APA PRODUCT REPORT®

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IB Series I-Joists
IB EWP Inc.

PR-L330
Revised June 15, 2024

Products: IB EWP IB Series I-Joists
IB EWP Inc., 480 rue Jocelyn-Bastille C.P. 10, Pohénégamook, Quebec, G0L 1J0, Canada
www.ibewp.com

1. Basis of the product report:
   - 2024 International Building Code (IBC): Sections 104.2.3 Alternative materials and 2303.1.2 Prefabricated wood I-joists
   - 2021, 2018, and 2015 International Building Code (IBC): Sections 104.11 Alternative materials and 2303.1.2 Prefabricated wood I-joists
   - 2024 International Residential Code (IRC): Sections R104.2.2 Alternative materials and R502.1.2 and R802.1.7 Prefabricated wood I-joists
   - 2021, 2018, and 2015 International Residential Code (IRC): Sections R104.11 Alternative materials, and R502.1.2 and R802.1.8 (2021 and 2018 IRC) Prefabricated wood I-joists
   - ASTM D5055-19e1, ASTM D5055-16, D5055-13e1, and D5055-13 recognized in the 2024 IBC and IRC, 2021 IBC and IRC, 2018 IBC and IRC, and 2015 IBC and IRC, respectively
   - APA PRI-400, Performance Standard for Residential I-Joists
   - 2021 and 2015 ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS) recognized in the 2024, and 2021, 2018, and 2015 IBC, respectively.
   - APA Reports T2000P-42A, T2001P-53, T2001P-63, T2001P-78, T2002P-65, T2003P-17, T2003P-18A, T2003P-52, T2005P-01A, T2005P-40B, T2005P-99A, T2006P-36, T2006P-43, T2006P-53, T2008P-37, T2009P-34A, T2010P-06, T2010P-49A, T2013P-31, T2014P-10, T2015L-05B, T2017P-25, T2019P-25A, T2019P-40, T2021P-34, and T2021P-52, and other qualification data

2. Product description:
   IB Series I-joists are made with lumber flanges and OSB web, as described in Table 1, and the in-plant manufacturing standard approved by APA.

3. Design properties:
   Tables 2 through 4 list the design properties for IB Series I-joists. Table 5 shows the allowable lateral shear capacities of IB Series I-Joists in diaphragm applications. The allowable spans for IB Series I-joists shall be in accordance with the recommendations provided by the manufacturer (www.ibewp.com), and with APA Design & Construction Guide, *Performance Rated I-Joists*, Form Z725 (www.apawood.org/resource-library) for products contained in the PRI Series.

4. Product installation:
   IB Series I-joists shall be installed in accordance with the recommendations provided by the manufacturer (see link above) and APA Z725 (see link above). Permissible web holes and cantilever reinforcements shall be in accordance with the recommendations provided by the manufacturer, and with APA Z725 for products contained in the PRI Series.

5. Fire-rated assemblies:
   Fire-rated assemblies shall be constructed in accordance with the recommendations provided by the manufacturer (see link above), APA Product Report PR-S330 (see link above), or APA Design & Construction Guide, *Fire-Rated Systems,* Form W305 (see link above). I-joists listed in this report may be used in the fire-rated assemblies described in the

2024, 2021, 2018, and 2015 IBC Table 721.1(3), as applicable, provided the I-joists meet the criteria described in the respective assemblies.

6. Limitations:
   a) IB Series I-joists shall be designed in accordance with the code using the design properties specified in this report.
   b) IB Series I-joists are limited to dry service conditions where the average equilibrium moisture content of solid-sawn lumber is less than 16%.
   c) All IB Series I-joists are produced at IB EWP Inc. facility in Pohénégamook, Quebec, under a quality assurance program audited by APA.
   d) This report is subject to re-examination in one year.

7. Identification:
   The IB Series prefabricated wood I-joists described in this report are identified by a label bearing the manufacturer's name (IB EWP Inc.) and/or trademark, the APA assigned plant number (1135), the I-joist depth and series, the APA logo, the report number PR-L330, and a means of identifying the date of manufacture.

