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**DIVISION: 06 17 00 – WOOD, PLASTICS & COMPOSITES**  
**Section: 06 17 33 – Wood I-Joists**

**REPORT HOLDER:**  
IB EWP Inc.  
480 Jocelyn-Bastille  
Pohenegamook, QC GOL 1J0  
Canada  
(418) 893-1515  
[www.ibewp.com](http://www.ibewp.com)

**REPORT SUBJECT:**  
IB Series I-Joists IB400, IB450, IB600, IB700, IB800, IB900x

**ADDITIONAL LISTEE:**  
BlueLinx Corporation  
1950 Spectrum Circle  
Marietta, GA 30067  
(770) 953-7000  
[www.bluelinxco.com](http://www.bluelinxco.com)

**ADDITIONAL LISTEE SUBJECT:**  
BLI I-Joists BLI 40, BLI 60, BLI 80

### 1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *International Residential Code*® (IRC)
- 2023 and 2020 *Florida Building Code* (FBC) (-Building and -Residential) (including High Velocity Hurricane Zones) (See Section 9.0)

NOTE: This report references the most recent editions of the referenced codes. Section numbers from earlier editions may differ.

- 1.2 The IB and BLI I-Joists have been evaluated for the following properties:
- Structural Performance

1.3 The IB and BLI I-Joists have been evaluated for the following uses:

- I-Joists are prefabricated structural framing, load carrying members used in lieu of sawn lumber joists and rafters for commercial and residential construction in place of conventional sawn lumber using traditional framing tools and fasteners.
- I-Joists described in this report comply with IBC Section 2303.1.2 and IRC Section R502.1.2 for allowable stress design.

### 2.0 STATEMENT OF COMPLIANCE

The IB and BLI Series I-Joists recognized in this report comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

### 3.0 DESCRIPTION

3.1 The I-Joists are made with sawn lumber flanges and OSB webs in depths from 7-7/8 inches to 24 inches and lengths up to 52 feet. See Table 2 and Figure 1 for dimensional descriptions of the I-Joists. References to IB400, IB600, IB700, IB800 and IB900x joists may be extended to BLI 40, BLI 60, BLI 70, BLI 80 and BLI 90 joists, respectively.

3.2 Flanges are formed from proprietary re-graded spruce-pine-fir (SPF) materials. The grading rules for the re-graded flange materials are detailed in the manufacturer's in-plant Manufacturing Standard.

3.3 Web material is oriented strand board (OSB) material classified for Exposure 1 per APA PRP-108 Quality Assurance Policies for Structural-Use Panels. The web material is of 24/0 OSB, in thicknesses of 7/16 inch for the IB900x I-Joists and 3/8 inch for all other I-Joists.

3.4 Adhesives used for flange-to-flange, flange-to-web, and web-to-web joints meet the heat durability performance requirements of ICC-ES AC14 and comply with ASTM D2559 and ASTM D5055.



## 4.0 PERFORMANCE CHARACTERISTICS

**4.1** Reference Design Values for Bending Stiffness, Allowable Moments, Shear (with and without bearing stiffeners), Shear Deflection Factor, and Vertical Load Capacity are shown in Table 3. See Tables 4 and 5 for End Reaction and Interior Reaction Capacities. These values must be adjusted, as applicable, in accordance with American Wood Council, National Design Specification (NDS) for Wood Construction. Moment capacity shall not be increased by any repetitive member use factor.

**4.2** Reference IB EWP Inc. ASD tables and technical bulletins:

- Web Hole Guidelines tables (IBU-AW1 and IBU-AW2)
- Floor Span tables (IBU-MF1 thru IBU-MF6)
- Roof Span tables (IBU-MR1 and IBU-MR2)
- Web Stiffener requirements (technical bulletin TB-IJ-17)

**4.3** IB EWP Inc. IB Series joists may be used in fire-resistance rated assemblies when installed as described in the Design Listings found in Intertek Listing Report "IB EWP – IB Series I-Joists," Spec ID 27316.

