TOWN OF
FARMINGTON

Permit Application for Decks, Porches & Railings

- This Application must be filled out completely and submitted to the building department.
- The permit will be issued when all review notes are addressed, insurances are on file, and permit fees are paid

Application Checklist

Incomplete applications will not be accepted

☐ Completed Application ☐ Plot plan showing proposed work ☐ Insurance

☐ Completed work sheet ☐ Drawing of proposed work

Address of Job Site_____ Work Start Date_____

Estimated Value of Work_____ Estimated End Date _____

Size (in sq. ft.): _____ Project Dimensions _____X_____

Railing Height: _____

Applicant's Name_____ Best phone #_____

Applicant's Address_____

Applicant's Email_____

Owner's Name_____ Best phone #_____

Owner's Address_____

Owner's Email_____

Contractor's Name_____ Best phone #_____

Contractor's Address_____

Contractor's Email_____

PLEASE DOUBLE CHECK EMAIL ADDRESSES.

The Applicant Shall, as part of this application, agree to:

- Notify the Building Department of any change in the information contained in the application or approved plans and specifications.
- Prominently display on the premises the building permit issued and authorize the inspector access for the purpose of inspections during construction.
- Not use any portion of the project, in whole or in part, until the structure meets all applicable codes, conditions, all inspections have been made, approvals granted and a certificate of compliance has been issued.
- Abide by Planning Board, Zoning Board of Appeals, Town Board approval resolutions, if required, and all plan amendments made by the Building Department.
- At the time of the issuance of a permit, a copy of approved plans will be kept at the work site, available for inspection throughout the progress of the work.
- Work may NOT Commence prior to the issuance of a building permit.
- Must Notify the Building Department 24 hours in advance for all required inspections and must receive approval before any building element, equipment, or system is covered or enclosed.

Acceptance does not relieve the agent, applicant, architect, builder, engineer, or owner from complying with any of the provisions of the NYS Building Code, Energy Code, SEQR Act, Local Zoning, etc., whether stated, implied, or omitted in the plans and specifications submitted for the building permit. Incorrect information may result in revocation of permit.

Signature of Applicant: _____ Date_____

Deck Address:

Town of Farmington
Deck Spec Sheet

Height of Deck from Grade _____ Inches

Joist Size (2 x 8" min.) _____

Actual Joist Span _____

Longest span from ledger to beam or beam to beam

Is the Joist going to cantilever ☐ Yes ☐ No

Spacing of Floor Joists (Check One)

☐ 16" On-Center

☐ 24" On-Center

☐ Other: _____

If Yes how far is cantilever _____ Cantilever shall be 2 feet or less

Beam Size: _____

Beam Span _____

(longest Span from post to post)

Beam Is Check One: ☐ Double ☐ Triple

Check One:

☐ 6 x 6" Post

☐ 6 x 4" Post

Check One:

☐ Notched Post

☐ Post Cap Connectors

☐ Deck will be attached to the house/structure

☐ Deck will NOT be attached to the house/structure

Size of Ledger Board _____

Lag Screw Size _____

Lag Screw Spacing _____

Footer Depth _____

If deck is attached to structure footers must Extend a minimum of 42" below grade

Decking Board to be used (check One)

☐ 5/4 P.T. Decking Board

☐ 2 x 6 P.T. Decking Board

☐ Composite Decking (All Types)

☐ Other: _____

If 30" or more above adjacent grade/surface, the deck shall have guardrails

Height of Deck Guardrails _____ Inches

(Min. height of guardrail is 36 inches from deck surfaces)

Will the deck have stairs ☐ Yes ☐ No

Gripable Handrail is required for all stairs that have a rise of more than 30"