Table 1. Description of IB Series I-Joists [(a)]

Joist Series	Joist Depths (in.)	Flanges				Web	
		Material	G[(b)]	Dimension		Material	Thickness (in.)
				Depth (in.)	Width (in.)		
IB400	7-7/8 – 16	Proprietary SPF	0.42	1-1/2	2-1/2	OSB	3/8
IB450	9-1/2 – 16	Proprietary SPF	0.42	1-1/2	3-1/2	OSB	3/8
IB600	7-7/8 – 20	MSR	0.46	1-1/2	2-1/2	OSB	3/8
IB700	9-1/2 – 16	MSR	0.42	1-1/2	3-1/2	OSB	3/8
IB800	7-7/8 – 20	MSR	0.46	1-1/2	3-1/2	OSB	3/8
IB900x	7-7/8 – 24	MSR	0.50	1-1/2	3-1/2	OSB	7/16

[(a)] Referenced dimensions are nominal. Tolerances are as specified in the in-plant quality manual.
[(b)] Specific gravity of flanges for use in diaphragm design (see Table 5) based on oven-dry weight and oven-dry volume.

Table 2. Design Properties (Allowable Stress Design) for IB Series I-Joists[a]

Joist Series	Joist Depth (in.)	Also Qualified for	EI[b] (10^6 lbf-in.^{2})	M[c] (lbf-ft)	V[d] (lbf)	VLC[e] (plf)	k[f] (10^6 lbf)
IB400	7-7/8	NA	123	2,235	1,155	2,000	4.10
	8-5/8	NA	153	2,495	1,155	2,000	4.49
	9-1/4	NA	185	2,715	1,155	2,000	4.81
	9-1/2	PRI-40	198	2,800	1,185	2,000	4.94
	11-1/4	NA	296	3,410	1,405	2,000	5.85
	11-7/8	PRI-40	336	3,630	1,480	2,000	6.18
	14	PRI-40	494	4,370	1,750	2,000	7.28
	16	PRI-40	673	5,065	2,000	2,000	8.32
IB450	9-1/2	PRI-40	240	2,915	1,400	2,000	4.94
	11-7/8	PRI-40	407	3,780	1,620	2,000	6.18
	14	PRI-40	596	4,455	1,815	2,000	7.28
	16	PRI-40	809	5,065	2,000	2,000	8.32
IB600	7-7/8	NA	145	3,080	1,155	2,000	4.10
	8-5/8	NA	181	3,440	1,155	2,000	4.49
	9-1/4	NA	220	3,740	1,350	2,000	4.81
	9-1/2	PRI-60	235	3,860	1,370	2,000	4.94
	11-1/4	NA	356	4,700	1,515	2,000	5.85
	11-7/8	PRI-60	399	5,000	1,570	2,000	6.18
	14	PRI-60	585	6,020	1,750	2,000	7.28
	16	PRI-60	799	6,980	2,000	2,000	8.32
	18	NA	1,046	7,895	2,250	1,750	9.36
	20	NA	1,304	8,735	2,500	1,500	10.40
IB700	9-1/2	PRI-60	270	3,965	1,400	2,000	4.94
	11-7/8	PRI-60	457	5,140	1,620	2,000	6.18
	14	PRI-60	668	6,190	1,815	2,000	7.28
	16	PRI-60	906	7,175	2,000	2,000	8.32
IB800	7-7/8	NA	204	4,360	1,155	2,000	4.10
	8-5/8	NA	254	4,870	1,155	2,000	4.49
	9-1/4	NA	307	5,295	1,390	2,000	4.81
	9-1/2	NA	326	5,465	1,405	2,000	4.94
	11-1/4	NA	493	6,655	1,540	2,000	5.85
	11-7/8	PRI-80	552	7,080	1,590	2,000	6.18
	14	PRI-80	807	8,530	1,835	2,000	7.28
	16	PRI-80	1,094	9,890	2,070	2,000	8.32
	18	NA	1,445	11,135	2,300	1,810	9.36
	20	NA	1,799	12,380	2,600	1,625	10.40
IB900x	7-7/8	NA	216	5,365	1,360	2,000	5.04
	8-5/8	NA	270	5,990	1,465	2,000	5.52
	9-1/2	NA	340	6,725	1,590	2,000	6.08
	11-7/8	NA	573	8,715	1,925	2,000	7.60
	14	PRI-90	836	10,490	2,125	2,000	8.96
	16	PRI-90	1,131	12,165	2,330	2,000	10.24
	18	NA	1,473	13,755	2,510	1,810	11.52
	20	NA	1,864	15,225	2,695	1,625	12.80
	22	NA	2,304	16,680	2,875	1,250	14.08
	24	NA	2,794	18,115	3,060	1,250	15.36

