

CITY OF NEWPORT BEACH

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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NEW ROOF NAILING CHECKLIST

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

According to the 2010 California Building Code (CBC) and California Plumbing Code (CPC)

	othe	ctural sheathing with strength axis (which is the long direction of the panel unless rwise marked) of the sheathing to be perpendicular to rafters. Plywood grade stamp le and as per plan. Five ply minimum unless noted otherwise. CBC table 2304.7(5)
		sheathing to be nailed with common nails. Heads of nails to be flush with face of
		thing. No shiners and no over-penetration of nails. Shiners are to be pushed back and re-
		d. Hardware and metal straps to be in place as per plan. CBC 2304.9.2
		of Santa Monica is in 80-mph wind zone. Nailing to be 6"o.c. at edges 12" o. c. field for
	•	ings up to 35' in height over 35' nailing is by design professional and per CBC 2304.7.
		ventilation in place with 1/8" corrosion resistant mesh over openings, not less than 1/150
		ea ventilated. Fifty- percent reduction if half of ventilation is higher than three feet above
		ired eave or cornice venting. CBC 1203.2
	Roof	drainage per CPC 1101.11 and CBC 1503.4 Overflow drain to be same size as roof drain
		have completely separate drain line to approved location. All overflow drains to be two
		es higher than primary drain. (Area of a 3 inch pipe is 7.068 sq. inches and of a 4 inch
		is 12.566 sq. inches) TEST REQUIRED for roof drain piping per CPC 1109
		erflow scupper is used, opening is to be minimum 4" see CBC 1503.4.2
		rior walls and projections, including eaves and balconies, less than 5 feet from fire
		ration distance must be non-combustible construction, minimum1 hour fire rated
		truction or fire treated lumber. May require two hour protection based on building
		pancy see CBC table 602. Walls require rated construction for fire exposure from both when less than or equal to 10' from fire separation CBC 705.5
		ses are not to be field modified and must be installed per manufacturer's specifications.
_		2303.4.5 and 2303.4.2
		ers & Ceiling Joists
		Roof structures less than 3/12: Ridge board, hips and valley joists to be designed as
		beams. CBC 2308.10
		Rafters shall be framed directly opposite each other at the ridge and a minimum 1X
		ridge not less than the depth of the cut end of rafter. Hips and valleys required 2X
		minimum size of rafter stand. CBC 2308.10.4
		Framing around openings per CBC 21305.1.12308.10.4.3 (doubled rafters with blocks
		and strapping if opening > 4')
		Notching at the ends of rafters or ceiling joists shall not exceed ¼ of the depth. Notches
		in the top or bottom of the rafter or ceiling joists shall not exceed 1/6 of the depth and
		shall not be located in the middle 1/3 of the span. Holes bored in rafters or ceiling joists
		shall not be within 2" of the top and bottom and their diameter shall not exceed 1/3 of
		depth. CBC 2308.10.4.2

Cricket/saddle required for penetrations over 30" wide.
No cutting or notching of engineered lumber without written permission from Structural
Engineer Of Record CBC 2308.10.7
Rafter ties required where there are no joists (parallel to rafters). Ties must be at least 1 X 4 and spaced not more than 4' O.C (or structural ridge). CBC 2308.10.4.1
Struts 2X4 or larger from bearing wall to purlin, un-braced length of struts not to exceed 8' and the minimum slope of the struts shall not be less than 45 degrees. Purlins shall not be smaller than the supported rafter, 2X4 shall be maximum 4'span, 2X6 shall be maximum span 6 feet and shall be supported by struts to bearing walls. CBC 2308.10.5
Shear transfer- roof plywood to freeze block with boundary nailing, boundary nails along gable (barge) rafter and collector lines. All shear transfer hardware complete and per approved plans.
All penetrations including vents, flues, and exhaust ducts through sheathing and secured before inspection. CBC 110.3.4
Roof heights max requires survey on city form by State licensed surveyor.
Electrical service conductors over roofs:
Roof pitches from flat to 4/12 slope require 8'clear.
Clearance from roof with a slope of 4/12 or greater requires 3' clear.
Roof crickets shall not be placed until after roof nailing inspection. CBC 110.1 &110.3.4
Plywood panels with a dimension less than 24" or 8 square feet require blocking and boundary nailing at all edges of the undersize sheet. CBC 2306.2
Provide cross ventilation at enclosed rafter bays. CBC 1203.2
Check special inspection requirements on approved plans CBC 1707.3
All shear walls complete and approved (typically structural observation)

Other important considerations

- Zero lot line Parapets:
 - 1. Require non-combustible faces for at least 18" measured form the top down on roof side
 - 2. Parapet wall construction same fire rating as wall below
- Two layers of underlayment for roofs under 3/12
- Corrosion resistant fasteners required for tile roofs