Gripable Handrail Height (34" to 38" from tread Rising) _____

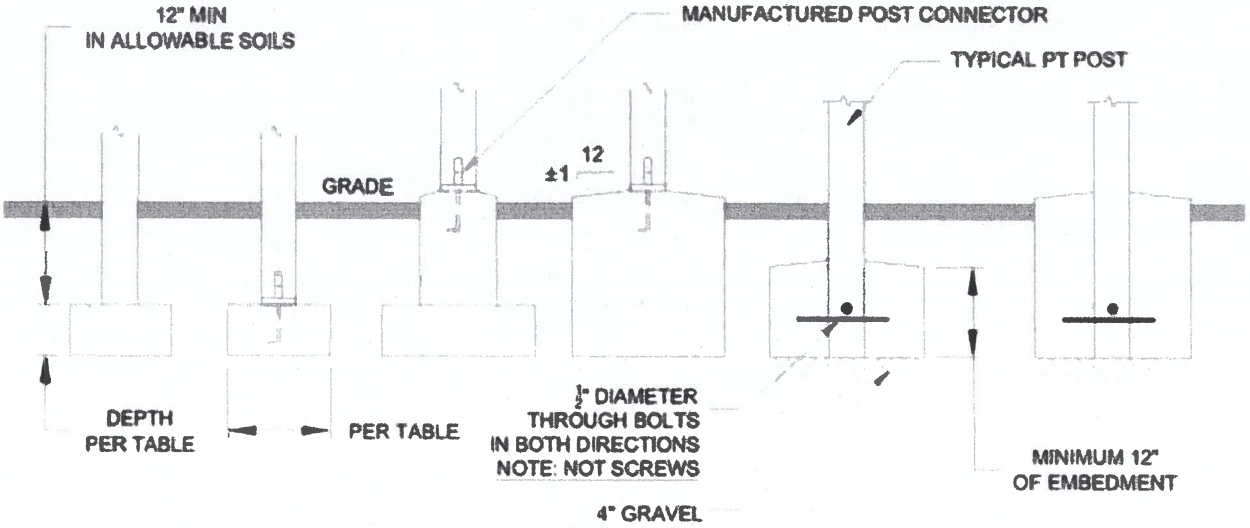
If Yes:

