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# ICC-ES Evaluation Report ESR-3376

**DIVISION: 05 00 00—METALS** 

Section: 05 21 99—Open Web Steel Joist Framing

**REPORT HOLDER:** 

**NEW MILLENNIUM BUILDING SYSTEMS, LLC** 

**EVALUATION SUBJECT:** 

WN-SERIES OPEN WEB STEEL JOISTS

#### 1.0 EVALUATION SCOPE

## Compliance with the following codes:

■ 2021, 2018, and 2015 International Building Code (IBC) For evaluation for compliance with codes adopted by the Los Angeles Department of Building and Safety (LABDS), see ESR-3376 LABC Supplement.

# Properties evaluated:

■ Structural

#### **2.0 USES**

The New Millennium Building Systems, LLC WN-Series Open Web Steel Joists are used to support a variety of loads and load combinations as specified by the building design professional. This report deals specifically with the strength and performance of WN-Series Open Web Steel Joists under gravity loads.

## 3.0 DESCRIPTION

#### 3.1 General:

The WN-Series Open Web Steel Joists consist of wood nailers (WN) attached to the top chords of the steel joists with screws at the manufacturing facility. The holes in the top chord of the joists are punched, blown, drilled or cut into the joist's top chord.

The format for specifying WN-Series Open Web Steel Joists is ddWNtl/ll, where:

- dd is the joist nominal depth in inches, including woodnailer thickness
- tl is the maximum uniformly distributed downward total load per ASD (or total factored downward total load for LRFD) applied to the joist top chord based on strength.
- Il is the uniformly distributed live load for deflection checks

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This report is subject to renewal April 2025.

For example, a 24-inch deep steel joist with a  $2^{1}/_{2}$ " wood nailer, a 200 plf total design load and 100 plf live load would be designated as a 26.5WN200/100.

#### 3.2 Materials:

**3.2.1 Open Web Joist:** The Open Web Steel Joists conform to American National Standard SJI 100-2020, Section 3, Materials. The joists are manufactured from either ASTM A529 Grade 50 hot rolled angle or bar, or coldformed from ASTM A1011 HSLAS 50 Class 2 and ASTM A1018 HSLAS 50 Class 2 steel coils.

The specific members of the joists and its connections must be determined by New Millennium Building Systems, LLC in accordance with their approved design procedures and quality control manual.

- **3.2.2 Wood Nailers:** The wood nailers are 2 or  $2^{1}/_{2}$  inches thick, conforming to the American Wood Council (AWC) 2018 National Design Specification for Wood Construction, as Grade 2 Douglas Fir lumber. The wood nailer width matches the steel top chord width and is continuous along the entire length of the top chord.
- **3.2.3 Screws:** The screws used to attach the wood nailer to the steel top chord are  $^{1}/_{4}$ -10 x 2-inch long indented hex washer head type 17 self-drilling point screws of C10B21 material, or equivalent. The screws are spaced in accordance with the project specific design, but at not greater than 12 inches on center and staggered (24 inches on-center on each side).

## 4.0 DESIGN AND INSTALLATION

#### 4.1 Design:

The WN-Series Open Web Steel Joists are designed as simply supported trusses to support uniformly distributed gravity loads (as well as other design loads) specified by the building design professional. The joists are designed such that the bottom chord and end webs are in tension under gravity loads. The bottom chords and end webs are designed to govern the capacity based on strength.

Table 1 provides joist weight, stiffness, and top chord width for a variety of depths, spans and uniform design loads, to aid in selection.

# 4.2 Installation:

The WN-Series Open Web Steel Joists must be installed in accordance with this report, New Millennium Building





Systems, LLC published installation guidelines and instructions, and the applicable code. If there is a conflict, this report governs.

#### 5.0 CONDITIONS OF USE

The WN-Series Open Web Steel Joists described in this report complies with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The evaluation report is limited to the structural design of simply supported Tension-Controlled Open Web Steel Joists under gravity load combinations, which cause the bottom chord and end webs to be in tension.
- 5.2 For structures incorporating the WN-Series Open Web Steel Joists, structural calculations and engineering plans, prepared by a registered design professional, shall comply with the code requirements and this evaluation report, and shall be submitted to and approved by the code official.
- 5.3 Non-structural elements, such as interior finishes and fire-resistance ratings, are outside of the scope of the evaluation report, and shall comply with applicable code provisions.
- 5.4 The specific members of the WN-Series Open Web Steel Joists and their connections must be determined by New Millennium Building Systems, LLC in accordance with their approved design procedures and quality control manual.