## 5.0 INSTALLATION

### 5.1 General:

I-Joists must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

### 5.2 Application:

**5.2.1** For I-Joists installed over and beneath perpendicular load bearing walls, use full depth blocking panels, rimboard or lumber cripple members (vertical blocking), to transfer gravity loads through the floor system to the wall or foundation below. Due to shrinkage, common framing lumber may never be used as blocking or rimboards. I-Joist blocking panels or other engineered wood products, such as rimboard, must be cut to fit between the IB I-Joists and an IB I-Joist compatible depth selected.

**5.2.2** Continuous lateral support of the compression flange must be provided per the manufacturer's installation

instructions. Provide permanent lateral support of the bottom flange of all I-Joists at interior supports of multiple span joists. Similarly, support the bottom flange of all cantilevered I-Joists at the end support next to the cantilever extension. Restrain ends of floor joists to prevent rollover. Bridging between supports is not required for floor and roof IB I-Joist applications unless specified by the design professional.

**5.2.3** Duration of Load Adjustments to Allowable Loads for loading I-Joists are to be made in accordance with Section 7.3 and 2.3.2 of American Wood Council, National Design Specification (NDS) for Wood Construction.

**5.2.4** I-Joists may only be installed where the in-service moisture content of the wood does not exceed 16 percent. Never install I-Joists where they will be permanently exposed to weather, or where they will remain in direct contact with concrete or masonry.

**5.2.5** The use of a Repetitive-Member Use Factor applicable to the Reference Design Allowable Moment values in Table 3 is not permitted. Therefore, this term is limited to 1.0.

**5.2.6** I-Joist span must be determined in accordance with Section 3.2.1 of the NDS and the applicable Code. Shear calculations must include all loads within the design span.

**5.2.7** Maximum allowable deflections under design loads shall not exceed the maximum allowable deflections specified in Section 1604.3 of the IBC or Section R301.7 of the IRC. Values calculated per the following formulae. The following formulae shall be used for the conditions specified.

Simple span deflection with point load at centerline:

$$\Delta = PL^3/48EI + 2PL/K$$

Simple span deflection with full uniform loading:

$$\Delta = 5wL^4/384EI + wL^2/K$$

Where:

$\Delta$  = calculated deflection (inches)

P = concentrated point load (lbf)

L = I-joist span (center line bearing to center line bearing) (inches)

EI = Bending Stiffness (in<sup>2</sup>-lbf)

K = Coefficient of shear deflection (lbf)





**5.2.8** Holes in webs of the I-Joists are permitted to be installed per the ASD Web Hole Charts IBU-AW1 and IBU-AW2. Conditions outside of those specified in the above documents are outside the scope of this report and must be evaluated.

**5.2.9** Space fasteners installed into the top flange face in accordance with applicable Building Codes. Consult IB I-Joist Installation Guide for additional information. Engineered design for fasteners shall be based on the specific gravity of the flanges in Table 2.

## 6.0 CONDITIONS OF USE

**6.1** Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

**6.2** Where required by the Building Code Official, design calculations and details verifying compliance with this Code Compliance Research Report must be submitted to the Code Official for approval. The design calculations and details are to be prepared by a registered Design Professional when required by the authority having jurisdiction in which the projects are to be constructed.

**6.3** Spans shall be permitted in accordance with IB EWP Inc. ASD chart tables IBU-MF1 through IBU-MF6, IBU-MR1 and IBU-MR2 dated August 2019, and design values recognized in this report. For other span conditions contact IB EWP Inc.

**6.4** Except for cutting to length never cut, drill, or notch I-Joist flanges.

**6.5** The I-Joists are limited to use in combustible construction.

**6.6** Fire protection of floor assemblies shall be provided in accordance with IRC section R302.13.

**6.7** I-Joists identified in this report are manufactured at the manufacturing facilities recognized in Table 1 in accordance with the manufacturer's approved quality control system.

## 7.0 SUPPORTING EVIDENCE

**7.1** Manufacturer's published installation instructions.

**7.2** The IB EWP Inc. I-Joist ASD Charts dated August 2019.

**7.3** The I-Joists listed in this report have met the requirements of ICC-ES Acceptance Criteria AC14 for Prefabricated Wood I-Joists, revised October 2017.

