



## MANDATORY PRESCRIPTIVE NOISE INSULATION REQUIREMENTS CHECKLIST

### Residential Building in the 60+ dB CNEL Noise Zone

These are minimum requirements and DO NOT apply to specific areas adjacent to railroad tracks, freeways, airports, etc. Please note that code requirements change over time; always check the current codes or ask the plans examiner to verify requirements.

PRESCRIPTIVE REQUIREMENTS	INCORPORATED IN DESIGN?*	
	<i>*If No, provide Acoustical analysis report</i>	
<b>EXTERIOR WALLS</b>		
Minimum 2x4" studs	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Exterior finish: 7/8" stucco, brick veneer, masonry. Wood/metal siding must be backed 1/2" solid sheathing.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Masonry walls (<40psf) must be supported by stud-wall w/ 5/8" gyp-board/plaster.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Wall Insulation: Minimum R-13 glass fiber/mineral wool installed throughout stud bay	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Exterior solid sheathing must be covered with overlapping asphalt felt.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Interior wall finish: 5/8" min. gyp-board/plaster.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>EXTERIOR WINDOWS</b>		
Openable windows: STC 40 dB min. and air infiltration rate of 0.5 cf/m max. in accordance w/ ASTM E-283.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Fixed Windows must be: <ol style="list-style-type: none"> <li>1. STC 40 dB, or</li> <li>2. 5/8-inch laminated glass STC 40 dB and set in non-hardening glazing material, or</li> <li>3. Glass block at least 3-1/2 inches thick</li> </ol>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Max glazing in sleeping rooms: Total area of glazing shall not exceed 20% of floor or wall area	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>EXTERIOR DOORS</b>		
Exterior hinged doors facing the source of the noise must be min. STC 40 dB.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Sliding glass doors not facing source of noise must be min STC 35 dB. Direct exposure not permitted.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Access doors from attached garage to residence interior: STC 30 dB min.	<input type="checkbox"/> Yes	<input type="checkbox"/> No



<b>ROOF/CEILING CONSTRUCTION</b>		
Roof rafters: slope of 4:12 min. w/ 1/2" solid sheathing and roofing.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Attic Insulation (batt or blow-in glass fiber or mineral wool): R-30 min. between ceiling joists.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Attic ventilation: 1. Gable vents or vents that penetrate the roof w/ 6' min. transfer ducts that are insulating flexible ducting or metal ducts w/ 1" fiberglass sound absorbing duct liner must have a 90-degree bend w/ no direct line of sight from the exterior, or 2. Noise control louver vents, or 3. Eave vents located under the eave overhang	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Ceilings: 5/8" gypsum wallboard/plaster and mounted on resilient channel.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Skylights: Completely enclosed light well from the roof opening to the ceiling opening w/ min. 3/16" plastic or laminated glass secondary openable glazing panel: 1. Mounted at the ceiling line, and 2. 4" min. between panels. Size not to exceed 20% of roof area of room.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>VENTILATION</b>		
Ventilation system: Fresh air supply min. 2 air exchanges without opening to the exterior. All concealed ductwork must be insulated flexible glass fiber ducting (10' min) between any two points of connection.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Kitchen cooktop vent hoods: Non-ducted recirculating type with no ducted connection to the exterior.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>FIREPLACES</b>		
Each fireplace: Provide a damper at the top of the chimney and glass doors at firebox	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>WALL AND CEILING OPENINGS</b>		
Openings in the shell (access panels, pet doors, mail delivery drops, air-conditioning) are prohibited unless designed to maintain the 45 dB CNEL (or less) standard.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>ADDITIONAL COMMENTS</b>		
Before the approval of a building permit, the applicant shall demonstrate compliance with the municipal code to reduce the interior noise level to 45 dBA or less by one of the following methods:		
Provision of an acoustical analysis report prepared by an acoustical engineer or firm and recommendations for noise attenuation measures to be applied.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Construction of exterior walls in compliance with City of Riverside Noise Insulation construction requirement per the requirements of this checklist.	<input type="checkbox"/> Yes	<input type="checkbox"/> No

*As the owner's project owner or authorized agent, I have read and understood the requirements listed above, and I certify that I will comply with these requirements.*

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Owner or Authorized Agent Printed Name

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Owner or Authorized Agent Signature