Building Guide
Colorado Chapter of the International Code Council

Single Family Residential
Patio Covers & Carports

How to Use this Guide
Provide two sets of plans, drawn to scale and complete the following (hint: use graph paper with 1/4" squares. Example: 1/4" = 1') Check with your jurisdiction for additional requirements.

1 Complete this Building Guide by filling in the blanks on page two, and indicating which construction details will be used.

2 Provide 2 Plot Plans (site plan) showing dimensions of your project or addition and its relationship to existing buildings or structures on the property and the distance to existing property lines drawn to scale. See Page 2

3 Fill out a building permit application.
The majority of permit applications are processed with little delay. The submitted documents will help determine if the project is in compliance with building safety codes, zoning ordinances and other applicable laws.

The Colorado Chapter of the International Code Council is a professional organization seeking to promote the public health, safety and welfare to building construction. We appreciate your feedback and suggestions. To obtain a master copy of this building guide, please write to the Colorado Chapter of the International Code Council, P.O. Box 961, Arvada, CO 80001.
http://www.coloradochaptericc.org

This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances. Check with your Department of Building Safety for additional requirements.
This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances. Check with your Department of Building Safety for additional requirements.
Single Family Residential Patio Covers & Carports

Directions
1. Fill in the blanks with dimensions and materials which will be used to build the structure. Please print legibly.

2. Indicate in the check boxes which details from page 4 will be used. Please note if any of the sides of your carport addition are closer than 5'-0" to the property line, that side of the carport must be enclosed with a solid 1 hour fire rated wall as shown in Alternate Details B and C. You must however, keep at least two sides of the carport open to conform to the building code requirements. Zoning approval is required.

3. Roofing to be installed per manufacturer's instructions, including low slope application and required inspections made.

Roof covering
(example: Class A 3 tab shingles)

Underlayment
(example: 15# felt with 15' laps)

Size and Amount of Lags
(example: Two 1 1/2" x 4 1/2" lags @ 16" O.C.)

Sheathing
(example: 1/2" exterior plywood)

12 pitch

2x rafters spaced " O.C.
(example: 2 x 8 rafters spaced 24" O.C.)

Note: Walls, posts, and overhangs closer than 5' to the property line to be 1hr. rated

No closer than 2 feet to property line

Beam splices to occur over posts with 1 1/2" bearing

(x) "x" beam
(example: (2) 2"x10")

Span
(example: 12' 0")

Siding
(for Alternate B only)

"x" posts spaced apart
(example: 4"
(for Alternate C only)

Concrete Slab

Minimum Diameter Pier 8"
(size determined by load)

This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances. Check with your Department of Building Safety for additional requirements.
Single Family Residential Patio Covers & Carports

Detail A
- Existing roof rafters or trusses
- Galvanized metal purlins or rafter hangers
- Extend underlayment from new roof a minimum of 18" onto existing roof
- Cont. 2x ledger
- Remove existing fascia
- Existing wall
- Secure ledger to wall with lag screws @ 16" O.C.
- Locate lag screws to penetrate top plate or studs
- Note: Remove brick veneer at top of wall before installing continuous 2x ledger

Alternate Detail A
- Lap underlayment a minimum of 18" under existing roofing felts
- Solid 2x blocking on 2x12 or greater
- Roof tie downs required
- Existing wall
- Cont. 2x6 secured to existing roof with fasteners at each rafter or truss
- Existing Roof (remove existing shingles)

Detail B
- Solid 2x blocking on 2x12 or greater
- Roof tie downs required
- Galvanized metal post/beam connector

Alternate Detail B - 1 Hour Wall
- Solid 2x fire blocking on 2x12 or greater
- Roof tie downs required
- 5/8" type "X" exterior gypsum sheathing
- Galvanized metal post/beam connector
- Exterior siding
- Infill between posts w/ 2x4's @ 16" O.C.
- No closer than 2 feet to property line
- Two layers of 5/8" type "X" exterior gypsum board soffit
- Less than 5' to property line

Detail C
- Minimum 3 1/2" concrete slab
- Treated or decay resistive post
- Galvanized column base w/ 1" spacer to concrete
- 8" minimum diameter concrete caisson
- Anchor bolt 7" minimum penetration
- 3'-0" minimum
- Isolate from Slab

Alternate Detail C - 1 Hour Wall
- Bottom plate shall be treated wood
- Infill between posts w/ 2x4's @ 16" O.C.
- Minimum 3 1/2" concrete slab
- Galvanized column base w/ 1" spacer to concrete
- Isolate from Slab
- Check local building department for swelling soils. caissons may be required
- Anchor bolt 7" minimum penetration
- 3'-0" minimum
- Footing

This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances. Check with your Department of Building Safety for additional requirements.