**7.4** The reports of testing and engineering analysis demonstrating compliance with the requirements of ASTM D5055-16 [-19e1, 13], Standard Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists, for compliance with 2021 IBC.

**7.5** Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report, with compliance to Appendices B and C of AC14 – Acceptance Criteria for Prefabricated Wood I-Joists, revised October 2017.

## 8.0 IDENTIFICATION

The I-Joists described in this Research Report are identified by a stamp bearing the report holder's name (IB EWP Inc.) or the Additional Listee's name (BlueLinx Corporation), date code indicating date of production, depth and grade of I-Joist, APA marks, "Made in Canada", Intertek designation and number (CCRR-0322).





9.0 FLORIDA BUILDING CODE

9.1 Scope of Evaluation:

The IB and BLI I-Joists were evaluated for compliance with the 2020 Florida Building Code.

9.2 Conclusion:

The IB and BLI Series I-Joists described in Sections 2.0 through 7.0 of this Research Report comply with the 2020 Florida Building Code - Building and 2020 Florida Building Code - Residential, including High Velocity Hurricane Zones.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – Product Evaluation and Approval

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

TABLE 1 – MANUFACTURING LOCATIONS

	<b>Pohenegamook, Quebec, Canada</b>
<b>IB EWP Inc. Products</b>	IB400, IB450, IB600, IB700, IB800, IB900x
<b>BlueLinx Products</b>	BLI 40, BLI 60, BLI 80

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TABLE 2 – I-JOIST DIMENSIONAL INFORMATION<sup>1</sup>

Joist Series	Joist Depths (in)	Flanges				Web	
		Material	G <sup>2</sup>	Dimension		Material	Thickness (in)
				Depth (in)	Width (in)		
IB400 BLI 40	7-7/8	Proprietary SPF	0.42	1-1/2	2-1/2	OSB	3/8
	8-5/8						
	9-1/4						
	9-1/2						
	11-1/4						
	11-7/8						
	14						
16							
IB450	9-1/2	Proprietary SPF	0.42	1 1/2	3-1/2	OSB	3/8
	11-7/8						
	14						
	16						
IB600 BLI 60	7-7/8	MSR	0.46	1-1/2	2-1/2	OSB	3/8
	8-5/8						
	9-1/4						
	9-1/2						
	11-1/4						
	11-7/8						
	14						
	16						
18							
20							
IB700	9-1/2	MSR	0.42	1-1/2	3-1/2	OSB	3/8
	11-7/8						
	14						
	16						
IB800 BLI 80	7-7/8	MSR	0.46	1-1/2	3-1/2	OSB	3/8
	8-5/8						
	9-1/4						
	9-1/2						
	11-1/4						
	11-7/8						
	14						
	16						
18							
20							





Joist Series	Joist Depths (in)	Flanges				Web	
		Material	G <sup>2</sup>	Dimension		Material	Thickness (in)
				Depth (in)	Width (in)		
IB900x	7-7/8	MSR	0.50	1-1/2	3-1/2	OSB	7/16
	8-5/8						
	9-1/2						
	11-7/8						
	14						
	16						
	18						
	20						
22							
24							

<sup>1</sup> Referenced dimensions are nominal.

<sup>2</sup> Specific gravity of flanges for fasteners based on oven-dry weight and oven-dry volume.





