

Shotcrete rough-in inspection checklist

Shotcrete 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 ACI, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the shotcrete foreman, releasing the wall or slope before the nozzle crew starts.

When: After reinforcement and embeds are placed and screeds or ground wires are set, before the first pass covers any of it.

Substrate and reinforcement

- ☐ **Substrate prepared and reinforcement placed to allow encasement**
Substrate clean and sound, bars held off the face with clearance for the material to shoot behind and fully encase them, splices and laps in place. 2 photos required
- ☐ **Cover maintained over the reinforcement**
Cover to the finished face confirmed at the bars and at chairs or standoffs, so the design cover isn't lost when the surface is cut to grade. 2 photos required

Embeds and thickness controls

- ☐ **Embeds and blockouts set and protected**
Anchors, sleeves and blockouts placed to layout and masked or protected so they aren't buried or fouled by rebound. 2 photos required
- ☐ **Ground wires or depth screeds set for thickness**
Depth gauges, ground wires or screeds set across the surface so the crew can shoot and cut to the specified thickness. 2 photos required

Mix and nozzle qualification

- ☐ **Test panels shot and nozzle operators qualified**
Preconstruction test panels shot in the same orientation and mix, cores or cut sections reviewed for density and encasement before production shooting. 2 photos required