Stairway Width _____

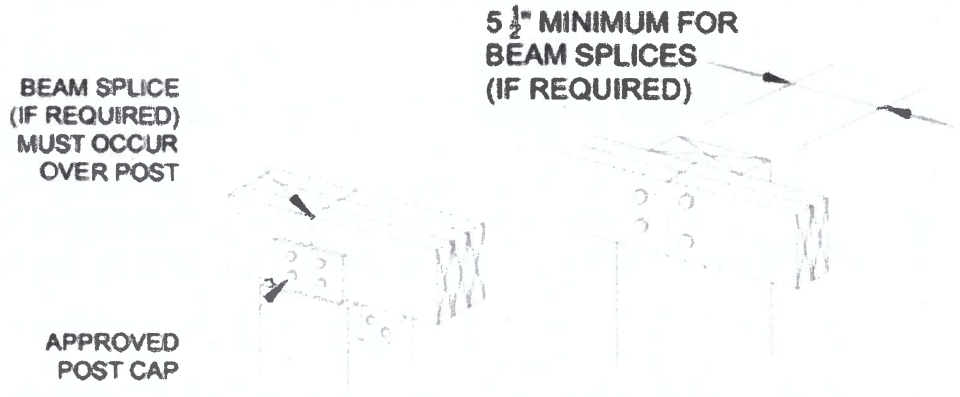
Tread Depth (9" Min) _____

Riser Height (8 1/4" Max) _____

Closed Risers required on all stairs



NOTE:
POSTS MUST BE CENTERED ON OR IN FOOTING



BEAM OVER POST CAP BEAM OVER POST

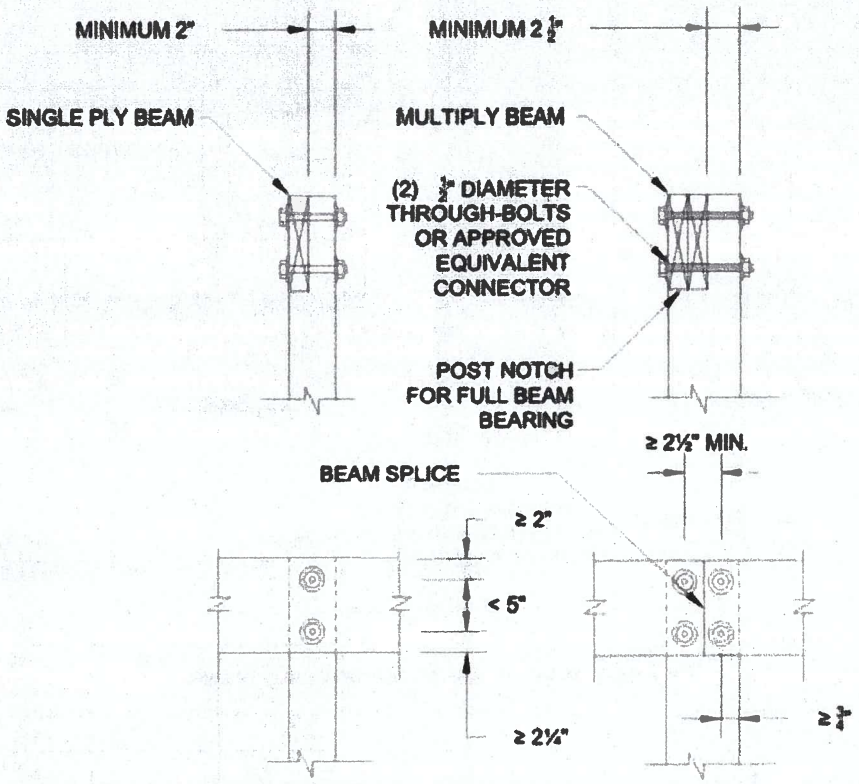

MINIMUM 2"
MINIMUM 2 ½"
SINGLE PLY BEAM
MULTIPLY BEAM
(2) ½" DIAMETER THROUGH-BOLTS OR APPROVED EQUIVALENT CONNECTOR
POST NOTCH FOR FULL BEAM BEARING
≥ 2½" MIN.
BEAM SPLICE
≥ 2"
< 5"
≥ 2¼"
≥ ¾"

TABLE R507.3.1
MINIMUM FOOTING SIZE FOR DECKS

LIVE OR GROUND SNOW LOAD[b] (psf)	TRIBUTARY AREA (sq. ft.)	LOAD BEARING VALUE OF SOILS [a, c, d] (psf)											
		1500[e]			2000[e]			2500[e]			≥ 3000[e]		
		Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)
40	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	14	16	6	12	14	6	12	14	6	12	14	6
	60	17	19	6	15	17	6	13	15	6	12	14	6
	80	20	22	7	17	19	6	15	17	6	14	16	6
	100	22	25	8	19	21	6	17	19	6	15	17	6
	120	24	27	9	21	23	7	19	21	6	17	19	6
	140	26	29	10	22	25	8	20	23	7	18	21	6
	160	28	31	11	24	27	9	21	24	8	20	22	7
50	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	15	17	6	13	15	6	12	14	6	12	14	6
	60	19	21	6	16	18	6	14	16	6	13	15	6
	80	21	24	8	19	21	6	17	19	6	15	17	6
	100	24	27	9	21	23	7	19	21	6	17	19	6
	120	26	30	10	23	26	8	20	23	7	19	21	6
	140	28	32	11	25	28	9	22	25	8	20	23	7
	160	30	34	12	26	30	10	24	27	9	21	24	8
60	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	16	19	6	14	16	6	13	14	6	12	14	6
	60	20	23	7	17	20	6	16	18	6	14	16	6
	80	23	26	9	20	23	7	18	20	6	16	19	6
	100	26	29	10	22	25	8	20	23	7	18	21	6
	120	28	32	11	25	28	9	22	25	8	20	23	7
	140	31	35	12	27	30	10	24	27	9	22	24	8
	160	33	37	13	28	32	11	25	29	10	23	26	9
70	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	18	20	6	15	17	6	14	15	6	12	14	6
	60	21	24	8	19	21	6	17	19	6	15	17	6
	80	25	28	9	21	24	8	19	22	7	18	20	6
	100	28	31	11	24	27	9	21	24	8	20	22	7
	120	30	34	12	26	30	10	24	27	9	21	24	8
	140	33	37	13	28	32	11	25	29	10	23	26	9
	160	35	40	15	30	34	12	27	31	11	25	28	9

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m^2, 1 pound per square foot = 0.0479 kPa.

a. Interpolation permitted, extrapolation not permitted.

b. Based on highest load case: Dead + Live or Dead + Snow.

c. Assumes minimum square footing to be 12 inches x 12 inches x 6 inches for 6 x 6 post.

d. If the support is a brick or CMU pier, the footing shall have a minimum 2-inch projection on all sides.

e. Area, in square feet, of deck surface supported by post and footings.