TABLE 3 – REFERENCE DESIGN VALUES<sup>1</sup>

Series	Depth (in.)	Bending Stiffness EI joist (x10 <sup>6</sup> lbf-in <sup>2</sup> )	Allowable Moment, M <sup>2</sup> (lbf-ft)	Shear, V <sup>3</sup> (lbf)	Shear Deflection Factor K (x10 <sup>6</sup> lbf)	Vertical Load Capacity <sup>5</sup> (plf)
IB400 BLI 40	7-7/8	123	2,235	1,155	4.10	2,000
	8-5/8	153	2,495	1,155	4.49	
	9-1/4	185	2,715	1,155	4.81	
	9-1/2	198	2,800	1,185	4.94	
	11-1/4	296	3,410	1,405	5.85	
	11-7/8	336	3,630	1,480	6.18	
	14	494	4,370	1,750	7.28	
IB450	16	673	5,065	2,000	8.32	2,000
	9-1/2	240	2,915	1,400	4.94	
	11-7/8	407	3,780	1,620	6.18	
	14	596	4,455	1,815	7.28	
IB600 BLI 60	16	809	5,065	2,000	8.32	2,000
	7-7/8	145	3,080	1,155	4.10	
	8-5/8	181	3,440	1,155	4.49	
	9-1/4	220	3,740	1,350	4.81	
	9-1/2	235	3,860	1,370	4.94	
	11-1/4	356	4,700	1,515	5.85	
	11-7/8	399	5,000	1,570	6.18	
	14	585	6,020	1,750	7.28	
	16	799	6,980	2,000	8.32	
	18	1,046	7,895	2,250	9.36	
IB700	20	1,304	8,735	2,500	10.40	1,500
	9-1/2	270	3,965	1,400	4.94	2,000
	11-7/8	457	5,140	1,620	6.18	
	14	668	6,190	1,815	7.28	
16	906	7,175	2,000	8.32		
IB800 BLI 80	7-7/8	204	4,360	1,155	4.10	2,000
	8-5/8	254	4,870	1,155	4.49	
	9-1/4	307	5,295	1,390	4.81	
	9-1/2	326	5,465	1,405	4.94	
	11-1/4	493	6,655	1,540	5.85	
	11-7/8	552	7,080	1,590	6.18	
	14	807	8,530	1,835	7.28	
	16	1,094	9,890	2,070	8.32	
	18	1,445	11,135	2,300	9.36	
	20	1,799	12,380	2,600	10.40	
						1,810
						1,625





Series	Depth (in.)	Bending Stiffness EI joist (x10 <sup>6</sup> lbf-in <sup>2</sup> )	Allowable Moment, M <sup>2</sup> (lbf-ft)	Shear, V <sup>3</sup> (lbf)	Shear Deflection Factor K (x10 <sup>6</sup> lbf)	Vertical Load Capacity <sup>5</sup> (plf)
IB900x	7-7/8	216	5,365	1,360	5.04	2,000
	8-5/8	270	5,990	1,465	5.52	
	9-1/2	340	6,725	1,590	6.08	
	11-7/8	573	8,715	1,925	7.60	
	14	836	10,490	2,125	8.96	
	16	1131	12,165	2,330	10.24	
	18	1473	13,755	2,510	11.52	1,810
	20	1864	15,225	2,695	12.80	1,625
	22	2304	16,680	2,875	14.08	1,250
	24	2794	18,115	3,060	15.36	1,250

For SI: 1 inch = 25.4 mm; 1 lbf. = 4.448 N; 1 psi = 2.87 kN-mm<sup>2</sup>; 1 lbf-ft = 1.356 N-m

<sup>1</sup> Reference design values must be adjusted, as applicable, in accordance with Section 7.3 of the NDS.

<sup>2</sup> Moment capacity (M) shall NOT be increased by any repetitive member use factor.

<sup>3</sup> Shear capacity (V) of the I-Joist with a minimum end bearing of 4 inches.

<sup>4</sup> I-Joist deflection must be calculated in accordance with Section 5.2.7.

<sup>5</sup> Vertical load capacity for I-Joist used as a blocking panel.







