READY TO INSPECT — FIELD CHECKLIST

Spray polyurethane foam insulation rough-in inspection checklist

Spray polyurethane foam insulation 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 the applicable building code, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The spray applicator or crew lead checking the bay, with the GC's superintendent confirming the cavity is closed to inspection. When: Immediately before spraying each area, once rough-in inspections are signed and the cavity is otherwise ready to close, but before any foam is laid.

Substrate and conditions

- [ ] Substrate clean, dry and sound
  Framing and sheathing free of dust, oil, frost and standing moisture, no wet spots where the foam would fail to adhere.
  2 photos required
- [ ] Ambient and substrate temperature and dew point within range
  Air and surface temperature read and compared to the product's published window, dew point checked so the substrate isn't below it.
  2 photos required
- [ ] Substrate moisture content read with a meter
  Wood framing, sheathing or masonry read with a moisture meter at several spots per area and compared to the foam manufacturer's maximum, readings noted by area.
  1 photo required

Materials and equipment

- [ ] Drum labels match the approved foam submittal
  A-side and B-side drums carry the product named in the approved submittal, open-cell or closed-cell as specified, with lot numbers and shelf-life dates legible and current.
  1 photo required
- [ ] Drums conditioned to the manufacturer's temperature
  Drum temperature read before pumping and inside the range the manufacturer lists, no drums left in an unheated trailer overnight and pumped cold.
  1 photo required
- [ ] Rig pressures and hose heat set to the product data sheet
  Proportioner display in the rig shows A and B pressures balanced and preheater and hose temperatures at the values the manufacturer's data sheet gives.
  1 photo required
- [ ] Test shot sprayed and checked before the first bay
  Test shot on scrap board shows even color, fine cell structure and normal rise and tack-free time; soft, brittle or discolored foam means the rig is adjusted first.
  1 photo required

Preparation

- [ ] Masking and protection in place
  Windows, electrical panels, finished surfaces and equipment masked or covered, floor protected, so overspray lands only where foam belongs.
  2 photos required
- [ ] Penetrations and gaps to be sealed identified
  Pipe, wire and duct penetrations, top plates and rim joists that the foam is meant to seal are located and open, none blocked or already stuffed with something else.
  2 photos required

- [ ] Rough-in inspections for the area on record before foam
  Plumbing, electrical and mechanical rough-in inspections for each bay to be sprayed passed and on file with the super, since foam buries that work for good.
  No photo required

- [ ] Clearance set out at flues and heat-producing fixtures
  Flues, chimneys, recessed fixtures and other heat sources in the spray area located and dammed or boxed to the clearance the foam manufacturer and the fixture listing require.
  No photo required

- [ ] Lift plan set from the manufacturer's maximum pass thickness
  Total thickness taken from the approved drawings, maximum thickness per pass and wait time between passes taken from the manufacturer's instructions, both given to the sprayer.
  No photo required

Restricted area and ventilation

- [ ] Spray area closed off and signed as restricted
  Every entry to the spray area taped or sheeted off with warning signs posted; the person holding the phone observes from outside the restricted area during application.
  1 photo required

- [ ] Temporary exhaust set up to pull air out of the spray area
  Exhaust fans placed per the manufacturer's ventilation guidance and discharging away from occupied rooms and air intakes, building HVAC in the area off and its openings covered.
  1 photo required

- [ ] Re-occupancy time posted and other trades cleared
  Other trades and occupants out of the area, the manufacturer's re-occupancy time and the planned re-entry hour posted at the entry and given to the super.
  No photo required