(footnotes on next page)

(a) The tabulated values are design values for normal duration of load. All values, except for EI and K, shall be permitted to be adjusted for other load durations as permitted by the code. Values for Limit States Design in Canada are available from the manufacturer.
(b) Bending stiffness (EI) of the I-joist.
(c) Moment capacity (M) of the I-joist.
(d) Shear capacity (V) of the I-joist.
(e) Uniform vertical (bearing) load capacity (VLC) of the I-joist.
(f) Coefficient of shear deflection (K). For calculating uniform load and center-point load deflections of the I-joist in a simple-span application, use Eqs. 1 and 2.

Uniform Load: $$\delta = \frac{5\,\omega L^4}{384\,EI} + \frac{\omega L^2}{K} \quad [1]$$

Center-Point Load: $$\delta = \frac{PL^3}{48\,EI} + \frac{2\,PL}{K} \quad [2]$$

where δ = calculated deflection (in.), ω = uniform load (lbf/in.),
P = concentrated load (lbf), L = design span (in.),
EI = bending stiffness of the I-joist (lbf-in.^{2}), and K = coefficient of shear deflection (lbf).

Table 3. Intermediate Reaction (Allowable Stress Design) for IB Series I-Joists[a]

Joist Series	Joist Depth (in.)	Also Qualified for	IR[b] (lbf)			
			3-1/2-in. Bearing		5-1/2-in. Bearing	
			w/o BS	w/ BS	w/o BS	w/ BS
IB400	7-7/8	NA	2,160	2,205	2,310	2,350
	8-5/8	NA	2,160	2,285	2,310	2,370
	9-1/4	NA	2,160	2,355	2,310	2,370
	9-1/2	PRI-40	2,160	2,370	2,370	2,370
	11-1/4	NA	2,500	2,795	2,810	2,810
	11-7/8	PRI-40	2,500	2,800	2,810	2,960
	14	PRI-40	2,500	2,825	3,100	3,455
	16	PRI-40	2,500	2,850	3,100	3,650
IB450	9-1/2	PRI-40	2,500	2,800	2,500	2,800
	11-7/8	PRI-40	2,500	3,240	2,910	3,240
	14	PRI-40	2,500	3,630	3,100	3,630
	16	PRI-40	2,500	4,000	3,100	4,000
IB600	7-7/8	NA	2,160	2,205	2,310	2,350
	8-5/8	NA	2,160	2,285	2,310	2,495
	9-1/4	NA	2,160	2,700	2,310	2,700
	9-1/2	PRI-60	2,160	2,740	2,370	2,740
	11-1/4	NA	2,500	3,030	2,810	3,030
	11-7/8	PRI-60	2,500	3,075	2,810	3,140
	14	PRI-60	2,500	3,215	3,100	3,455
	16	PRI-60	2,500	3,350	3,100	3,650
	18	NA	2,500	3,425	3,100	3,735
	20	NA	2,500	3,450	3,100	3,820
IB700	9-1/2	PRI-60	2,500	2,800	2,500	2,800
	11-7/8	PRI-60	2,500	3,240	2,910	3,240
	14	PRI-60	2,500	3,630	3,100	3,630
	16	PRI-60	2,500	4,000	3,100	4,000
IB800	7-7/8	NA	2,170	2,205	2,310	2,350
	8-5/8	NA	2,175	2,285	2,310	2,495
	9-1/4	NA	2,310	2,700	2,310	2,700
	9-1/2	NA	2,470	2,740	2,470	2,740
	11-1/4	NA	2,810	3,030	2,810	3,030
	11-7/8	PRI-80	2,815	3,180	3,140	3,180
	14	PRI-80	3,100	3,600	3,310	3,665
	16	PRI-80	3,100	4,000	3,340	4,100
	18	NA	3,100	4,225	3,100	4,225
	20	NA	3,100	4,350	3,100	4,350
IB900x	7-7/8	NA	2,835	3,100	2,855	3,150
	8-5/8	NA	2,935	3,150	2,950	3,190
	9-1/2	NA	3,045	3,205	3,060	3,235
	11-7/8	NA	3,355	3,355	3,355	3,355
	14	PRI-90	3,355	3,600	3,355	3,665
	16	PRI-90	3,355	4,000	3,355	4,100
	18	NA	3,355	4,270	3,355	4,640
	20	NA	3,355	4,600	3,355	4,810
	22	NA	3,355	4,855	3,355	4,870
	24	NA	3,355	4,925	3,355	4,925

(footnotes on next page)

(a) The tabulated values are design values for normal duration of load. All values shall be permitted to be adjusted for other load durations provided that the adjusted reaction design value is not greater than the value specified below. Bearing stiffeners shall be installed in accordance with the recommendations provided by the manufacturer and APA Z725.

