open holes.
  2 photos required
- [ ] All structural welds complete and accepted
  Welds finished at every location, visual and any required NDT results accepted, temporary erection aids removed and their scars ground smooth.
  2 photos required
- [ ] Special inspection reports for the floor in hand before cover
  Bolting and welding reports for each floor received, rejected joints shown corrected and re-inspected, before the GC releases the steel to following trades.
  No photo required
- [ ] As-built plumb and elevation survey recorded after bolt-up
  Surveyor's as-built readings for column plumb and top of steel filed by column line, deviations outside the erection tolerance referred to the engineer of record.
  No photo required

Frame members and attachments

- [ ] Permanent bracing, kickers and bridging connected at both ends
  Vertical and horizontal bracing, kickers and any bridging shown landed and fully connected at each end per the drawings, none left tacked or loose.
  1 photo required
- [ ] Temporary guys and bracing removed only after the frame is stable
  Cables, guys and erection bracing taken down once deck and permanent bracing are complete per the erector's plan, and none left tangled in the finished frame.
  1 photo required
- [ ] Attachments for other trades installed on the steel before cover
  Clips, angles and plates the drawings show for cladding, stairs, elevators and curtain wall welded or bolted on, so nobody welds through finished fireproofing later.
  1 photo required
- [ ] No holes, notches or copes cut by other trades
  Beams, columns and braces walked for field-torched or drilled holes from MEP trades; anything found photographed and reported to the engineer of record.
  1 photo required

Decking

- [ ] Metal deck attachment complete at all supports
  Deck welded or fastened at supports and side-laps at the specified pattern, no loose sheets, deck bearing and butt-joints landed on steel.
  2 photos required
- [ ] Deck openings, closures and pour stops in place
  Edge pour stops, column closures and deck openings framed and secured before the deck is signed off for concrete.
  1 photo required

- [ ] Deck sheets free of crushed flutes and dents
  No crushed ribs, bent edges or dented sheets from bundle landings and foot traffic; damaged panels marked for repair or replacement before concrete or roofing.
  1 photo required

- [ ] Shear stud count and condition checked on composite beams
  Where beams are composite, studs counted per beam against the drawings, fully fused at the base, none missing, bent flat or broken off.
  No photo required

Ready for fireproofing

- [ ] Steel clean and complete before fireproofing
  Surfaces free of loose material, connection log closed for the area, nothing left to weld or bolt on the steel once fireproofing covers it.
  1 photo required

- [ ] Steel surface condition matched to the fireproofing submittal
  Primed or bare steel confirmed against the fireproofing manufacturer's compatibility requirements; oil, loose mill scale or rust reported to the GC before spray starts.
  No photo required