

# QC Hangers and Supports for Plumbing Piping and Equipment Checklist

Section 22.05.29

**i** Hangers and Supports for Plumbing Piping and Equipment addressing installation, integration, and safe operation of related assemblies and systems for reliable facility performance. Scope emphasizes hanger, pipe, fastening, insulation, with field verification confirming compliance with performance, safety, and quality standards.

Hanger spacing on horizontal plumbing piping matches specification tables (e.g., ≤ 6 ft for 1-1/4 in. and smaller copper, ≤ 10 ft for 1-1/2 in. and larger) with measured distances recorded.

156530821

Observations

✓

QC

OPN

NA

Hanger rod diameter and load rating meet or exceed calculated full pipe weight (pipe, fluid, insulation) for each supported segment, with rod size marked on inspection log.

156530822

Observations

✓

QC

OPN

NA

Hanger attachments are fastened directly to structural members (concrete inserts, beam clamps, welded tabs) and not to ceiling tile grids, drywall tracks, or other non-structural elements.

156530823

Observations

FTQ

QC

✓

NA

Trapeze supports use specified channel size and hardware, and concrete anchors achieve required embedment depth and torque; anchor manufacturer's torque values documented.

156530824

Observations

✓

QC

OPN

NA

Vertical riser clamps installed at every floor penetration and at intervals defined in specification, with bolts tightened to fully bear pipe weight without crushing insulation.

156530825

Observations

FTQ

✓

OPN

NA

Seismic sway braces and longitudinal restraints installed at code-required intervals and angles, with brace type and installation angle recorded for each brace.

156530826

Observations

✓

QC

OPN

NA

Hangers maintain minimum 1/2 in. clearance between finished insulation jacket and adjacent construction, preventing compression or abrasion of insulation.

156530827

Observations

✓

QC

OPN

NA

Copper piping isolated from dissimilar-metal hangers with plastic or neoprene sleeves/inserts, eliminating direct galvanic contact.

156530828

Observations

FTQ

QC

✓

NA

Noise and vibration isolation pads, springs, or neoprene inserts installed on hangers within occupied spaces as specified; verify isolation element type and thickness.

156530829

Observations

✓

QC

OPN

NA

Pipe guides and slides at expansion loops and offsets aligned with pipe centerline and allow free axial movement; guide bolts loosened to design clearance.

156530830

Observations

✓

QC

OPN

NA

Spring hangers tagged with cold and hot settings; hot-load deflection measured after system fill is within manufacturer's tolerance (±0.25 in. of design).

156530831

Observations

FTQ

✓

OPN

NA

Completed hanger installation supports water-filled pipe without measurable sag exceeding L/240; inspector records mid-span deflection of representative runs.

156530832

Observations

✓

QC

OPN

NA

All field-welded hanger components cleaned and coated with rust-inhibitive primer and finish paint matching specification before final concealment.

156530833

Observations

FTQ

QC

✓

NA

Threaded rod end extends 2–3 full threads beyond bottom nut on each hanger, and top/bottom nuts fully tightened against restraint washers or load plates.

156530834

Observations

✓

QC

OPN

NA

Hanger penetrations through fire-rated assemblies maintain required fire-stopping; support hardware does not compromise hourly rating of rated ceilings or walls.

156530835

Observations

✓

QC

OPN

NA

**i** Note to QA Engineer: To refine your checklist template, turn on any of the approximately 20 hidden checkpoints that apply, turn off any unnecessary checkpoints shown above, and add your own checkpoints and data collection tables.