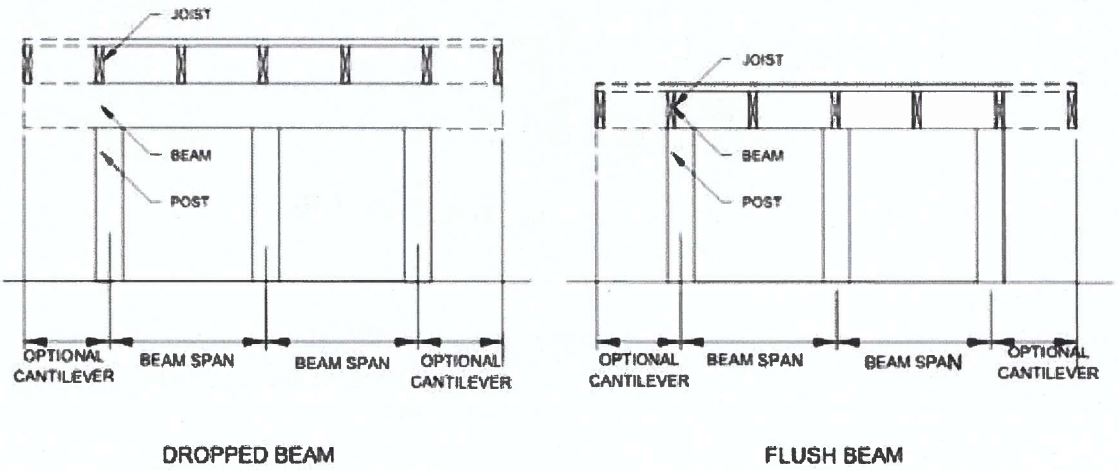


FIGURE R507.5
TYPICAL DECK JOIST SPANS

TABLE R507.5
DECK BEAM SPAN LENGTHS[a, b, g] (feet - inches)

SPECIES[c]	SIZE[d]	DECK JOIST SPAN LESS THAN OR EQUAL TO: (feet)						
		6	8	10	12	14	16	18
Southern pine	1 – 2 × 6	4-11	4-0	3-7	3-3	3-0	2-10	2-8
	1 – 2 × 8	5-11	5-1	4-7	4-2	2-10	3-7	3-5
	1 – 2 × 10	7-0	6-0	5-5	4-11	4-7	4-3	4-0
	1 – 2 × 12	8-3	7-1	6-4	5-10	5-5	5-0	4-9
	2 – 2 × 6	6-11	5-11	5-4	4-10	4-6	4-3	4-0
	2 – 2 × 8	8-9	7-7	6-9	6-2	5-9	5-4	5-0
	2 – 2 × 10	10-4	9-0	8-0	7-4	6-9	6-4	6-0
	2 – 2 × 12	12-2	10-7	9-5	8-7	8-0	7-6	7-0
	3 – 2 × 6	8-2	7-5	6-8	6-1	5-8	5-3	5-0
	3 – 2 × 8	10-10	9-6	8-6	7-9	7-2	6-8	6-4
	3 – 2 × 10	13-0	11-3	10-0	9-2	8-6	7-11	7-6
	3 – 2 × 12	15-3	13-3	11-10	10-9	10-0	9-4	8-10
Douglas fir-larch[e], hem-fir[e], spruce-pine-fir[e], redwood, western cedars, ponderosa pine[f], red pine[f]	3 × 6 or 2 – 2 x 6	5-5	4-8	4-2	3-10	3-6	3-1	2-9
	3 × 8 or 2 – 2 × 8	6-10	5-11	5-4	4-10	4-6	4-1	3-8
	3 × 10 or 2 – 2 × 10	8-4	7-3	6-6	5-11	5-6	5-1	4-8
	3 × 12 or 2 – 2 × 12	9-8	8-5	7-6	6-10	6-4	5-11	5-7
	4 × 6	6-5	5-6	4-11	4-6	4-2	3-11	3-8
	4 × 8	8-5	7-3	6-6	5-11	5-6	5-2	4-10
	4 × 10	9-11	8-7	7-8	7-0	6-6	6-1	5-8
	4 × 12	11-5	9-11	8-10	8-1	7-6	7-0	6-7
	3 – 2 × 6	7-4	6-8	6-0	5-6	5-1	4-9	4-6
	3 – 2 × 8	9-8	8-6	7-7	6-11	6-5	6-0	5-8
	3 – 2 × 10	12-0	10-5	9-4	8-6	7-10	7-4	6-11
	3 – 2 × 12	13-11	12-1	10-9	9-10	9-1	8-6	8-1

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 pound = 0.454 kg.

a. Ground snow load, live load = 40 psf, dead load = 10 psf, $L/\Delta = 360$ at main span, $L/\Delta = 180$ at cantilever with a 220-pound point load applied at the end.

b. Beams supporting deck joists from one side only.

c. No. 2 grade, wet service factor.

d. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.

e. Includes incising factor.

f. Northern species. Incising factor not included.

g. Beam cantilevers are limited to the adjacent beam's span divided by 4.