Depth	I-Joist Series	Maximum adjusted reaction capacity(b,c) (lbf)			
		3-1/2 in. Brg. Length		5-1/2 in. Brg. Length	
		With Brg. Stiffeners		With Brg. Stiffeners	
		No	Yes	No	Yes
All	IB400	3,495		5,495	
	IB450	5,515		8,365	
	IB600	4,320		6,785	
	IB700	5,515		8,365	
	IB800	6,155		9,675	
	IB900x	7,210		11,330	

(b) Interpolation between 3-1/2- and 5-1/2-inch bearing lengths is permitted.
(c) The maximum adjusted reaction capacity shall not be adjusted for load duration.

Table 4. End Reaction Design Properties (Allowable Stress Design) for IB Series I-Joists[a]

Joist Series	Joist Depth (in.)	Also Qualified for	ER[b] (lbf)									
			1-1/2 in. Bearing		1-3/4 in. Bearing		2-3/4 in. Bearing		3-1/2 in. Bearing		4 in. Bearing	
			w/o BS	w/ BS	w/o BS	w/ BS	w/o BS	w/ BS	w/o BS	w/ BS	w/o BS	w/ BS
IB400	7-7/8	NA	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	NA	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	NA	1,110	1,155	1,115	1,155	1,155	1,155	1,155	1,155	1,155	1,155
	9-1/2	PRI-40	1,120	1,185	1,130	1,185	1,185	1,185	1,185	1,185	1,185	1,185
	11-1/4	NA	1,175	1,355	1,205	1,360	1,340	1,405	1,405	1,405	1,405	1,405
	11-7/8	PRI-40	1,200	1,420	1,230	1,430	1,370	1,480	1,465	1,480	1,480	1,480
	14	PRI-40	1,260	1,630	1,295	1,645	1,455	1,750	1,550	1,750	1,550	1,750
	16	PRI-40	1,325	1,825	1,355	1,845	1,455	2,000	1,550	2,000	1,550	2,000
IB450	9-1/2	PRI-40	1,150	1,365	1,175	1,370	1,275	1,385	1,350	1,395	1,400	1,400
	11-7/8	PRI-40	1,235	1,565	1,265	1,575	1,375	1,595	1,465	1,610	1,520	1,620
	14	PRI-40	1,315	1,745	1,345	1,755	1,460	1,785	1,560	1,805	1,625	1,815
	16	PRI-40	1,385	1,915	1,420	1,925	1,555	2,000	1,655	2,000	1,725	2,000
IB600	7-7/8	NA	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	NA	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	NA	1,110	1,155	1,130	1,350	1,155	1,350	1,155	1,350	1,155	1,350
	9-1/2	PRI-60	1,120	1,185	1,140	1,370	1,185	1,370	1,185	1,370	1,185	1,370
	11-1/4	NA	1,175	1,355	1,215	1,515	1,340	1,515	1,405	1,515	1,405	1,515
	11-7/8	PRI-60	1,200	1,420	1,240	1,570	1,370	1,570	1,465	1,570	1,480	1,570
	14	PRI-60	1,260	1,630	1,335	1,750	1,460	1,750	1,550	1,750	1,550	1,750
	16	PRI-60	1,325	1,825	1,420	1,925	1,495	1,970	1,550	2,000	1,550	2,000
	18	NA	NA	NA	1,505	2,095	1,530	2,185	1,550	2,250	1,550	2,250
	20	NA	NA	NA	1,550	2,260	1,550	2,395	1,550	2,500	1,550	2,500
IB700	9-1/2	PRI-60	1,150	1,365	1,175	1,370	1,275	1,385	1,350	1,395	1,400	1,400
	11-7/8	PRI-60	1,235	1,565	1,265	1,575	1,375	1,595	1,465	1,610	1,520	1,620
	14	PRI-60	1,315	1,745	1,345	1,755	1,460	1,785	1,560	1,805	1,625	1,815
	16	PRI-60	1,385	1,915	1,420	1,925	1,555	2,000	1,655	2,000	1,725	2,000
IB800	7-7/8	NA	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	NA	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	NA	1,110	1,155	1,130	1,380	1,155	1,380	1,155	1,380	1,155	1,390
	9-1/2	NA	1,120	1,185	1,140	1,405	1,185	1,405	1,185	1,405	1,185	1,405
	11-1/4	NA	1,175	1,355	1,215	1,540	1,340	1,540	1,405	1,540	1,405	1,540
	11-7/8	PRI-80	1,260	1,590	1,290	1,590	1,405	1,590	1,490	1,590	1,550	1,590
	14	PRI-80	1,335	1,795	1,365	1,800	1,470	1,815	1,550	1,830	1,600	1,835
	16	PRI-80	1,410	1,990	1,435	2,000	1,530	2,030	1,550	2,055	1,600	2,070
	18	NA	NA	NA	1,505	2,270	1,530	2,285	1,550	2,300	1,600	2,300
	20	NA	NA	NA	1,550	2,460	1,550	2,540	1,550	2,600	1,650	2,600
IB900x	7-7/8	NA	1,255	1,275	1,265	1,285	1,310	1,320	1,340	1,345	1,360	1,360
	8-5/8	NA	1,285	1,335	1,305	1,350	1,375	1,405	1,425	1,440	1,460	1,465
	9-1/2	NA	1,320	1,405	1,345	1,425	1,450	1,500	1,525	1,555	1,575	1,590
	11-7/8	NA	1,400	1,600	1,400	1,635	1,630	1,765	1,790	1,860	1,885	1,925
	14	PRI-90	1,400	1,800	1,400	1,800	1,630	1,870	1,805	1,960	1,885	2,125
	16	PRI-90	1,420	1,990	1,435	2,000	1,640	2,190	1,805	2,330	1,885	2,330
	18	NA	NA	NA	1,505	2,270	1,600	2,405	1,675	2,510	1,885	2,510
	20	NA	NA	NA	1,520	2,470	1,600	2,590	1,675	2,680	1,885	2,695
	22	NA	NA	NA	1,470	2,595	1,585	2,725	1,675	2,820	1,865	2,875
	24	NA	NA	NA	1,470	2,880	1,585	2,925	1,675	2,960	1,820	3,060

