



**City of El Segundo**  
**Residential Noise Insulation Standards**  
**MANDATORY PRESCRIPTIVE REQUIREMENTS CHECKLIST**  
 Residential Building in the **70+** dB CNEL Noise Zone

Requirements	Incorporated in Design (Y/N) (If No, provide justification)	Verified	Date
<b>Exterior Walls - R341.1207.6.15</b>		<b>Inspector Use</b>	
4" studs			
Exterior finish: 7/8" stucco, brick veneer, masonry. Wood/metal siding must be backed 1/2" solid sheathing.			
Masonry walls (<40psf) must be supported by stud-wall w/ 5/8" gyp-board/plaster.			
Wall insulation: R-11 glass fiber/mineral wool installed throughout stud space.			
Exterior solid sheathing must be covered with overlapping asphalt felt.			
Interior wall finish: 5/8" min. gyp-board/plaster.			
<b>Exterior Windows - R341.1207.6.16</b>			
Openable windows: STC 40 dB min. and air infiltration rate of 0.5 cf/m max. in accordance w/ ASTM E-283.			
Fixed Windows must be:			
1. STC 40 dB, or			
2. 5/8-inch laminated glass with STC 40 dB and set in non-hardening glazing materials, or			
3. Glass block at least 3-1/2 inches thick.			
Max glazing in sleeping rooms: 20% of the lesser of floor or wall area.			
<b>Exterior Doors - R341.1207.6.17</b>			
Exterior hinged doors facing the source of the noise must be min. STC 40 dB.			
Exterior hinged doors that do not face the source of the noise must be min. STC 35 dB.			
Sliding glass doors not facing source of noise must be min STC 40 dB. Direct exposure not permitted.			
Access doors from attached garage to residence interior: STC 30 dB min.			
<b>Roof/Ceiling Construction - R341.1207.6.18</b>			
Roof rafters: slope of 4:12 min. w/ 1/2" solid sheathing and roofing.			
Attic insulation (batt or blow-in glass fiber or mineral wool): R-30 min. between ceiling joists.			
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			

Requirements	Incorporated in Design (Y/N) (If No, provide justification)	Verified	Date
<b>Roof/Ceiling Construction - cont.</b>			
2. Noise control louver vents, or			
3. Eave vents located under the eave overhang.			
Ceilings: 5/8" gypboard/plaster and mounted on resilient channel.			
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 or 2) 4" min. between panels. Size not to exceed 20% of roof area of room.			
<b>Ventilation - R341.1207.6.20</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.			
Kitchen cooktop vent hoods: Non-ducted recirculating type with no ducted connection to the exterior.			
<b>Fireplaces - R341.1207.6.21</b>			
Each fireplace: Provide a damper at the top of the chimney and glass doors at firebox.			
<b>Wall and Ceiling Openings - R341.1207.6.22</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.			
<b>Additional Comments:</b>			
If provided, the acoustical analysis shall be proven to meet the standard by providing post-construction/pre-occupancy acoustic measurement to verify compliance with the 45 dB CNEL standard.			

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

Print Name: \_\_\_\_\_

Owner or authorized agent

Print Name: \_\_\_\_\_

Acoustical Engineer

Signature: \_\_\_\_\_

Owner or authorized agent

Signature: \_\_\_\_\_

Acoustical Engineer

Print Name: \_\_\_\_\_

Contractor

Signature: \_\_\_\_\_

Contractor