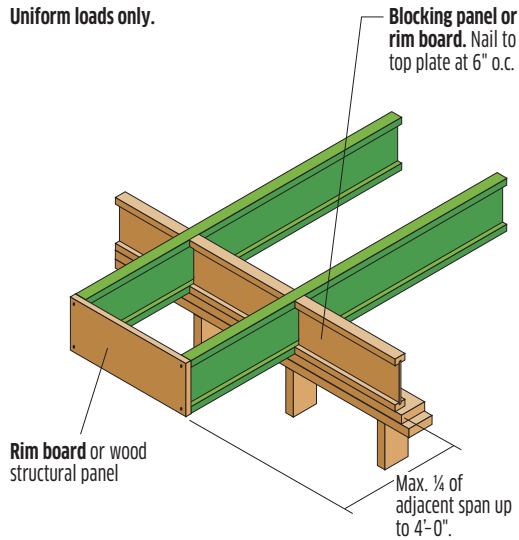


Cantilever Details & Reinforcement

F12 INTERIOR BALCONY

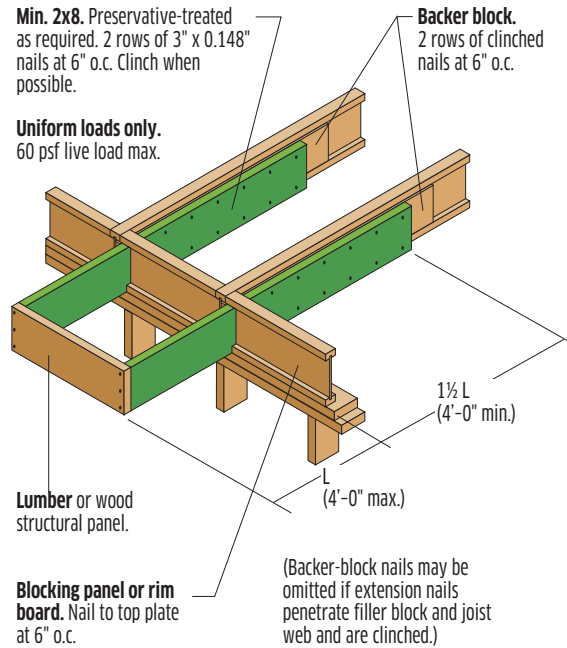
Uniform loads only.



F13 EXTERIOR BALCONY

Min. 2x8. Preservative-treated as required. 2 rows of 3" x 0.148" nails at 6" o.c. Clinch when possible.

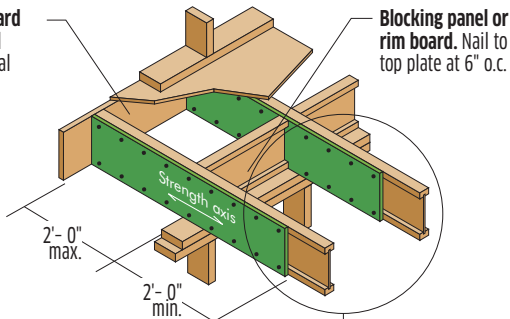
Uniform loads only.
60 psf live load max.



F14 REINFORCED CANTILEVER

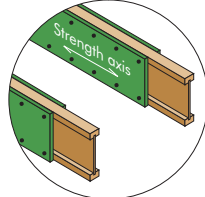
Method 1 – SHEATHING ONE SIDE

Rim board or wood structural panel



Method 2 – SHEATHING TWO SIDES

Stagger nails from opposite sides to avoid flange splitting.

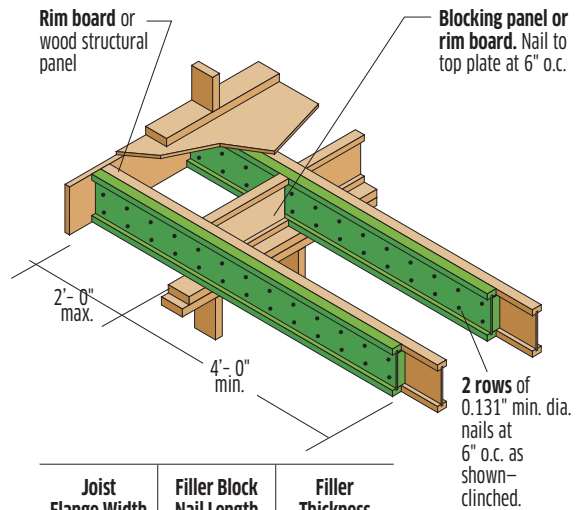


Method 1 and 2: Min. 23/32" sheathing-grade panels. Strength axis parallel to joist length. Reinforcement depth = joist depth. Nail to flanges at 6" o.c.

