Attached
Residential
Patio Cover
Details
This information covers the basic requirements for the construction or replacement or a residential patio cover for single-family residence. A building permit is required for any attached addition to the residence including the construction of an attached patio cover or for the repair and replacement or an existing patio cover. Any electrical that is added to an existing patio cover also requires a permit. This should not be considered as a complete list of code requirements. Inspections must be passed before the work is considered completed by the City of Scottsdale.

A. DEFINITIONS
A patio cover is a one-story structure, not exceeding 12 feet in height, attached to the existing residence and is entirely open on two or more sides. Patio covers shall be used only for recreational and outdoor living purposes.

B. LOCATION
The location of the patio cover must meet the setback requirements for your property zoning. A copy of the City of Scottsdale standard zoning requirements is included. If your property is located in a planned community development with amended standards or if you do not know your zoning please contact the Planning and Development Services Department at 480-312-2500. NOTE: setbacks are measured from property lines.

C. PERMIT AND PLAN REQUIREMENTS

- Plot plan—provide a plot plan (see attached example) showing the streets, property lines, lot dimensions, location of the existing house on the lot and the location of the new patio cover. Provide the setback dimensions from property lines and any existing structures that may be adjacent to the building area. You may check with the City Records Department (480-312-2356) to see if there is an existing site plan on file for your property. If one is not available, you can get a copy of your subdivision lot showing the lot dimensions and any easements that may be on your property.
- Building plans—the attached building plans are for your use. You cannot exceed the building dimensions that are shown. Provide the actual dimensions and height of the building that you intend to build and label the use.
D. INSPECTION REQUIREMENTS

You will be provided an inspection card that will list and detail the required inspections. The following list is for your information and may vary depending on what you will be including in your building.

- A miscellaneous footing inspection.
- A rough framing inspection  NOTE: if you are providing electrical you will also need a rough electrical inspection.
- Wall board/drywall inspection (if being installed)
- A final inspection for framing and electrical (if applicable)

Phone Numbers:
Inspection Services  480-312-5750
Development Services-
Planning and Zoning Division  480-312-2500
Automated Inspection
Request Line  480-312-5796

ABBREVIATIONS:
W/N=WITHIN
O.C=ONCENTER
PRESS.=PRESSURE TREATED
P.U.E.=PUBLIC UTILITY EASEMENT
SITE PLAN
**EXAMPLE ONLY**

ADDRESS:
APN: XXX-XX-XXXX
Q.S.: XX-XX

SUBDIVISION:
LOT #:
ZONING:
LOT AREA: 8,000 SQ FT

EXISTING:
HOUSE: 2,143.26 SQ FT
GARAGE: 443.29 SQ FT

PROPOSED:
PATIO: 284.05 SQ FT
WALL: 75 LN FT
ADDITION: 311.58 SQ FT

PLEASE NOTE:
■ SITE PLAN MUST MATCH CONFIGURATION FOR YOUR LOT AND MUST BE SCALED
■ IF PROPOSED WALL IS ON THE PROPERTY LINE, MUST PROVIDE NEIGHBORING PROPERTY OWNER’S WRITTEN AUTHORIZATION
■ IF PROPOSED WALL IS IN A PUBLIC UTILITY EASEMENT, WRITTEN AUTHORIZATION IS REQUIRED FROM ALL UTILITY COMPANIES

PROVIDE 3 COPIES OF SITE PLAN

FEMA BLOCK

<table>
<thead>
<tr>
<th>Community Number</th>
<th>Panel Number</th>
<th>Panel Date</th>
<th>Suffix</th>
<th>FIRM Date</th>
<th>FIRM Zone</th>
<th>Base Flood Elevation (AO Zone, use depth)</th>
</tr>
</thead>
<tbody>
<tr>
<td>045012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10’-0” MAXIMUM SPAN
2 X 6 DOUG-FIR (D.F.)
#2 OR BETTER @ 2’-0”.

2’-0” MAX.
OVERHANG

1/2” OR EQUIVALENT
2X BLOCKING W/ SCREENED VENT

ROLLED ROOFING
OVER 1/2” CDX OR OSB
OVER 30# FELT

4 X 4 POST
D.F. #2 @ 8’-0” O.C.

4 X 8 BEAM
D.F. #2

6’-8” MINIMUM
10’-0” MAXIMUM

POST TO POST CENTER

POST 8’-0” O.C.

PATIO COVER
PATIO KEY SECTION

CENTERLINE OF POST AND FOOTING

4X4 POST

SIMPSON PBS44A OR EQUIVALENT

FINISH GRADE SLOPE
MIN. 5% FOR 10' AWAY FROM STRUCTURE

THRUBOLTS WITH MIN.
2" SQ. PLATE WASHERS,
(2) 1/2" OR 14 16d's

4" CONCRETE SLAB

4" ABC FILL
WITH 5 YEAR TERMITE TREAT

MINIMUM 18" BELOW UNDISTURBED SOIL OR ENGINEERED FILL

MINIMUM 24"X24"
CONCRETE FOOTING
W/ (3) #4 REINFORCING
BAR EACH WAY

3" MIN.