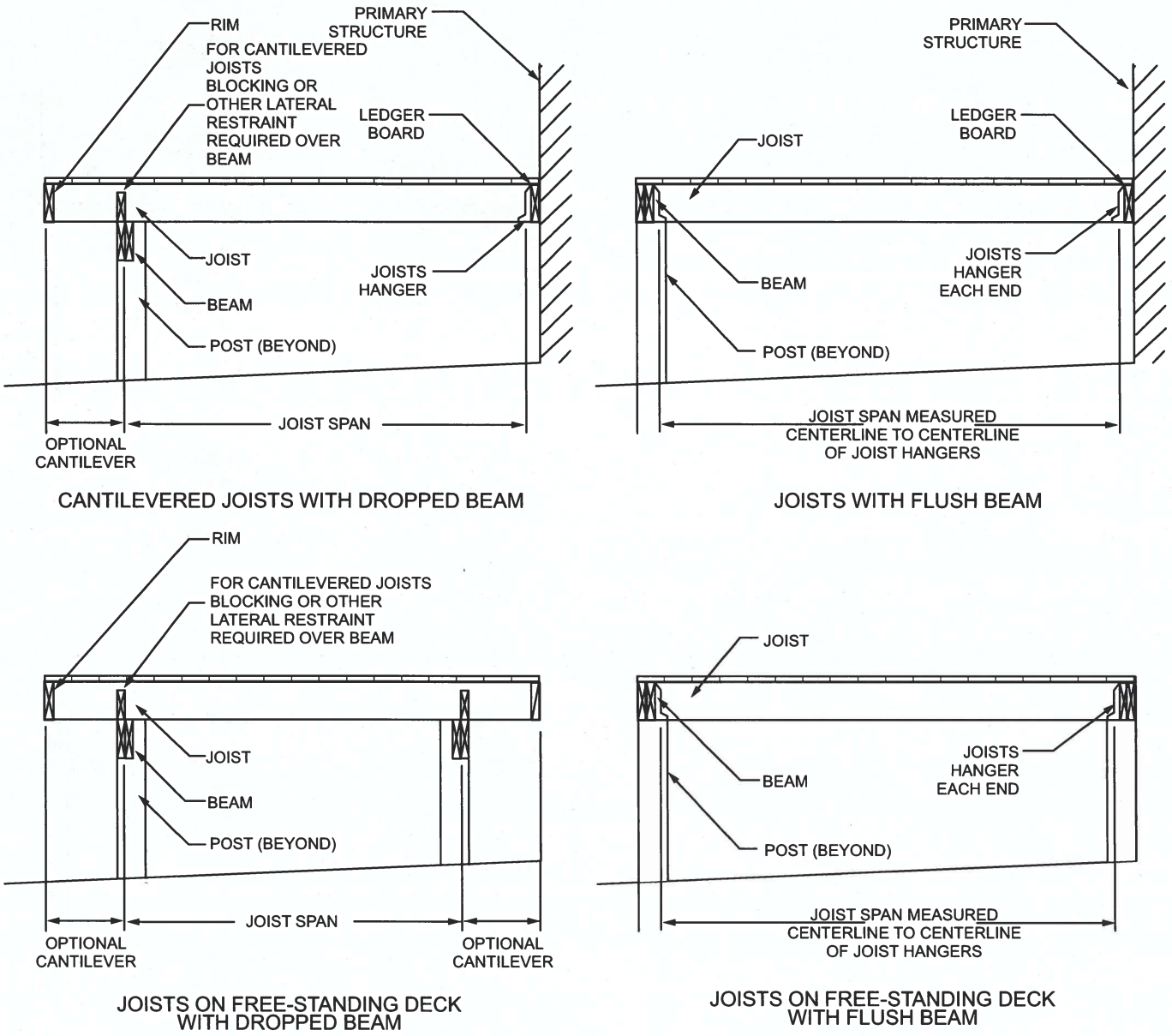


FIGURE R507.6
TYPICAL DECK JOIST SPANS

TABLE R507.6
DECK JOIST SPANS FOR COMMON LUMBER SPECIES (ft. - in.)

SPECIES[a]	SIZE	ALLOWABLE JOIST SPAN[b] SPACING OF DECK JOISTS (inches)			MAXIMUM CANTILEVER[c, f] SPACING OF DECK JOISTS WITH CANTILEVERS[c] (inches)		
		12	16	24	12	16	24
Southern pine	2 × 6	9-11	9-0	7-7	1-3	1-4	1-6
	2 × 8	13-1	11-10	9-8	2-1	2-3	2-5
	2 × 10	16-2	14-0	11-5	3-4	3-6	2-10
	2 × 12	18-0	16-6	13-6	4-6	4-2	3-4
Douglas fir-larch[d], hem-fir[d] spruce-pine-fir[d],	2 × 6	9-6	8-8	7-2	1-2	1-3	1-5
	2 × 8	12-6	11-1	9-1	1-11	2-1	2-3
	2 × 10	15-8	13-7	11-1	3-1	3-5	2-9
	2 × 12	18-0	15-9	12-10	4-6	3-11	3-3
Redwood, western cedars, ponderosa pine[e], red pine[e]	2 × 6	8-10	8-0	7-0	1-0	1-1	1-2
	2 × 8	11-8	10-7	8-8	1-8	1-10	2-0
	2 × 10	14-11	13-0	10-7	2-8	2-10	2-8
	2 × 12	17-5	15-1	12-4	3-10	3-9	3-1

