Division 22 Plumbing pre-submittal checklist

PROJECT	SPEC SECTION	SUBMITTAL NO.

CHECKED BY	DATE

1. Before you start

These apply to every submittal, whatever the trade.

- [ ] Pull the exact spec section this package answers to, including addenda that changed it.
- [ ] Read the submittal articles in Part 1 and list every item they ask for.
- [ ] Confirm the transmittal names the right section number, and that each product is tagged to the paragraph it answers.
- [ ] Mark any deviation from the spec yourself on the transmittal. A declared deviation gets reviewed; a hidden one gets the package rejected.
- [ ] Keep a copy of exactly what you sent, with the date, for your submittal log.

2. Named manufacturers and products match the spec **Blocker**

Compare every product in the package to the manufacturer and model the spec names. If anything differs, attach the approved substitution or or-equal letter, or swap back before you send. Tick each item once you have checked it and nothing below applies without written approval.

- [ ] Pipe manufacturer substitutions (Charlotte Pipe, JM Eagle, Viega, Watts, Nibco)
- [ ] Fixture manufacturer substitutions (American Standard, Kohler, Sloan, Zurn, Chicago Faucets, Elkay, Moen, Delta Commercial, T&S Brass)
- [ ] Water heater manufacturer substitutions (A.O. Smith, Bradford White, Rheem, Lochinvar, PVI)
- [ ] Valve manufacturer substitutions (Watts, Nibco, Apollo, Milwaukee Valve)
- [ ] Water cooler/fountain manufacturer substitutions (Elkay, Halsey Taylor, Oasis, Haws)
- [ ] Backflow preventer manufacturer substitutions (Watts, Zurn Wilkins, Apollo, Febco)
- [ ] Grease interceptor manufacturer substitutions (Zurn, Jay R. Smith, Watts, Schier)
- [ ] Pump manufacturer substitutions (Grundfos, Bell & Gossett/Xylem, Armstrong, Taco)

3. Performance values meet the spec numbers **Blocker**

Put the data sheet next to the spec and compare the actual values, not just the test method. A sheet that says "tested per ASTM" without the number is not proof. Tick each value once it meets or beats the spec.

- [ ] **Pipe pressure rating** (SDR rating, schedule number, psi working pressure)

- [ ] **Pipe material specification** (Type L vs Type M copper, Schedule 40 vs 80 steel/PVC, CPVC, PEX class)
- [ ] **Flow rate (GPM)** at design conditions for water heaters and fixtures
- [ ] **Temperature rise** (degrees F at rated flow for water heaters)
- [ ] **Thermal efficiency** (%) for water heaters (condensing vs non-condensing)
- [ ] **First-hour rating** and recovery rate (GPH) for storage water heaters
- [ ] **Input capacity** (BTU/hr for gas, kW for electric water heaters)
- [ ] **Storage capacity** (gallons)
- [ ] **Fixture water consumption** (GPF for water closets and urinals per EPA WaterSense, GPM for lavatory faucets and showerheads)
- [ ] **Backflow preventer rating** (ASSE 1012, 1013, 1015, 1024 per hazard classification)
- [ ] **Grease interceptor capacity** (GPM flow rate, grease retention in lbs)
- [ ] **Roof drain flow capacity** (GPM at design head)
- [ ] **Expansion tank volume** (gallons, acceptance volume at operating pressure)
- [ ] **Insulation thickness** for hot water piping (per ASHRAE 90.1 Table 6.8.3)
- [ ] **Pipe velocity limits** (fps for copper, steel, plastic per manufacturer/code)

4. Certifications and test reports are attached **Fix and Resubmit**

Reviewers want the report itself, not a line on the data sheet saying one exists. Tick each document that the spec requires and the package actually contains. Skip lines that do not apply to your section.