## **6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Tension-controlled Open Web Steel Joists (AC449), dated June 2013 (editorially revised June 2021).

#### 7.0 IDENTIFICATION

- 7.1 The joists are identified by a legible label (tag), indicating the manufacturer's name, the report holder's name, the mark number, and the job number. The job number and mark number cross reference the specific piece to the applicable joist erection drawing. A Product Certificate, included on the joist erection drawing, notes the ICC-ES evaluation report number (ICC-ES ESR-3376), provides notice of any product installation limitations, and includes the job number and all mark numbers.
- **7.2** The report holder's contact information is the following:

**NEW MILLENNIUM BUILDING SYSTEMS, LLC** 8200 WOOLERY WAY **FALLON, NEVADA 89406** (870) 722-4100 www.newmill.com

TABLE 1A - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS

Joist	Bare Steel	Wood Nailer	Total U	Total Uniformly Distributed Joist Load in Pounds per Linear Foot									
Span	Joist Depth	Overall Joist	LRFD (plf)	150	300	450	600	750	900	1050	1200	1350	1500
[ft]	[in]	Depth [in]	ASD (plf)	100	200	300	400	500	600	700	800	900	1000
			Wt.(lb/ft)	9.4	9.7	9.6	10.2	11.0	11.6	12.7	14.3	15.4	15.7
24	24	26.5	w240 (plf)	772	794	772	794	915	1014	1186	1296	1466	1528
24	24	20.5	Ix (in <sup>4</sup> )	183	188	183	188	217	240	281	307	347	362
			Nailer Width (in)	5	5	5	5	5	5	5	5	5	5
			Wt.(lb/ft)	9.1	9.3	10.2	11.3	12.5	14.6	16.2	18.0	20.7	21.4
	24	26.5	w240 (plf)	390	390	424	526	600	757	851	962	1113	1150
			Ix (in <sup>4</sup> )	182	182	198	245	280	353	396	448	519	536
			Nailer Width (in)	5	5	5	5	5	5	5	5	5	5
	26	28.5	Wt.(lb/ft)	9.2	9.4	9.9	11.1	12.1	13.7	15.3	16.5	18.7	21.0
			w240 (plf)	459	459	500	590	657	776	896	1007	1141	1320
			Ix (in <sup>4</sup> )	214	214	233	275	306	362	417	469	531	615
30			Nailer Width (in)	5	5	5	5	5	5	5	5	5	5
30		30.5	Wt.(lb/ft)	9.0	9.2	9.7	11.4	12.4	13.5	15.1	17.0	18.7	19.8
	28		w240 (plf)	534	534	534	700	765	905	1045	1177	1334	1447
	28		Ix (in <sup>4</sup> )	249	249	249	326	357	422	487	548	622	674
			Nailer Width (in)	5	5	5	5	5	5	5	5	5	5
			Wt.(lb/ft)	9.3	9.4	9.5	11.3	12.2	13.7	15.3	16.9	17.7	19.8
	30	20.5	w240 (plf)	615	615	615	807	853	997	1207	1360	1448	1673
	30	32.5	lx (in⁴)	287	287	287	376	398	465	562	633	675	780
			Nailer Width (in)	5	5	5	5	5	5	5	5	5	5

For SI: 1 inch = 25.4 mm; 1 foot = 0.3048 m; 1 lb = 4.45 N

# Notes for Tables 1A through 1D.

- 1. Since joist designations are a function of joist depth and job specific loading, no joist designations are shown in the tables. The tables show typical joist weights, stiffness, and nailer width, based on span, depth, and loading.
- The total uniformly distributed downward applied to the top chord is based on strength only. The Wt. of the joists have not been deducted from these values.
- 3. w240 is the total uniformly distributed joist load based on a deflection limit of 1/240 of the joist span. The deflection calculation includes a 1.15 factor for shear deflection, The Wt. of the joists have not been deducted from these values.

