



## Wood Framed Shear Wall Inspection Checklist

City of Rancho Palos Verdes Community Development Department

**This list comprises some of the common code violations when installing wood framed shear wall. It does not address every possible violation, nor is it intended as an instruction manual.**

- ✓ Verify with City approved stamped structural framing plans and architectural floor plans, the location and length of all shear walls to be installed.
- ✓ Verify the nailing of the sheathing agrees with the shear wall schedule.
- ✓ Nail Type i.e. common, galvanized box.
- ✓ Nail Diameter 8d or 10d etc.
- ✓ Nail Length (minimum penetration into framing 12 times nail diameter), and Spacing along each edge of each piece of Sheathing (6", 4", 3", etc.).
- ✓ Nail Head Shape (clipped heads not permitted).
- ✓ Nail Placement:
  - Driven flush but not overdriven.
  - Minimum 3/8" from sheathing edge to center of nail.
  - View the stud side to check for nails that missed framing.
  - Staggered along edges where spacing is 3 inches o.c. or less.
  - Edge nails into hold-down post.
- ✓ Verify sheathing material agrees with the structural notes and:
  - Type (Plywood or OSB); Grade (APA Rated Panel or APA Rated Panel-Structural 1).
  - Thickness (3/8, 15/32 ) ; Number of Ply's (if specified for plywood).
- ✓ Verify lumber size and grade agrees with the structural notes.
- ✓ Framing Grade of Studs & Posts (Stud, Construction, No. 2, and No. 1).
- ✓ Lumber Species (Douglas Fir Larch, Hem-Fir).
- ✓ Framing Size (3x studs, sill at heavily nailed edges, 2-2x, 4x or 6x at HD).

- ✓ Verify bottom of wall shear transfer (sill/sole plate) connection is based on the structural notes or sections and details.
- ✓ Nailing size and spacing of wall sole plate to floor framing below from shear walls schedule verify nails penetrate framing below.
- ✓ Foundation sill bolt diameter and spacing from shear wall schedule or notes.
- ✓ Bolts not less than 7 bolt diameters from ends of sill piece; not more than 12 inches from ends; not less than 1 inch from edge of sill plate; not less than 1 1/2 inches to edge of concrete foundation.
- ✓ Verify square plate washer is used on bolts.
- ✓ Verify bolt hole in sill plate is not more than 1/16" larger than bolt diameter.