TABLE 4 – END REACTION CAPACITIES

Series	Depth (inches)	End Reaction Capacities <sup>1, 2</sup> (pounds)									
		1 1/2" Bearing		1 3/4" Bearing		2 3/4" Bearing		3 1/2" Bearing		>=4" Bearing	
		A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>
IB400 BLI 40	7-7/8	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	1,110	1,155	1,115	1,155	1,155	1,155	1,155	1,155	1,155	1,155
	9-1/2	1,120	1,185	1,130	1,185	1,185	1,185	1,185	1,185	1,185	1,185
	11-1/4	1,175	1,355	1,205	1,360	1,340	1,405	1,405	1,405	1,405	1,405
	11-7/8	1,200	1,420	1,230	1,430	1,370	1,480	1,465	1,480	1,480	1,480
	14	1,260	1,630	1,295	1,645	1,455	1,750	1,550	1,750	1,550	1,750
	16	1,325	1,825	1,355	1,845	1,455	2,000	1,550	2,000	1,550	2,000
IB450	9-1/2	1,150	1,365	1,175	1,370	1,275	1,385	1,350	1,395	1,400	1,400
	11-7/8	1,235	1,565	1,265	1,575	1,375	1,595	1,465	1,610	1,520	1,620
	14	1,315	1,745	1,345	1,755	1,460	1,785	1,560	1,805	1,625	1,815
	16	1,385	1,915	1,420	1,925	1,555	2,000	1,655	2,000	1,725	2,000
IB600 BLI 60	7-7/8	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	1,110	1,155	1,130	1,350	1,155	1,350	1,155	1,350	1,155	1,350
	9-1/2	1,120	1,185	1,140	1,370	1,185	1,370	1,185	1,370	1,185	1,370
	11-1/4	1,175	1,355	1,215	1,515	1,340	1,515	1,405	1,515	1,405	1,515
	11-7/8	1,200	1,420	1,240	1,570	1,370	1,570	1,465	1,570	1,480	1,570
	14	1,260	1,630	1,335	1,750	1,460	1,750	1,550	1,750	1,550	1,750
	16	1,325	1,825	1,420	1,925	1,495	1,970	1,550	2,000	1,550	2,000
	18	N/A	N/A	1,505	2,095	1,530	2,185	1,550	2,250	1,550	2,250
20	N/A	N/A	1,550	2,260	1,550	2,395	1,550	2,500	1,550	2,500	
IB700	9-1/2	1,150	1,365	1,175	1,370	1,275	1,385	1,350	1,395	1,400	1,400
	11-7/8	1,235	1,565	1,265	1,575	1,375	1,595	1,465	1,610	1,520	1,620
	14	1,315	1,745	1,345	1,755	1,460	1,785	1,560	1,805	1,625	1,815
	16	1,385	1,915	1,420	1,925	1,555	2,000	1,655	2,000	1,725	2,000





Series	Depth (inches)	End Reaction Capacities <sup>1, 2</sup> (pounds)									
		1 1/2" Bearing		1 3/4" Bearing		2 3/4" Bearing		3 1/2" Bearing		>=4" Bearing	
		A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>
IB800 BLI 80	7-7/8	955	1,055	975	1,065	1,055	1,105	1,115	1,135	1,155	1,155
	8-5/8	1,065	1,110	1,075	1,115	1,110	1,130	1,135	1,145	1,155	1,155
	9-1/4	1,110	1,155	1,130	1,380	1,155	1,380	1,155	1,380	1,155	1,390
	9-1/2	1,120	1,185	1,140	1,405	1,185	1,405	1,185	1,405	1,185	1,405
	11-1/4	1,175	1,355	1,215	1,540	1,340	1,540	1,405	1,540	1,405	1,540
	11-7/8	1,260	1,590	1,290	1,590	1,405	1,590	1,490	1,590	1,550	1,590
	14	1,335	1,795	1,365	1,800	1,470	1,815	1,550	1,830	1,600	1,835
	16	1,410	1,990	1,435	2,000	1,530	2,030	1,550	2,055	1,600	2,070
	18	N/A	N/A	1,505	2,270	1,530	2,285	1,550	2,300	1,600	2,300
	20	N/A	N/A	1,550	2,460	1,550	2,540	1,550	2,600	1,650	2,600
IB900x	7-7/8	1,255	1,275	1,265	1,285	1,310	1,320	1,340	1,345	1,360	1,360
	8-5/8	1,285	1,335	1,305	1,350	1,375	1,405	1,425	1,440	1,460	1,465
	9-1/2	1,320	1,405	1,345	1,425	1,450	1,500	1,525	1,555	1,575	1,590
	11-7/8	1,400	1,600	1,400	1,635	1,630	1,765	1,790	1,860	1,885	1,925
	14	1,400	1,800	1,400	1,800	1,630	1,870	1,805	1,960	1,885	2,125
	16	1,420	1,990	1,435	2,000	1,640	2,190	1,805	2,330	1,885	2,330
	18	N/A	N/A	1,505	2,270	1,600	2,405	1,675	2,510	1,885	2,510
	20	N/A	N/A	1,520	2,470	1,600	2,590	1,675	2,680	1,885	2,695
	22	N/A	N/A	1,470	2,595	1,585	2,725	1,675	2,820	1,865	2,875
	24	N/A	N/A	1,470	2,880	1,585	2,925	1,675	2,960	1,820	3,060

<sup>1</sup> Reference design reactions must be adjusted, as applicable, in accordance with Section 7.3 of the NDS. Adjusted reaction values must not exceed  $F_{perpendicular}$  of the bearing plate X bearing length X flange width.