(footnotes on next page)

(a) The tabulated values are design values for normal duration of load. All values shall be permitted to be adjusted for other load durations provided that the adjusted reaction design value is not greater than the value specified below. Bearing stiffeners shall be installed in accordance with the recommendations provided by the manufacturer and APA Z725.

Depth	I-Joist Series Designation	Maximum adjusted reaction capacity[b,c] (lbf)									
		1 1/2 in. Brg. Length		1-3/4 in. Brg. Length		2-3/4 in. Brg. Length		3-1/2 in. Brg. Length		4 in. Brg. Length	
		With Brg. Stiffeners		With Brg. Stiffeners		With Brg. Stiffeners		With Brg. Stiffeners		With Brg. Stiffeners	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
All	IB400	1,500		1,750		2,745		3,495		3,995	
	IB450	2,135		2,490		3,915		4,985		5,695	
	IB600	1,850		2,160		3,395		4,320		4,935	
	IB700	2,135		2,490		3,915		4,985		5,695	
	IB800	2,640		3,080		4,835		6,155		7,035	
	IB900x	3,090		3,605		5,665		7,210		8,240	

(b) Interpolation between bearing lengths is permitted.
(c) The maximum adjusted reaction capacity shall not be adjusted for load duration.

Table 5. Allowable Shear (Pounds Per Foot) for Horizontal Wood Structural Panel Diaphragms Framed with IB Series I-Joists for Wind[a] or Seismic Loading[b,c]

