

FOR ASSISTANCE VIEWING OR READING ANY CITY DOCUMENTS,

please call 970-221-6515 (V/TDD: Dial 711 for Relay Colorado) for assistance or contact the City's ADA Coordinator via email adacoordinator@fortcollins.gov or phone: 970-416-4254.

A Request for Reasonable Accommodation can also be completed online.

For more information about the City's Non-Discrimination policy and Accessibility efforts, visit <u>fortcollins.gov/Non-Discrimination</u>.





Contractor Licenses allowed to build decks: A, B, C, C2, D, D2, MM (MM does not include 2 story decks).

Homeowners Builders: See homeowner affidavit.

Any deck more than 30" at any point above grade requires a permit.

Any deck attached to the house requires a permit.

Any deck/landing that serves the front door requires a permit.

Any Deck more than 200 sq. ft. requires a permit.

Note: Repairs to any of the scenarios above also require a permit (i.e. replacement of beams/posts/joists, heavier decking material etc.

Required Inspections

- 1. Setbacks & Footings (pier hole)
- 2. Foundation (post connections)
- Rough Frame (must be called in before decking is installed). Rough Electric (if electric work is being done, prior to being concealed by fixtures/outlets).
- 4. Final Inspection and Final electric (if applicable)

Inspectors need to see all connections. Multiple rough frame inspections will need to be scheduled if using concealed connectors. Open pier hole needs to be inspected before pouring concrete into the hole.

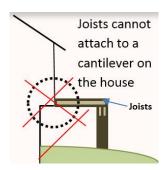
https://www.fcgov.com/building/inspections.php

Submittal Checklist (all documents must be in PDF format)

- □ Permit Application: include square footage of the deck and note if electrical work is included (lights, outlets)
 Name PDF: Apps – Address – v1.
 - Homeowner Affidavit (for homeowner builders)
- □ Site Plan (Name PDF: Site Plan Address v1)
- □ Plans (Name PDF: *Plans Address v1*)
 - o Floor Plan
 - Section/side view
 - Connection details
 - At least 1 before photo showing where the deck will be located.
 - Deck Guide filled out
- ☐ Plan check fee is due at submittal.
 - See step #6 https://www.fcgov.com/building/exterior-permits

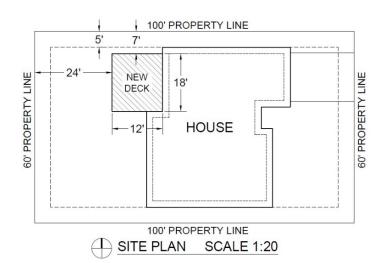
Engineered and stamped structural plans or letter are required to be submitted for any of the following conditions:

- 1. Multi-story / stacked decks
- 2. Beam supported by hangers
- 3. Deck is supported by a ledger attached to a cantilever/overhang on the existing house such as a bay window.
- 4. Decks attached to brick, masonry, or stone veneer.
- 5. Decks supporting a hot tub/pool.
- Steel decks that do not conform to section R505, including the use of steel beams, or steel decks for at locations
 West of Overland Trail (>140 mph wind region)
- 7. Materials not addressed in code
- 8. Designs outside of those presented in code





Provide the following drawings. All plans must be to scale. (example .: ¼ inch per foot). Can be hand-drawn, but PDF format

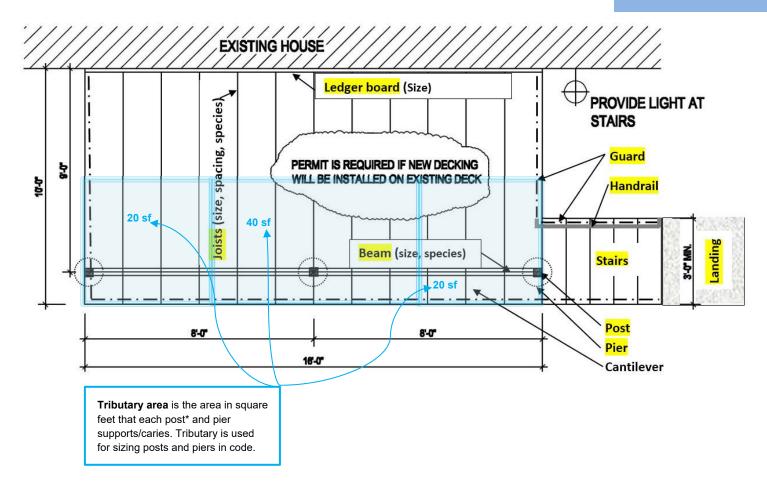


Site Plan

Site Plan Requirements:

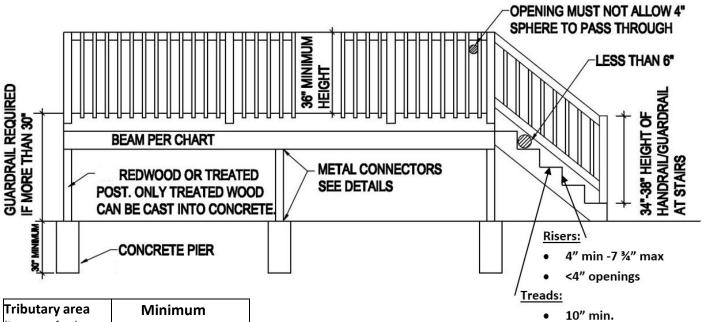
- Show location of the new deck in relation to the house
- Provide measurements from deck to property lines and other structures
 - Show overall length and width of the new deck
- Newer homes may have an existing site plan available through public records, which can be used to create the NEW site plan. https://records.fcgov.com/WebLink/

Floor Plan





Elevation (Side View)



Minimum Diameter of Round Pier (In inches)
8*
12*
16
19
22
25
27
29
31

See the link to code on page 5 for alternate pier/foundation types and sizes.

