



# Patio Covers and Enclosures

CITY OF NEWARK, CALIFORNIA

BUILDING INSPECTION DIVISION

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## GENERAL

Patio covers and enclosures require building permits. This document addresses questions commonly raised by homeowners and contractors. The following information only addresses patio covers and enclosures, which are attached to a single-family dwelling. For information on stand-alone accessory structures, please refer to Building Inspection Form No. B-56 titled "Residential Accessory Structures."

## LOCATION

In general patio covers and enclosures must be set back at least five feet (5') from side property lines and fifteen feet (15') from rear property lines. However, setback standards differ throughout the City. Please call the City Planning Division at (510) 578-4330 for information specific to your property.

## SITE PLAN

When submitting plans for a permit, you will need to provide a site plan drawn to scale, showing the property lines, existing structures, proposed patio cover or enclosure with dimensions, and dimensions between the patio cover or enclosure and property lines and any other detached accessory structures.

## PROHIBITED USES

Patio covers and enclosures may not be used as carports, garages, storage rooms, living or family rooms, or other habitable rooms. **Enclosed patios cannot be heated.**

## ENCLOSED PATIOS

Appendix Chapter I of the California Building Code has been adopted by the City. It allows for the enclosure of normally open patios. If an enclosed patio covers a required exit or required window or emergency egress window, the Code imposes a number of requirements for such patios, which are listed below:

1. Patio enclosures must have two open sides. One side must be the longer of any of the sides of the patio. Sixty-five percent of the long exterior side and 65 percent of one of the shorter exterior sides below 6'-8" must be open. Only the area below 6'-8" from finish floor surface can be counted in the open areas. Areas counted as "open" are the net free areas of openings and include openings with screens or glazing. Support mullions between windows can not be included as open area.
2. Covered patios in which emergency egress or rescue openings from sleeping rooms open into a patio shall not be enclosed.
3. An enclosed patio may be installed over exterior openings in a dwelling which provide natural light and ventilation for the dwelling provided all the following standards are met;
  - a. Openings between the dwelling room and the patio enclosure shall be thermally isolated. Doors shall be weather stripped and windows shall be dual glazed.

- b. The new clear opening (doors and operable portions of windows) between the dwelling room and the patio enclosure shall be not less than 8 percent of the dwelling room floor area, but not less than 20 square feet.
  - c. The openable (doors and/or operable portions of windows) area of the patio enclosure walls shall be no less than 5 percent of the combined floor area of the dwelling room and patio enclosure.
  - d. The patio enclosure shall have at least one 3 foot wide by 6.7 foot high door opening to the exterior of the enclosure.
4. The required open areas can be enclosed with insect screening or glazed panels. Glazed panels shall meet the requirements of Chapter 24 of the California Building Code.
  5. Thresholds for patio enclosures must meet the same height requirements as imposed on other residential doors (1" maximum at interior landing and 8" maximum at exterior landing).

### **DRAWINGS – Wood Framed**

Wood framed patio covers can be built using standards shown in Building Inspection Form No. B-41 titled "Wood Patio Covers." You may also design your own. For complicated patio cover designs, assistance from a licensed architect or engineer may be required. Provide three copies of these drawings. You will also need to provide a site plan, drawn to scale showing the property lines, existing structures, proposed patio cover or enclosure with dimensions, and dimensions between the patio cover or enclosure and property lines and any other detached accessory structure. The City provides a form for the site plan.

### **DRAWINGS – Factory Built Modular**

There are a number of companies that manufacture and install metal patio covers and enclosures. These manufacturers provide standard drawings, which have been pre-approved by the International Conference of Building Officials (ICBO). Provide three copies of these drawings. You will also need to provide a site plan drawn to scale showing the property lines, existing structures, proposed patio cover or enclosure with dimensions, and dimensions between the patio cover or enclosure and property lines and any other detached accessory structure. The City provides a form for the site plan.

### **DRAWINGS – Light Duty Sheet Metal**

There are a number of retail stores that sell lightweight metal patio covers designed for the "do-it-yourself" person. The manufacturers of these units provide standard drawings, which have been pre-approved by the International Conference of Building Officials (ICBO). Provide three copies of these drawings. You will also need to provide a site plan drawn to scale showing the property lines, existing structures, proposed patio cover or enclosure with dimensions, and dimensions between the patio cover or enclosure and property lines and any other detached accessory structure. The City provides a form for the site plan.