Panel Grade	Common Nail Size	Minimum Nominal Panel Thickness (in.)	Minimum Nominal Width of Framing Members at Adjoining Panel Edges and Boundaries[e] (in.)	Blocked Diaphragms			Unblocked Diaphragms	
				Nail spacing (in.) at diaphragm boundaries (all cases), at continuous panel edges parallel to load (Cases 3 & 4), and at all panel edges (Cases 5 & 6)[f,g]			Nails Spaced 6 in. max. at supported edges[f,g]	
				6	4[h]	2-1/2[i]	Case 1 (No unblocked edges or continuous joints parallel to load	All other configurations (Cases 2, 3, 4, 5 &6)
				Nail spacing (in.) at other panel edges (Cases 1, 2, 3, & 4)				
				6	6	4		
Structural I Grades	6d[d]	5/16	3	210	280	420	185	140
	8d	3/8		300	400	600	265	200
	10d	15/32		360	480	720	320	240
Sheathing, single floor and other grades covered in DOC PS 1 and PS 2	6d[d]	5/16		190	250	380	170	125
		3/8		210	280	420	185	140
	8d	3/8		270	360	540	240	180
		7/16		285	380	570	255	190
		15/32		300	400	600	265	200
	10d	15/32		325	430	650	290	215
		19/32		360	480	720	320	240

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbf = 4.448 N, 1 lbf/ft = 0.0146 N/mm.

(Footnotes on next pages)

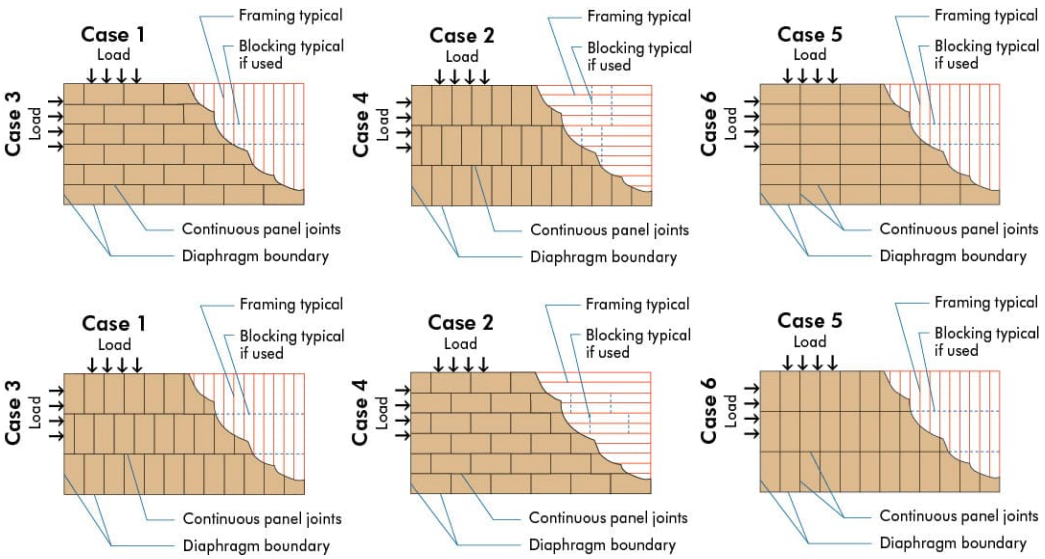

Figure 1. Diaphragm configurations

(a) For wind load applications, the values in the table above shall be permitted to be multiplied by 1.4.
(b) For shear loads of normal or permanent load duration as defined by the NDS, the values in the table above shall be multiplied by 0.63 or 0.56, respectively.
(c) The tabulated allowable shear capacities are for I-joist series with flanges having a specific gravity (G) of 0.50 or higher (see Table 1). For G < 0.50 the allowable shear capacities shall be reduced by multiplying the allowable shear capacities by the Specific Gravity Adjustment Factor = [1-(0.5-G)]. The Specific Gravity Adjustment Factor shall not be greater than 1.
(d) 8d common nails minimum are recommended for roofs due to negative pressures of high winds.
(e) The minimum nominal width of framing members not located at boundaries or adjoining panel edges shall be 2 inches.
(f) Space nails maximum 12 inches o.c. along intermediate framing members (6 inches o.c. when supports are spaced 48 inches o.c. or greater).
(g) Fasteners shall be located 3/8 inch from panel edges (see Figures 2, 3, and 4).
(h) Adjacent nails within a row must be staggered ½ inch when nail spacing is 4 inches or less (see Figure 3).
(i) Adjacent nails within a row must be staggered ½ inch at adjoining panel edges when nail spacing is 2-½ inches o.c. (see Figure 4).