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 pound = 0.454 kg.

a. No. 2 grade with wet service factor.

b. Ground snow load, live load = 40 psf, dead load = 10 psf, $L/\Delta = 360$.

c. Ground snow load, live load = 40 psf, dead load = 10 psf, $L/\Delta = 360$ at main span, $L/\Delta = 180$ at cantilever with a 220-pound point load applied to end.

d. Includes incising factor.

e. Northern species with no incising factor.

f. Cantilevered spans not exceeding the nominal depth of the joist are permitted.

TABLE R507.7
MAXIMUM JOIST SPACING FOR DECKING

DECKING MATERIAL TYPE AND NOMINAL SIZE	MAXIMUM ON-CENTER JOIST SPACING	
	Decking perpendicular to joist	Decking diagonal to joist[a]
$1^1/_4$-inch-thick wood	16 inches	12 inches
2-inch-thick wood	24 inches	16 inches
Plastic composite	In accordance with Section R507.2	In accordance with Section R507.2

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.01745 rad.

a. Maximum angle of 45 degrees from perpendicular for wood deck boards.

TABLE R507.9.1.3(1)
DECK LEDGER CONNECTION TO BAND JOIST[a, b]
(Deck live load = 40 psf, deck dead load = 10 psf, snow load ≤ 40 psf)

CONNECTION DETAILS	JOIST SPAN						
	6′ and less	6′1″ to 8′	8′1″ to 10′	10′1″ to 12′	12′1″ to 14′	14′1″ to 16′	16′1″ to 18′
	On-center spacing of fasteners						
1/2-inch diameter lag screw with 1/2-inch maximum sheathing[c, d]	30	23	18	15	13	11	10
1/2-inch diameter bolt with 1/2-inch maximum sheathing[d]	36	36	34	29	24	21	19
1/2-inch diameter bolt with 1-inch maximum sheathing[e]	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa.

a. Ledgers shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist.

b. Snow load shall not be assumed to act concurrently with live load.

c. The tip of the lag screw shall fully extend beyond the inside face of the band joist.

d. Sheathing shall be wood structural panel or solid sawn lumber.

e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard, lumber or foam sheathing. Up to 1/2-inch thickness of stacked washers shall be permitted to substitute for up to 1/2 inch of allowable sheathing thickness where combined with wood structural panel or lumber sheathing.

TABLE R507.9.1.3(2)
PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS

	MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS			
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING
Ledger[a]	2 inches[d]	3/4 inch	2 inches[b]	1 5/8 inches[b]
Band Joist[c]	3/4 inch	2 inches	2 inches[b]	1 5/8 inches[b]

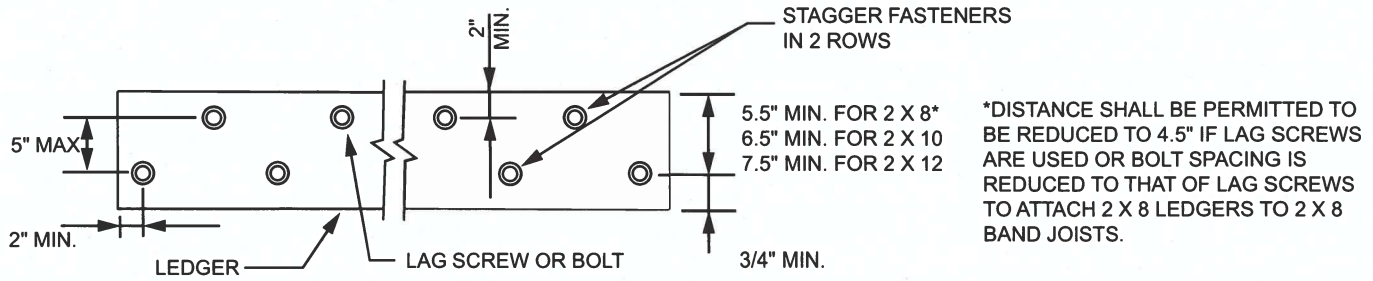
For SI: 1 inch = 25.4 mm.

a. Lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with Figure R507.9.1.3(1).

b. Maximum 5 inches.

c. For engineered rim joists, the manufacturer's recommendations shall govern.

d. The minimum distance from bottom row of lag screws or bolts to the top edge of the ledger shall be in accordance with Figure R507.9.1.3(1).