F15 REINFORCED CANTILEVER

Alternate Method 2 – I-JOIST ONE SIDE

Rim board or wood structural panel

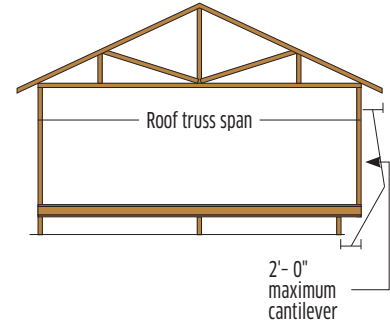


Joist Flange Width	Filler Block Nail Length	Filler Thickness
1½"	2½" min.	1½" or 1¼"
1¾"	3" min.	1½"
2⅛"	3" min.	1¾"
2⅝"	3¼" min.	2"
2½"	3½" min.	2" or 2¼"
3½"	3" min. ea. side	3"

Cantilever Reinforcement

JOISTS WITH 3/8" WEBS

Roof Truss		7½" Joist				9½" Joist				11½" Joist				14" Joist				16" Joist			
Load	Span (ft)	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
		35 psf Total Load (115%)	26	0	0	1	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0
28	0		0	1	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
30	0		0	1	X	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
32	0		0	1	X	0	0	WS	1	0	0	1	1	0	0	WS	1	0	0	1	1
34	0		1	2	X	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
36	0		1	2	X	0	0	1	2	0	0	1	2	0	0	1	1	0	0	1	1
38	0		1	2	X	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	1
40	0		1	2	X	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	1
45 psf Total Load (115%)	26	0	1	2	X	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	28	0	1	2	X	0	0	1	2	0	0	1	2	0	0	1	1	0	0	1	1
	30	0	1	2	X	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	1
	32	0	1	X	X	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2
	34	0	2	X	X	0	1	1	2	0	1	1	2	0	WS	1	2	0	0	1	2
	36	0	2	X	X	0	1	1	X	0	1	1	2	0	1	1	2	0	1	1	2
	38	0	2	X	X	0	1	1	X	0	1	1	2	0	1	1	2	0	1	1	2
	40	1	X	X	X	0	1	2	X	0	1	1	X	0	1	1	2	0	1	1	2
55 psf Total Load (115%)	26	0	2	X	X	0	0	1	2	0	1	1	2	0	0	1	2	0	0	1	2
	28	0	2	X	X	0	1	1	X	0	1	1	2	0	1	1	2	0	1	1	2
	30	0	2	X	X	0	1	1	X	0	1	1	2	0	1	1	2	0	1	1	2
	32	1	X	X	X	0	1	2	X	0	1	1	X	0	1	1	2	0	1	1	2
	34	1	X	X	X	0	1	2	X	0	1	2	X	0	1	2	X	0	1	2	X
	36	1	X	X	X	0	1	2	X	0	1	2	X	0	1	2	X	0	1	2	X
	38	1	X	X	X	1	1	X	X	0	1	2	X	0	1	2	X	0	1	2	X
	40	2	X	X	X	1	2	X	X	0	1	2	X	0	1	2	X	0	1	2	X



Notes:

- 0 = No reinforcement and no web stiffeners are required.
- WS = Web stiffeners are required at the support. Follow the web stiffener nailing requirements on page 93.
- 1 = Reinforcer required on one side of the cantilever. See the Method 1 detail on page 90.
- 2 = Reinforcers required on both sides of the cantilever. See the Method 2 or Alternate Method 2 detail on page 90.
- X = Consider deeper joists or closer spacing.

Table values apply to joists sized by means of the 10 psf dead load allowable residential floor spans table on pages 10-11 and are based on uniform loads across the ends of the cantilevers that include a 15 psf roof dead load and a 100 plf exterior wall load. Uniform loading may be assumed when window and door openings are up to three feet wide and spaced at least three feet apart. Otherwise, consider the need for extra joists under the window and door header jack studs.

Use sizing software or consult a professional engineer for conditions beyond the scope of this table.

JOISTS WITH 7/16" WEBS

Roof Truss		9½" Joist				11½" Joist				14" Joist				16" Joist			
Load	Span (ft)	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
		35 psf Total Load (115%)	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
34	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
36	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	WS
38	0		0	0	1	0	0	0	0	0	0	0	WS	0	0	0	WS
40	0		0	0	1	0	0	0	WS	0	0	0	WS	0	0	0	WS
45 psf Total Load (115%)	26	0	0	0	2	0	0	0	WS	0	0	0	WS	0	0	0	WS
	28	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	1	0	0	0	WS	0	0	0	WS	0	0	0	WS
	32	0	0	0	2	0	0	0	WS	0	0	0	WS	0	0	0	WS
	34	0	0	1	2	0	0	0	WS	0	0	0	WS	0	0	0	WS
	36	0	0	1	2	0	0	0	WS	0	0	0	WS	0	0	0	1
	38	0	0	1	X	0	0	0	1	0	0	0	1	0	0	0	1
	40	0	0	1	X	0	0	0	1	0	0	0	1	0	0	WS	1
55 psf Total Load (115%)	26	0	1	2	X	0	0	0	1	0	0	WS	1	0	0	WS	1
	28	0	0	0	2	0	0	0	WS	0	0	0	WS	0	0	0	WS
	30	0	0	1	X	0	0	0	1	0	0	0	1	0	0	0	1
	32	0	0	1	X	0	0	0	1	0	0	0	1	0	0	WS	1
	34	0	1	2	X	0	0	0	1	0	0	WS	1	0	0	WS	1
	36	0	1	2	X	0	0	WS	1	0	0	WS	1	0	0	WS	1
	38	0	1	2	X	0	0	WS	2	0	0	WS	2	0	0	WS	2
	40	0	1	2	X	0	0	1	2	0	0	1	2	0	0	1	2