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## Protection of Appliances Installed in Garages

Appliances (gas or electrical) installed in garages or other areas where they may be subjected to mechanical damage shall be protected (see detail back page).

### CODE REQUIREMENTS

#### 1. 2001 California Mechanical Code based on the 2000 Uniform Mechanical Code

**Section 303.1.3. Elevation of ignition source.** Equipment which has a flame, generates a spark or uses a glowing ignition source open to the space in which it is installed shall be elevated such that the source of ignition is at least 18 inches above the floor in Group S, Division 3, 4 or 5 and Group U, Division 1 Occupancies. When appliances installed with a Group U, Division 1 Occupancy are enclosed in a separate, approved compartment having access only from outside of the garage, such equipment may be installed at floor level, providing the required combustion air is taken from and discharged to the exterior of the garage. Such equipment shall not be installed in Group H Occupancies or control areas where open use, handling or dispensing of combustible, flammable or explosive materials occurs.

**Section 304.9 Protection from Damage.** Equipment shall not be installed in a location where it is subject to mechanical damage unless protected by approved, substantial barriers.

#### **Section 308. Equipment Supports and Restraints.**

**Section 308.1. General.** Equipment shall be supported by substantial bases or hangers capable to supporting the loads to which they will be subjected as determined by the Building Code. Stationary equipment shall be fixed in position by substantial means which will prevent its incidental displacement. Such restraint shall accommodate both vertical and lateral loads including, where applicable, wind, snow, and seismic as required by the Building Code.

**Section 308.2 Vibration Isolation.** When vibration isolation of equipment is employed, an approved means of supplemental restraint shall be used to accomplish the support and restraint required by this section.

**Section 308.3. Prohibited Conditions.** Piping, electrical conduit, ductwork, vents and the like shall not be used to provide support or restraint of equipment.

Where other portions of this code or provisions of the Building Code require noncombustible construction or supports, noncombustible material shall also be used to meet the requirements of this section.

#### 2. 2001 California Plumbing Code based on the 2000 Uniform Plumbing Code by IAPMO.

##### **Section 510.0. Protection from Damage.**

**Section 510.3.** All water heaters installed in areas where they may be subjected to mechanical damage shall be suitably guarded against such damage by being installed behind adequate barriers or by being elevated or located out of the normal path of vehicle using any such garage.

**Section 510.5.** In seismic zones 3 and 4, water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third (1/3) and lower one-third (1/3) of its vertical dimensions. At the lower point, a minimum distance of four (4) inches shall be maintained above the controls with the strapping.

- For complete water heater requirements, see the 2001 California Mechanical Code based on the 2000 Uniform Mechanical Code by I.C.B.O. and the 2001 California Plumbing Code based on the 2000 Uniform Plumbing Code by I.A.P.M.O.

