

CITY OF NEWPORT BEACH

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

100 Civic Center Drive | P.O. Box 1768 | Newport Beach, CA 926588915 www.newportbeachca.gov | (949) 644-3200

ROUGH PLUMBING CHECKLIST

This is to be used as a general checklist; it is not inclusive of all code requirements and inspection criteria.

Per California Plumbing Code (CPC)

<u>PIPI</u>	E SUPPORT (table 3-2) and PROTECTION
	ABS/PVC: Horizontal support every 4 feet, support vertically every story and provide mid-story
_	guide.
	Cast iron: Horizontal support every other joint unless over 4 feet, within 18" of joints, and at all horizontal branch connections. Vertical support at base and each story using riser clamps.
	Copper tubing: 1 ½" and less every 6 ft. horizontally and every 10 ft. horizontal for pipe 2" and larger. Support vertical piping every story.
	Wrap embedded piping to prevent strain and corrosion. [CPC 313.2]
	Sleeve pipes through footings and foundations. [CPC 313.10]
	Seal spaces between pipes and sleeves. [CPC 310.10.3]
SOL	L PIPING
	Pipe supported on firm bed for entire length. [CPC 314.3]
	No rocks supporting or touching pipes. [CPC 315.4]
	Six inches of sand bed minimum for ABS/PVC drain pipe per manufacturer
	No rocks or debris in first 12" of backfill over ABS pipe. [CPC 315.4]
	Trenches not to undermine footings within bearing plane (45°). [CPC 315.1]
	Sewer and water pipe minimum 12" deep. [CPC 609.1]
	Water and sewer OK in same trench if sewer materials are approved for such use.
DR/	AINAGE
	Materials must be listed and all pipes must have manufactures listing and labeling. [CPC 301.1.2]
	Minimum slope 1/4" per foot, or when preapproved, 1/8" per foot for 4" diameter or larger. [CPC 708.0]
	No reductions in pipe size allowed in direction of flow. [CPC 316.4.1]
	No drilling or tapping of connections. [CPC 311.2]
	Use only listed transition fittings at plastic to cast iron pipe.
	Minimum trap sizes per table 7-3
CLE	EANOUTS (C.O.)
	Size per CPC table 7-6
	Required at upper terminal of horizontal runs on first floor or two way clean out required near
	building drain/building sewer. [CPC 707.4]
	Cleanout in horizontal drainage piping every 100' and/or every aggregate 135° change of
	direction. [CPC 707.4]

	Clean outs clearances per CPC 707.9 Under floor clean out shall not be farther than 20 ft. from access point. [CPC 707.9] Passageway to under floor cleanout minimum 30" horizontal by 18" vertical. [CPC 707.9]
FIXT	Fixtures to drain by gravity where practicable. [CPC 709.0] When necessary due to site conditions, install sewer ejector pump per CPC 710. Backwater valves required for fixtures below next upstream manhole cover. [CPC 710.1] Fixtures above manhole cover elevation not allowed to discharge through backwater valves (typical). Back water valves required to be accessible for service. [CPC 710.6]
TRA	Trap size no larger than trap arm. [CPC 1003.3] Trap weir to vent distance minimum 2 times trap arm diameter. [CPC 1002.2] Horizontal distance of trap arms per table 10.1. Only 1 trap permitted on trap arm. [CPC 1001.1] Maximum 1 slip joint allowed on outlet side of trap. [CPC 1003.2] Clean out required if change of direction is more than 90°. [CPC 1002.3] Slip joints must be accessible, minimum 12" X 12" access. [CPC 404.2]
<u>VEN</u>	No flat venting (take off above horizontal center line). [CPC 905.2] Slope vents toward waste piping and must be free of sags. [CPC 905.1] No vent opening below trap weir. [CPC 905.5] Horizontal vents minimum 6" above flood level rim or drainage fittings [CPC 905.3] Vents must terminate outdoors 6" above roof. [CPC 906.1] Minimum 12" horizontal from any vertical surface. [CPC 906.1] Minimum 7 ft. above roofs used as decks if within 10 ft. horizontally. [CPC 906.3] Clearance from building openings 3 ft. above or 10 ft. away. [CPC 906.2] Vent terminations minimum 3 ft. from property lines. [CPC 906.2]
	Minimum water service piping is ¾" (type L If copper). [CPC 610.8] Steel plate protection for piping if notches or holes are closer than 1" to face of framing. [CPC 313.9] Steel plate protection must span minimum 1 ½" beyond outside of pipe. [CPC 313.9] Water hammer arrestors required near quick-acting valves. [CPC 609.10] Hot water pipe insulation R-6.5. Ream test required for copper pipe (CPC 606.1) Only one shower head per shower operational at one time.
	QUIRED VALVES
	Main shutoff and water heater shutoff valves must be fullway type. [CPC 605.2] Valves required at fixture supply pipe except tub and shower. [CPC 605.5] Shower valve location such that adjustment may be made without entering stream (CPC 411.10)
	Valves required on cold-water supply at each water heater. [CPC 605.2] All shutoffs require access. [CPC 605.6] Vacuum relief valve for water heaters higher than the appliance(s) it serves. [CPC 608.7]

GAS	<u>S PIPING</u>
	Gas piping prohibited underground beneath buildings unless in conduit sealed in building and vented on exterior. [CPC 1211.1.6]
	Gas tubing requires shield plates to extend minimum 4" past studs and plates. [CPC 1211.3.4]
	Cap all unused gas outlets. [CPC 12.11.9.2]
	Accessible dry leg required if water vapor in gas. [CPC 1211.8.1]
	Corrugated stainless steel tubing shall be installed per manufactures instructions. Piping through concrete shall be sleeved. [CPC 1211.1.5]
	Yellow insulated copper tracer wire minimum 18 AWG buried with plastic pipe.
	Minimum 6" above grade when mounted to the building
	Galvanized, painted or otherwise prevented from corrosion (CPC 313.4)
DIDI	NO TEST
	NG TEST
	Water pipe test at working pressure 15 minutes or 50 PSI air test for other than plastic pipe (15 minutes). [CPC 609.4]
	Drain waste and vent 10 foot head for 15 minutes or air test 5 PSI for 15 minutes. [CPC 712.3]
	Gas test: 1 ½ X working pressure for 10 minutes minimum (longer for larger systems). [CPC
_	1214.3.3]
	Test gauge scale not more than 2X test pressure. [CPC 309.4]
	Roof drains tested and approved prior to covering.
SHC	OWER PAN TEST (CPC 411.7)
	Shower pan sloped to drain.
	3" dam and solid backing all around for backing.
	Listing and installation instructions for other than hot mop (built up).
	Drain weep holes not sealed with tar or mastic.
<u>TPR</u>	AND CONDENSATE PIPING
	TPR valve piping to grade or other approved location
	Condensate piping to appropriate locations with minimum fall