- [ ] **NSF/ANSI 61** certification (drinking water system components - required for all products contacting potable water)
- [ ] **NSF/ANSI 372** compliance (lead-free per Federal Safe Drinking Water Act, 2014)
- [ ] **ASSE standards** for backflow preventers and safety devices (1012, 1013, 1015, 1017, 1024, 1047, 1048, 1070)
- [ ] **ASME certification** for water heaters and storage tanks
- [ ] **UPC (Uniform Plumbing Code)** or **IPC (International Plumbing Code)** compliance
- [ ] **UL listing** for electric water heaters (UL 174 / UL 1453)
- [ ] **CSA certification** for gas water heaters (ANSI Z21.10)
- [ ] **EPA WaterSense** certification for water-efficient fixtures
- [ ] **IAPMO listing** (cUPC mark) for plumbing products
- [ ] **ADA compliance** documentation for accessible fixtures (ANSI A117.1)
- [ ] **LEED water efficiency** documentation (fixture flow rates, WaterSense compliance)
- [ ] **Seismic certification** for water heaters and equipment anchorage (IBC/ASCE 7)
- [ ] **Buy America** compliance (for federally funded projects, ARRA)
- [ ] **Scald protection certification** (ASSE 1016, 1017, 1070 for mixing valves and thermostatic valves)

5. Colors, finishes, and profiles match the selection Fix and Resubmit

Match each visible attribute to the spec text and the architect's approved sample or color schedule. Tick each one you have confirmed.

- [ ] Fixture color (white, bone, biscuit, black per manufacturer line)
- [ ] Faucet finish (polished chrome, brushed nickel, satin stainless, matte black)
- [ ] Fixture style and model appearance (ADA-compliant vs standard, wall-hung vs floor-mount)
- [ ] Water cooler/fountain finish and configuration (wall-mount, bi-level, bottle filler)
- [ ] Exposed piping finish (chrome-plated, stainless steel) in accessible areas
- [ ] Access panel finish and type

6. Details and installation match the spec and drawings Fix and Resubmit

These are the mismatches reviewers catch most in this division. Check your shop drawings and installation data against the spec and the contract drawings, and tick each line once you have confirmed it does not apply to your package.

- [ ] **Pipe material** mismatch (Type L vs Type M copper, cast iron vs PVC for DWV, CPVC vs PEX for domestic water)
- [ ] **Joining method** differs (solder vs press-fit/ProPress vs brazed for copper; hub vs no-hub for cast iron; solvent weld vs mechanical for PVC)
- [ ] **Pipe size** differs from design drawings
- [ ] **Water heater vent type** (direct vent vs power vent vs atmospheric draft)
- [ ] **Trap size** differs from code minimum
- [ ] **Fixture rough-in dimensions** differ (affects coordination with walls and structure)
- [ ] **Valve type** differs (gate vs ball vs butterfly, full port vs standard)
- [ ] **Expansion tank** size or pre-charge pressure differs
- [ ] **Insulation type or thickness** for hot water piping differs
- [ ] **Floor drain body type** (adjustable vs fixed, sediment bucket vs open)
- [ ] **Water hammer arrestor** location or sizing differs
- [ ] **Mixing valve type** (thermostatic vs pressure-balancing vs combination)
- [ ] **Domestic water booster pump** type or capacity differs

7. Every required item is in the package Fix and Resubmit

Open the submittal articles in Part 1 of your spec section (often split into action and informational submittals) and confirm each required item is present. The list below is what this division's specs most often require.

- [ ] Plumbing riser diagrams
- [ ] Isometric drawings for waste/vent systems
- [ ] Fixture schedule with rough-in data and GPM/GPF ratings

- [ ] Water heater performance data at design conditions (input, output, recovery, efficiency)
- [ ] Backflow preventer product data and test certification
- [ ] Pipe material and fitting schedule
- [ ] Valve schedule with size, type, and service
- [ ] Insulation schedule for piping
- [ ] Seismic bracing calculations and anchorage details
- [ ] O&M manuals for equipment
- [ ] Warranty documentation
- [ ] Grease interceptor sizing calculations
- [ ] Domestic hot water demand calculations
- [ ] Expansion tank sizing calculations
- [ ] Plumbing fixture spec sheets showing code compliance (ADA, WaterSense)

Free checklist from deviationcheck.com/checklists/22-plumbing/. Want the package checked against your spec? Deviation Check reviews it for $35 at deviationcheck.com.