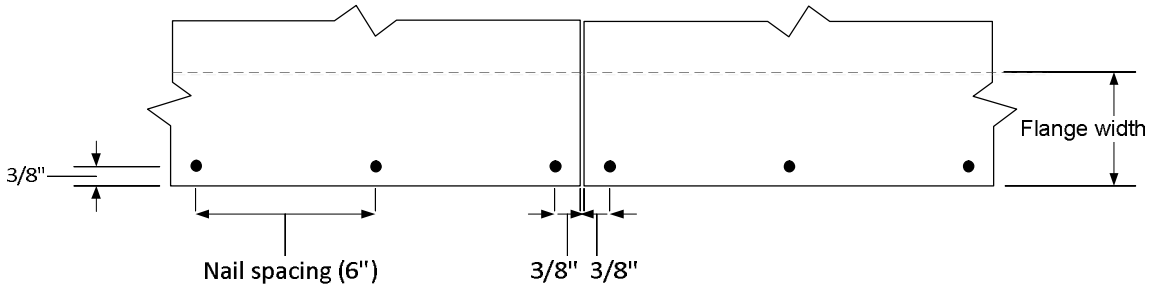

Figure 2. Non-staggered nails at diaphragm boundaries (see Footnote g), not to scale.

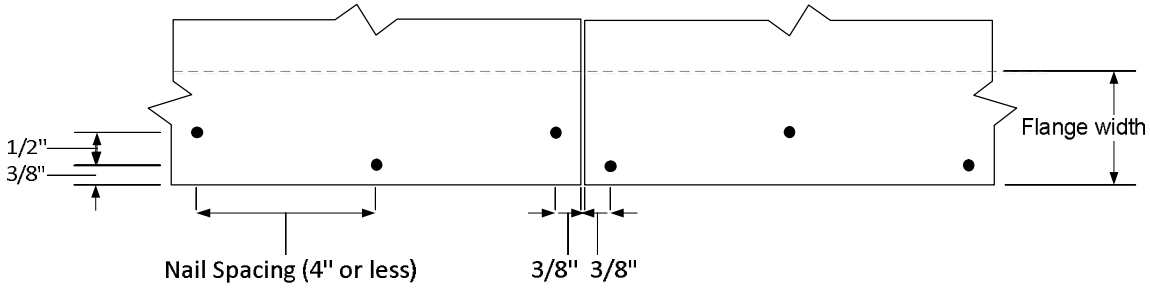

Figure 3. Staggered nails at diaphragm boundaries (see Footnote h), not to scale.

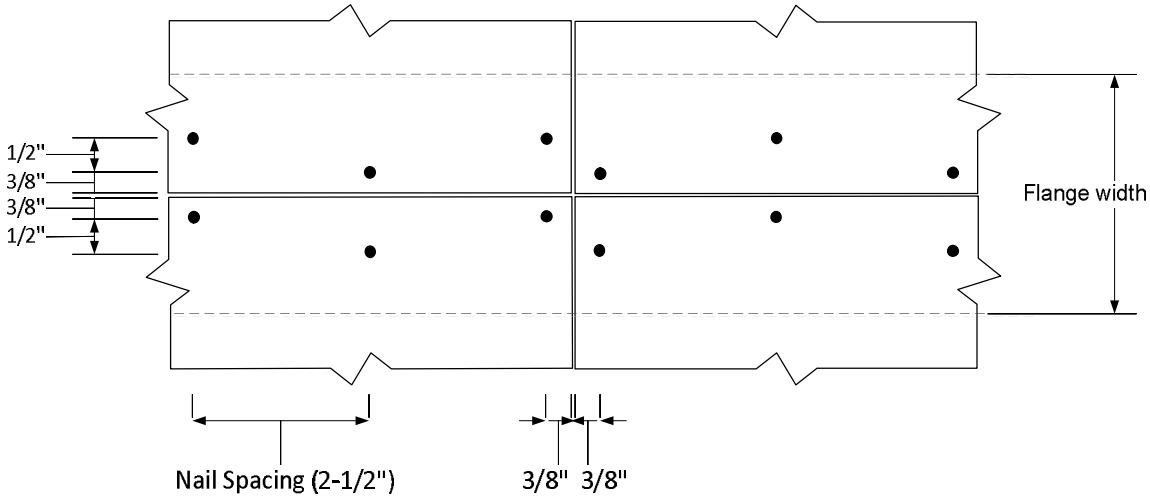

Figure 4. Staggered nails at adjoining panel edges (see Footnote i), not to scale.

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