PATIO POST FOOTING
B - PATIO BEAM
   CONNECTION

1. GALVANIZED IRON DRIP EDGE
2. 2 X 8 FASCIA
3. PATIO BEAM, SEE PLAN FOR SIZE
4. PC44 OR EQUIVALENT
5. POST, SEE PLAN FOR SIZE
6. H2.5 @ EA. ROOF RAFTER
7. PATIO RAFTER, SEE PLAN FOR SIZE & SPACING
8. 1/2” CDX PLYWOOD SHEATHING
9. 2 x SOLID BLOCKING
10. EDGE NAILING 8d @ 6” O/C MIN.
11. 3–16d/BAY TOENAILING TO TOP PLATE

C - PATIO ROOF TO EXISTING HOUSE

1. CUT OVERHANG OFF, FLUSH W/ TOP PLATE
2. NOT USED
3. DOUBLE TOP PLATE
4. NEW JOISTS BEARING ON TOP PLATE, SEE PLAN FOR SIZE
5. EXISTING STUD WALL
6. H2.5 @ EA. ROOF RAFTER
7. 1/2” CDX PLYWOOD SHEATHING
8. 2 x SOLID BLOCKING
9. EDGE NAILING 8d @ 6” O/C MIN.
10. 3–16d/BAY TOENAILING TO TOP PLATE
11. MINIMUM TWO 10d NAIL
SUBJECT: SINGLE-FAMILY PATIO COVERS

All patio covers shall be protected with a one-hour fire-resistive wall under the following conditions:

1. Combustible patio covers located less than 3 feet from an adjacent property line.

2. Non-combustible patio covers located less than 1 foot, 6 inches from an adjacent property line.

Where the one-hour fire-resistive wall is required, a one-hour roof-ceiling assembly may be substituted in the following manner:

1) Where the roof-ceiling framing members are parallel to the one-hour wall, the one-hour roof-ceiling assembly shall extend at least 5 feet from wall.

2) Where the roof-ceiling framing members are perpendicular to the one-hour wall, the entire span of such framing shall be of not less than one-hour fire-resistive construction.

3) Openings in the roof shall not be located within 5 feet of the property line.
# Nailing Schedule

Include the Nailing Schedule in the Final Plans.

<table>
<thead>
<tr>
<th>Building Elements</th>
<th># and Type of Fastener</th>
<th>Spacing of Fasteners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joist to sill or girder, toe nail</td>
<td>3-8d</td>
<td></td>
</tr>
<tr>
<td>Sole plate to joist or blocking, face nail</td>
<td>16d</td>
<td>16 – o.c.</td>
</tr>
<tr>
<td>Top or sole plate to stud, end nail</td>
<td>2-16d</td>
<td></td>
</tr>
<tr>
<td>Stud to sole plate, toe nail</td>
<td>3-8d or 2-16d</td>
<td></td>
</tr>
<tr>
<td>Double studs, face nail</td>
<td>10d</td>
<td>24 – o.c.</td>
</tr>
<tr>
<td>Double top plates, face nail</td>
<td>10d</td>
<td>24 – o.c.</td>
</tr>
<tr>
<td>Sole plate to joist or blocking at braced wall panels</td>
<td>3-16d</td>
<td>16 – o.c.</td>
</tr>
<tr>
<td>Double top plates, minimum 48-inch offset of end joints, face nail in lapped area</td>
<td>8-16d</td>
<td></td>
</tr>
<tr>
<td>Blocking between joists or rafters to top plate, toe nail</td>
<td>3-8d</td>
<td></td>
</tr>
<tr>
<td>Rim joist to top plate, toe nail</td>
<td>8d</td>
<td>6 – o.c.</td>
</tr>
<tr>
<td>Top plates, laps at corners and intersections, face nail</td>
<td>2-10d</td>
<td></td>
</tr>
<tr>
<td>Built-up header, two pieces with ½ - spacer Edge</td>
<td>16d</td>
<td>16 – o.c. each</td>
</tr>
<tr>
<td>Ceiling joists to plate, toe nail</td>
<td>3-8d</td>
<td></td>
</tr>
<tr>
<td>Continuous header to stud, toe nail</td>
<td>4-8d</td>
<td></td>
</tr>
<tr>
<td>Ceiling joist, laps over partitions, face nail</td>
<td>3-10d</td>
<td></td>
</tr>
<tr>
<td>Ceiling Joist to parallel rafters, face nail</td>
<td>3-10d</td>
<td></td>
</tr>
<tr>
<td>Rafter to plate, toe nail</td>
<td>2-16d</td>
<td></td>
</tr>
<tr>
<td>1x brace to each stud and plate, face nail</td>
<td>2-8d</td>
<td></td>
</tr>
<tr>
<td>Built-up corner studs</td>
<td>10d</td>
<td>24 – o.c.</td>
</tr>
<tr>
<td>Roof rafters to ridge, valley to hip rafters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>toe nail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>face nail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rafter ties to rafters, face</td>
<td>3-8d</td>
<td></td>
</tr>
</tbody>
</table>

## Wood structural panels, subfloor, roof and wall sheathing to framing

<table>
<thead>
<tr>
<th>Fastener</th>
<th>edges</th>
<th>intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16 – ½</td>
<td>6d common nail (subfloor, wall)</td>
<td>6</td>
</tr>
<tr>
<td>8d common nail (roof)</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>19/32 – 1</td>
<td>8d common nail</td>
<td>6</td>
</tr>
<tr>
<td>1 1/8 – 1 ¼</td>
<td>10d common nail or 8d deformed nail</td>
<td>6</td>
</tr>
<tr>
<td>Cellulose fiberbd Sheathing</td>
<td>1 ½ galv. Roofing nail</td>
<td>3</td>
</tr>
</tbody>
</table>

a. All nails are smooth-common, box or deformed shanks except where otherwise stated.
b. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater
c. Four-foot-by-8-foot or 4-foot-by-9 foot panels shall be applied vertically.

For an online version of the Nailing Schedule, see [www.scottsdaleaz.gov/bldgresources/forms](http://www.scottsdaleaz.gov/bldgresources/forms).