<sup>2</sup> Interpolation of the end reaction capacities between tabulated values shall be permitted.

<sup>3</sup> Not Used

<sup>4</sup> A = No Stiffeners

<sup>5</sup> B = Stiffeners





TABLE 5 – INTERIOR REACTION CAPACITIES

Series	Depth (inches)	Interior Reaction Capacities (pounds)			
		3 1/2" Bearing		5 1/2" Bearing	
		A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>
IB400 BLI 40	7-7/8	2,160	2,205	2,310	2,350
	8-5/8	2,160	2,285	2,310	2,370
	9-1/4	2,160	2,355	2,310	2,370
	9-1/2	2,160	2,370	2,370	2,370
	11-1/4	2,500	2,795	2,810	2,810
	11-7/8	2,500	2,800	2,810	2,960
	14	2,500	2,825	3,100	3,455
	16	2,500	2,850	3,100	3,650
IB450	9-1/2	2,500	2,800	2,500	2,800
	11-7/8	2,500	3,240	2,910	3,240
	14	2,500	3,630	3,100	3,630
	16	2,500	4,000	3,100	4,000
IB600 BLI 60	7-7/8	2,160	2,205	2,310	2,350
	8-5/8	2,160	2,285	2,310	2,495
	9-1/4	2,160	2,700	2,310	2,700
	9-1/2	2,160	2,740	2,370	2,740
	11-1/4	2,500	3,030	2,810	3,030
	11-7/8	2,500	3,075	2,810	3,140
	14	2,500	3,215	3,100	3,455
	16	2,500	3,350	3,100	3,650
	18	2,500	3,425	3,100	3,735
	20	2,500	3,450	3,100	3,820
IB700	9-1/2	2,500	2,800	2,500	2,800
	11-7/8	2,500	3,240	2,910	3,240
	14	2,500	3,630	3,100	3,630
	16	2,500	4,000	3,100	4,000



Series	Depth (inches)	Interior Reaction Capacities (pounds)			
		3 1/2" Bearing		5 1/2" Bearing	
		A <sup>4</sup>	B <sup>5</sup>	A <sup>4</sup>	B <sup>5</sup>
IB800 BLI 80	7-7/8	2,170	2,205	2,310	2,350
	8-5/8	2,175	2,285	2,310	2,495
	9-1/4	2,310	2,700	2,310	2,700
	9-1/2	2,470	2,740	2,470	2,740
	11-1/4	2,810	3,030	2,810	3,030
	11-7/8	2,815	3,180	3,140	3,180
	14	3,100	3,600	3,310	3,665
	16	3,100	4,000	3,340	4,100
	18	3,100	4,225	3,100	4,225
	20	3,100	4,350	3,100	4,350
IB900x	7-7/8	2,835	3,100	2,855	3,150
	8-5/8	2,935	3,150	2,950	3,190
	9-1/2	3,045	3,205	3,060	3,235
	11-7/8	3,355	3,355	3,355	3,355
	14	3,355	3600	3,355	3665
	16	3,355	4000	3,355	4100
	18	3,355	4,270	3,355	4,640
	20	3,355	4,600	3,355	4810
	22	3,355	4855	3,355	4870
	24	3,355	4925	3,355	4925

<sup>1</sup> Reference design reactions must be adjusted, as applicable, in accordance with Section 7.3 of the NDS. Adjusted reaction values must not exceed  $F_{\text{perpendicular}}$  of the bearing plate X bearing length X flange width.

<sup>2</sup> Interpolation of the end reaction capacities between tabulated values shall be permitted.