### **FOUNDATIONS**

Patio covers and enclosures can be installed directly on new or existing concrete slabs provided the concrete is at least 3-1/2 inches thick, is in sound condition, and does not support posts with loads higher than 750 pounds. Depending on the weight of the patio cover, 50 to 60 square feet of patio roof equals 750 pounds.

## **ELECTRICAL**

Any electrical lights, switches, or outlets shall be installed per the California Electrical Code. Wiring shall be installed in metal or plastic electrical conduit (not plastic sprinkler pipe) or run within the structure. All electrical plugs shall be ground fault interrupted (GFI) protected. For enclosed patios, any new electrical wiring shall be fed by a new circuit. Extending an existing circuit is prohibited, unless it can be demonstrated that the area served by the extended circuit will be less than 640 square feet for 20 amp circuits or 480 square feet for 15 amp circuits (existing floor area plus new enclosed patio area).

## **INSPECTION – Open Side Wood Frame**

Most wood frame patio covers require only one inspection. This inspection will occur after the patio cover is finished unless footings are required. If footings are required, the first inspection will occur after the footings have been dug but before the concrete is poured, with the second inspection occurring after the patio cover is finished. The inspector will verify:

- Compliance with the approved plans
- Proper type and quantity of fasteners
- Layout in relation to property lines
- Proper roof panels
- Electrical wiring and GFI breakers, if any
- Minimum open area

## **INSPECTIONS – Factory Built Modular**

Factory built metal patio enclosures generally require two inspections.

**First Inspection** – Will occur after the wall base track and the track attached to the existing structure, which will support the roof, are installed but before any wall or roof panels are installed. The inspector will verify:

- Compliance with the approved plans
- Proper tracks at both sill and wall
- Proper type and quantity of fasteners
- Layout in relation to property lines
- Potential issues with existing or proposed landings

**Second inspection** – Will occur after the patio enclosure is finished. The inspector will verify:

- Proper wall and roof panels
- Proper type, quantity, and spacing of fasteners
- Location and size of landings
- Weather proofing at existing wall and new roof intersection
- Electrical wiring and GFI breakers (random panels should be left off so inspector can see wiring, which may be inside wall panels)
- New circuits, if needed
- Minimum open area
- Glazing or screen type

## **INSPECTIONS - Open Sided Light Duty Sheet Metal**

Most light duty sheet metal patio covers require only one inspection. This inspection will occur after the patio cover is finished. The inspector will verify:

- Compliance with the approved plans
- Proper type and quantity of fasteners
- Layout in relation to property lines
- Proper roof panels
- Electrical wiring and GFI breakers, if any
- Minimum open area

## **CONSTRUCTION VALUATION**

The construction valuation of all construction projects is recorded on the permit application. Construction valuations for patios are based on the floor area and a predetermined unit cost.

Open sided w/ roof.....	\$30 <sup>00</sup> /sf
Open sided arbor style-no roof .....	\$20 <sup>00</sup> /sf
Enclosed.....	\$45 <sup>00</sup> /sf

## **COST OF PERMITS**

The cost of a permit is based upon the number of inspections needed plus plan review costs and application fees. All projects will have a minimum plan review fee of \$49 (based on the Master Fee Schedule). Higher plan review fees may be due for complicated and/or custom designed patio covers and enclosures.

## **PLAN REVIEW**

All patio covers and enclosures require a plan review which normally can be accomplished over-the-counter while the applicant waits, provided both Building and Planning staff are available. In order for contractors of enclosed patios (sun rooms) to obtain an over-the-counter plan review they need to do the following:

- Provide three (3) sets of plans of the standardized drawing.
- Provide a site plan, drawn to scale showing the property lines, existing structures, proposed patio cover or enclosure with dimensions, and dimensions between the patio cover or enclosure and property lines and any other detached accessory structure. The City provides a form for the site plan.
- Provide a dimensioned floor plan drawn to scale showing the enclosure walls, in addition to window and door locations for both the patio and adjacent main dwelling.
- Circle the applicable details from the standard plans utilized for the subject project. Please use a heavy dark pen rather than yellow highlighter. Yellow highlighter will not microfilm.
- Provide calculations demonstrating compliance with the 65 percent open requirement (please note that mullions between window panels cannot be counted as open area.)