For SI: 1 inch = 25.4 mm.

FIGURE R507.9.1.3(1)
PLACEMENT OF LAG SCREWS AND BOLTS IN LEDGERS

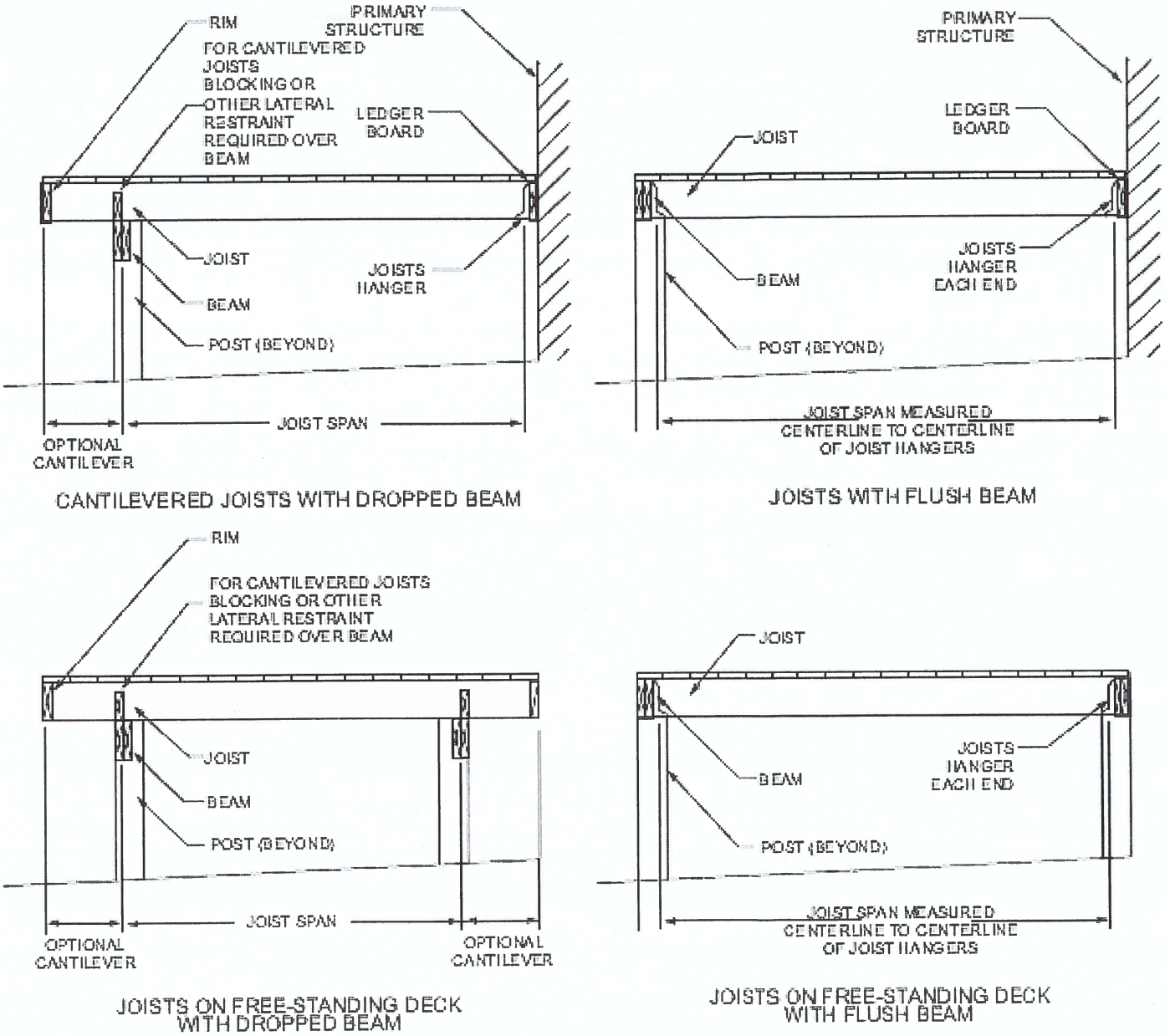


FIGURE R507.6
TYPICAL DECK JOIST SPANS

TOWN OF
FARMINGTON

1000 County Road 8, Farmington, New York 14425-9565
315-986-8100
www.townoffarmingtonny.com

Guide Lines for Handrails and Guards

Handrails and guards are two different components.