<sup>3</sup> Interpolation of the interior reaction capacities between tabulated values shall be permitted.

<sup>4</sup> A = No Stiffeners

<sup>5</sup> B = Stiffener



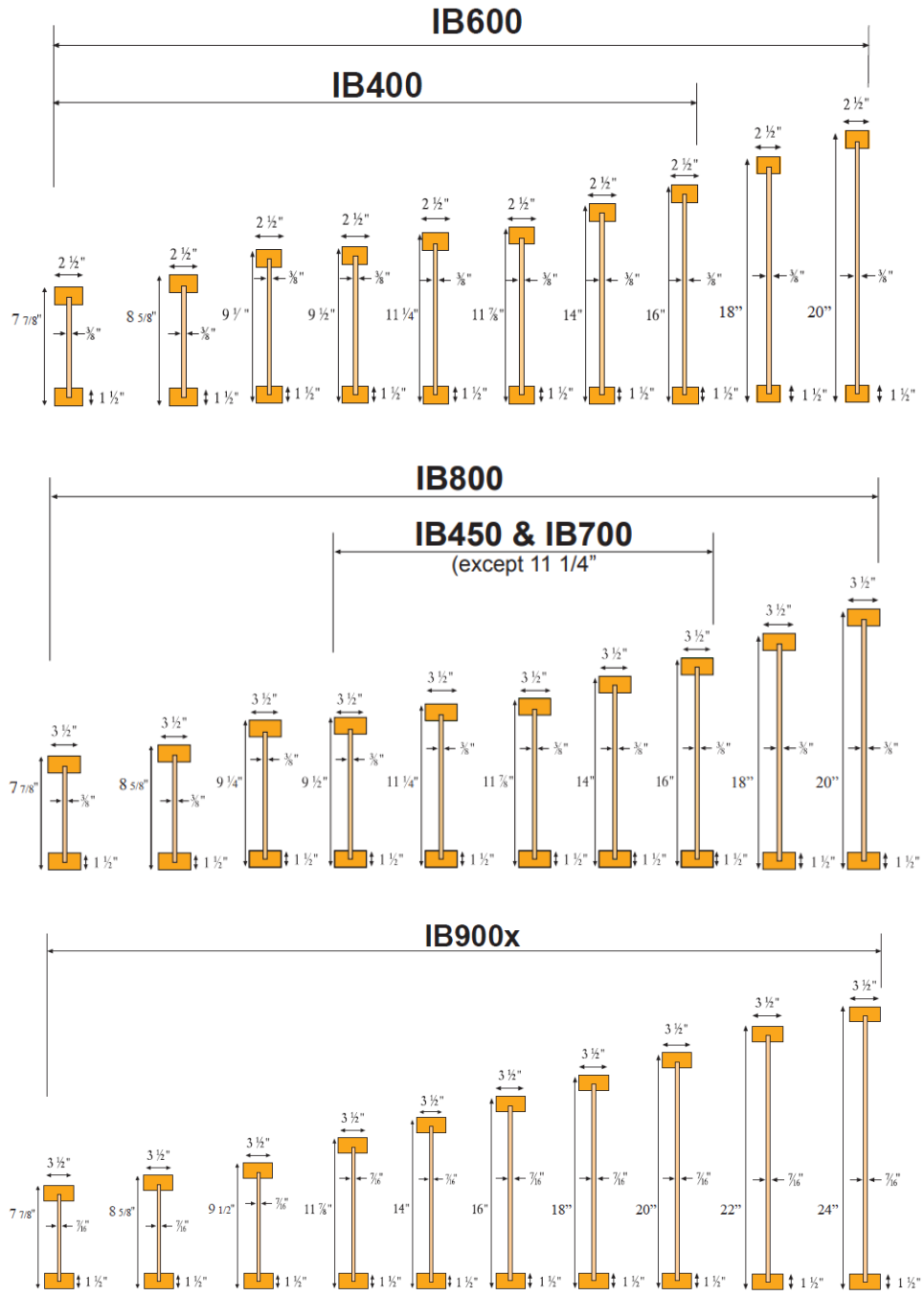


FIGURE 1 – I-JOIST ILLUSTRATIONS