Based on tributary area and soilbearing pressure of 1500 PSF and a live load of 40 PSF (Table R507.3.1)

Guards

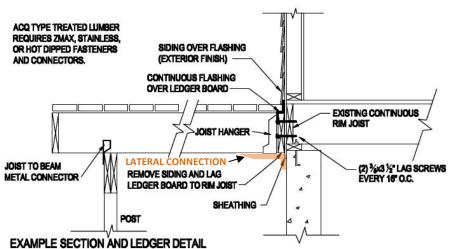
Guards are required for fall protection where the deck is 30" or more above grade measured at a point 5 ft away from the deck edge (local amendment to definition of grade).

- ☐ Openings in guards cannot exceed 4 inches
- ☐ For cable railing use 3" max spacing and a maximum of 4ft on center support post spacing.

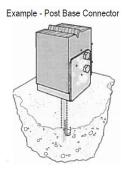
Exterior Guard attachment (R507.10)*:

- Guards mounted on top of the deck shall be connected to the deck joists or beams or blocking to transfer load to the adjacent joists.
- 2. Where guards are mounted on the side of a beam/joist shall be connected to the adjacent joist to prevent rotation. Fasteners shall not be installed in the end grain.





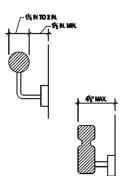
Details



Handrails

Handrails are required on at least one side of the stairs where there are 4 or more risers in a flight (landing to landing). Handrails must be graspable.

IRC Section: R311.7.8 - R311.7.8.6



Emergency Escape and Rescue Windows

Where decks are built over window wells that serve the required emergency escape and rescue opening (egress windows), a clear access height of 36" is required (measured from the top of the window well to the underside of the deck structure). **IRC R310.2.4**

Where a deck is adjacent to a window well, fall protection is required (window well cover or guardrail).

Lighting

Exterior wet listed light is required at the top landing to illuminate stairs. IRC Section R311.7.9

Landings

A solid level landing (i.e. flagstone, concrete or other improved surface) is required at the *top* and *bottom* of exterior deck stairs sized 36" min deep (in the path of travel) x 36" min wide (or width of stair) **IRC Section: R311.7.6**



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Residential Deck Guide

Check one of the following:				
	The deck is professionally engineered and stamped. Any fields not provided on the plans have been filled out below.			
	The porch/stairs are entirely concrete (fields below do not apply, but plans show height, stairs, guards, etc. per code)			
	The deck is designed to minimum code. (Fill in the sections below and show on plans).			

2021International Residential Code & local amendments: https://www.fcgov.com/building/codes.php

1. Access the code: https://codes.iccsafe.org/content/IRC2021P1/chapter-5-floors 2. Go to section R507.

Code section	Deck components	Select/Fill in the blank		
Decking				
R507.2 and R507.7	Decking Material			
	Orientation of decking to joists			
Joists				
Table 507.6	Wood Species			
(use 40 live load row)	(Redwood, Cedar etc. are species, <i>treated</i> is not a species)			
F: P507.6	Joist Size			
Figure R507.6	Joist Spacing / Joist Span			
	Do the joists cantilever? How far?			
Beams				
Table R507.5 (1)	Wood Species			
(40 PSF live load)	(Redwood, Cedar etc. are species, treated is not a species) Beam Size			
Section R507.5				
Section NSO7.5	Beam Span			
	Does the beam cantilever? How far?			
Posts*				
Table 507.4 (use 40 live load row)	Wood Species (Redwood, Cedar etc. are species, treated is not a species)			
(use 40 live load row)	Size of Post			
	Post Height			
Piers				
Figure R507.3	Type of footing/Piers	Show on plans		
Table 507.3.1	Depth of Pier	Freestanding deck = 12" min *		
(use 40 live load row, 1500 psf column)	'	☐ Attached Decks = 30" min frost depth		
R507.3	Size of pier	Show on plans		
Connection Details				
R507.4.1 & R507.3	Footing/pier to Post Connection	Show on plans		
R507.5.1 & R507.5.2	Post to Beam Connection	Show on plans		
R507.6.1 & R602.3.1	Joist to Beam Connection	Show on plans		
Table R507.9.1 Tables	Ledger Connection to house with flashing	Show on plans		
R507.9.3(1 & 2); R507.9.1.1	(2x8 min ledger size)			
Figure R507.9.1.3 (1 & 2)				
R507.9.2	Lateral Connection	Show on plans		
Figure R507.9.2 (1 or 2)		·		