



Building Department Questions

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Minimum information for roofing submittal

1. Provide scope of work i.e.) tear off and replace roof covering or install over existing roof covering
2. How many layers of roof covering are installed before new roof covering?
3. Provide materials list.
4. Provide square footage of roofing.

Requirements for roofing inspections

1. Provide pictures of roof deck after roof covering has been removed. (if tear off)
2. Provide pictures of any replaced / repaired sheathing.
3. Provide pictures of flashing.
4. Provide pictures of ice barrier and underlayment.
5. Provide pictures of roof covering attachment.
6. Schedule a final inspection and have available on-site the pictures required in #1- #5

#1 - #5 pictures can alternatively be emailed to Plans@natinspect.com. If the pictures are emailed please provide the permit number and the address in the subject line.



What are the roof sheathing code requirements?

The 2019 Residential Code of Ohio Section 803.2.1 Wood structural panel sheathing identification and grade refers to Table 503.2.1.1(1). This table shows what the maximum span is for the sheathing based on the span rating of the sheathing and whether there is edge-support or not.

TABLE 503.2.1.1(1)
ALLOWABLE SPANS AND LOADS FOR WOOD STRUCTURAL PANELS FOR ROOF
AND SUBFLOOR SHEATHING AND COMBINATION SUBFLOOR UNDERLAYMENT^{a, b, c}

SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (inch)	ALLOWABLE LIVE LOAD (psf) ^{h, i}		MAXIMUM SPAN (inches)		LOAD (pounds per square foot, at maximum span)		MAXIMUM SPAN (inches)
		SPAN @ 16" o.c.	SPAN @ 24" o.c.	With edge support ^d	Without edge support	Total load	Live load	
Sheathing ^e				Roof ^f				Subfloor ^l
16/0	3/8	30	—	16	16	40	30	0
20/0	3/8	50	—	20	20	40	30	0
24/0	3/8	100	30	24	20 ^g	40	30	0
24/16	7/16	100	40	24	24	50	40	16
32/16	1 5/32, 1/2	180	70	32	28	40	30	16 ^h
40/20	1 9/32, 5/8	305	130	40	32	40	30	20 ^{h, i}
48/24	2 3/32, 3/4	—	175	48	36	45	35	24
60/32	7/8	—	305	60	48	45	35	32
Underlayment, C-C plugged, single floor ^a				Roof ^f				Combination subfloor underlayment ^l
16 o.c.	1 9/32, 5/8	100	40	24	24	50	40	16 ⁱ
20 o.c.	1 9/32, 5/8	150	60	32	32	40	30	20 ^{i, j}
24 o.c.	2 3/32, 3/4	240	100	48	36	35	25	24
32 o.c.	7/8	—	185	48	40	50	40	32
48 o.c.	1 3/32, 1 1/8	—	290	60	48	50	40	48

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

- a. The allowable total loads were determined using a dead load of 10 psf. If the dead load exceeds 10 psf, then the live load shall be reduced accordingly.
- b. Panels continuous over two or more spans with long dimension (strength axis) perpendicular to supports. Spans shall be limited to values shown because of possible effect of concentrated loads.
- c. Applies to panels 24 inches or wider.
- d. Lumber blocking, panel edge clips (one midway between each support, except two equally spaced between supports where span is 48 inches), tongue-and-groove panel edges, or other approved type of edge support.
- e. Includes Structural I panels in these grades.
- f. Uniform load deflection limitation: 1/180 of span under live load plus dead load, 1/240 of span under live load only.
- g. Maximum span 24 inches for 1 9/32 - and 1/2 -inch panels.
- h. Maximum span 24 inches where 3/4 -inch wood finish flooring is installed at right angles to joists.
- i. Maximum span 24 inches where 1.5 inches of lightweight concrete or approved cellular concrete is placed over the subfloor.
- j. Unsupported edges shall have tongue-and-groove joints or shall be supported with blocking unless minimum nominal 3/4 -inch-thick wood panel-type underlayment, fiber-cement underlayment with end and edge joints offset not less than 2 inches or 1 1/2 inches of lightweight concrete or approved cellular concrete is placed over the subfloor, or 3/4 -inch wood finish flooring is installed at right angles to the supports. Fiber-cement underlayment shall comply with ASTM C1288 or ISO 8336 Category C. Allowable uniform live load at maximum span, based on deflection of 1/360 of span, is 100 psf.
- k. Unsupported edges shall have tongue-and-groove joints or shall be supported by blocking unless nominal 1/2 -inch-thick wood panel-type underlayment, fiber-cement underlayment with end and edge joints offset not less than 2 inches or 3/4 -inch wood finish flooring is installed at right angles to the supports. Fiber-cement underlayment shall comply with ASTM C1288 or ISO 8336 Category C. Allowable uniform live load at maximum span, based on deflection of 1/360 of span, is 100 psf, except panels with a span rating of 48 on center are limited to 65 psf total uniform load at maximum span.
- l. Allowable live load values at spans of 16 inches on center and 24 inches on center taken from reference standard APA E30, APA Engineered Wood Construction Guide. Refer to reference standard for allowable spans not listed in the table.

Is ice barrier required?

Yes, Table 301.2(1) states that ice barrier is required. And not h states that in accordance with Sections 905.1.2, 905.4.3.1, 905.5.3.1, 905.6.3.1, 905.7.3.1 and 905.8.3.1, all jurisdictions in Ohio have a history of local damage from the effects of ice damming.

Is drip-edge required?

Section 905.2.8.5 Drip edge references Sections 903.1 and 905.1. These both call for the roof coverings to be installed in accordance with this code and the approved manufacturers' installation instructions. So, whether drip edge is required will be dependent on the manufacturers instructions of the product being installed.