- A handrail is a horizontal or sloping rail intended for grasping by the hand for guidance or support.
- A guardrail is a building component located at the open sides of elevated walking surfaces and stairs that minimizes the possibility of a fall from the walking surface to the level below.

Handrails:

1. Handrails shall be continuous on at least one side of each continuous run stairs with 4 or more risers.
2. Top of handrails shall be placed no less than 34 inches or more than 38 inches above the stair nosing.
3. Handrails must be continuous the entire length of the stairs, from a point directly above the top riser to a point directly above the lowest riser, and return to a wall or post.
4. Handrails shall be placed at least 1-1/2 inches from any wall or other obstruction and cannot project more than 4-1/2 inches over the stairs.
5. The handgrip area shall not be less than 1-1/4 inches or more than 2-3/4 inches in width.

    a. Type I: Handrails with a circular cross section shall have an outside diameter of at least 1-1/4 inches and not greater than 2 inches. If the handrail is not circular it shall have a perimeter dimension of at least 4 inches and not greater than 6-1/4 inches with a maximum cross section dimension of 2-1/4 inches.

    b. Type II: Handrails with a perimeter greater than 6-1/4 inches shall provide a graspable finger recess area on both sides of the rail. The finger recess shall begin within a distance of 3/4 inch measured vertically from the tallest portion of the profile and achieve a depth of at least 5/16 inch within 7/8 inch below the widest portion of the profile. This required depth shall continue for at least 3/8 inch to a level that is not less than 1-3/4 inches below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1-1/4 inches to a maximum of 2-3/4 inches. Edges shall have a minimum radius of 0.01 inch.

Guards:

1. Decks, porches, balconies, ramps or raised floor surfaces located 30 inches or more above the floor or grade below shall have guards not less than 36 inches in height.

2. Porches and decks which are enclosed with insect screening shall be equipped with guards where the walking surface is located more than 30 inches above the floor or grade below.

3. Open sides of stairs with a total rise of more than 30 inches above the floor or grade below shall have guards not less than 34 inches in height measured vertically from the nosing of the treads.

4. The requirement for guards along open sides of stairs not only applies to the portion of a stairway that is more than 30 inches above the adjacent floor, but it also applies to any portion of a flight of stairs less than 30 inches above the floor.

5. All guards shall have intermediate rails or ornamental closures that prohibit the passage of a sphere 4 inches or more in diameter. The triangular openings formed by the riser, tread and bottom rail of a guard at the open side of a stairway are permitted to be of such a size that a 6-inch sphere cannot pass through.

6. When designed properly, the top rail of a guard can also serve as the required handrail.

TOWN OF
FARMINGTON

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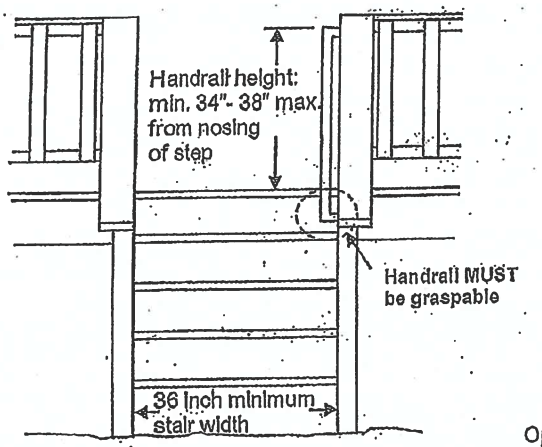
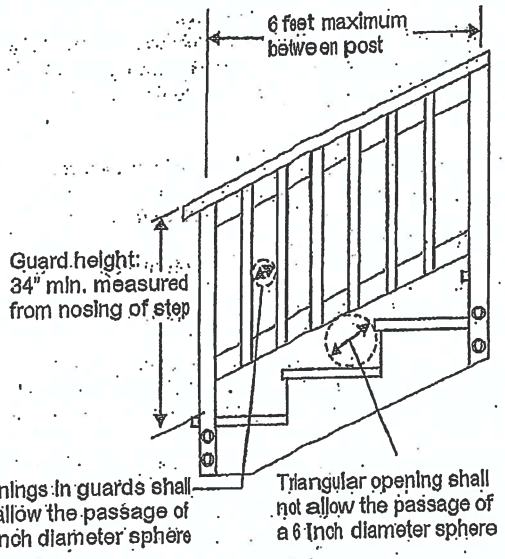
HANDRAIL AND GUARD for STAIRS DETAIL, TYPICAL

Handrails must be continuous the full length of stairs
And cannot be interrupted by any post.



Guards are required for stairs with a total rise of
30 inches or more.



Acceptable Handrail Profiles, typical