TABLE 1B - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS

TABLE 1B - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS													
Joist	Bare Steel	Wood Nailer	Total	Unifor	mly Dist	ributed	Joist Lo	pad in P	ounds p	er Linea	r Foot	Т	Т
Span	Joist Depth	Overall Joist	LRFD	150	300	450	600	750	900	1050	1200	1350	1500
[ft]	[in]	Depth [in]	ASD	100	200	300	400	500	600	700	800	900	1000
			Wt.(lb/ft)	9.2	10.2	12.3	15.7	19.8	23.4	26.6	29.1	32.7	35.3
	24	26.5	w240 (plf)	163	197	263	356	466	542	630	695	771	837
	24	20.0	lx (in <sup>4</sup> )	182	219	293	396	519	603	702	774	858	932
			Nailer Width (in)	5	5	5	5	5	7	7	7	7	8
			Wt.(lb/ft)	9.3	10.1	12.0	15.1	17.9	20.9	24.3	26.9	30.3	32.9
	26	28.5	w240 (plf)	192	221	290	402	477	571	660	747	824	914
	20	20.0	lx (in <sup>4</sup> )	214	246	323	448	531	636	735	832	918	1018
			Nailer Width (in)	5	5	5	5	5	5	7	7	7	7
	28	30.5	Wt.(lb/ft)	9.2	9.8	11.7	14.5	17.8	20.7	23.9	25.9	30.0	32.6
			w240 (plf)	223	243	327	437	558	646	749	832	964	1069
			lx (in <sup>4</sup> )	249	271	364	487	622	720	834	927	1074	1191
			Nailer Width (in)	5	5	5	5	5	5	7	7	7	7
	30	32.5	Wt.(lb/ft)	9.3	9.7	11.6	13.7	16.4	20.2	21.4	25.2	27.7	30.5
40			w240 (plf)	257	280	357	452	569	748	773	893	1011	1115
40			lx (in <sup>4</sup> )	287	312	398	503	633	833	861	995	1126	1242
			Nailer Width (in)	5	5	5	5	5	5	5	7	7	7
		34.5	Wt.(lb/ft)	9.4	9.7	11.4	13.6	16.5	18.7	21.1	24.7	27.1	30.0
	32		w240 (plf)	294	294	385	499	651	739	857	972	1102	1215
	02	0 1.0	lx (in <sup>4</sup> )	327	327	429	556	725	823	955	1082	1227	1353
			Nailer Width (in)	5	5	5	5	5	5	5	7	7	7
			Wt.(lb/ft)	9.4	10.0	11.4	13.0	15.4	18.1	20.0	21.5	25.4	28.1
	36	38.5	w240 (plf)	373	373	467	580	737	883	1005	1097	1308	1409
			lx (in <sup>4</sup> )	416	416	520	646	821	983	1120	1222	1457	1569
			Nailer Width (in)	5	5	5	5	5	5	5	5	7	7
			Wt.(lb/ft)	9.6	10.0	11.4	13.7	15.4	17.6	19.3	21.6	25.2	27.5
	40	42.5	w240 (plf)	462	462	532	720	861	1034	1177	1367	1547	1693
		42.0	lx (in <sup>4</sup> )	515	515	593	802	959	1152	1311	1523	1723	1886
			Nailer Width (in)	5	5	5	5	5	5	5	5	7	7

TABLE 1C - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS

Joist	Bare Steel	Wood Nailer	Total Uniformly Distributed Joist Load in Pounds per Linear Foot										
Span	Joist Depth	Overall Joist	LRFD	150	300	450	600	750	900	1050	1200	1350	1500
[ft]	[in]	Depth [in]	ASD	100	200	300	400	500	600	700	800	900	1000
			Wt.(lb/ft)	10.5	14	18.4	23.5	28.8	33.8	39.5	46	50.2	55.5
	0.4	00.5	w240 (plf)	93	151	208	275	337	414	477	550	610	678
	24	26.5	lx (in <sup>4</sup> )	201	330	454	602	736	904	1042	1203	1333	1482
			Nailer Width (in)	5	5	5	7	7	7	8	9	9	9
			Wt.(lb/ft)	9.2	11.7	17.2	20.3	26.6	30.5	34.9	40.0	48.4	50.5
	00	00.5	w240 (plf)	98	155	243	291	381	444	506	590	725	755
	26	28.5	lx (in <sup>4</sup> )	214	338	531	636	832	972	1106	1290	1586	1650
			Nailer Width (in)	5	5	5	5	7	7	8	8	9	9
			Wt.(lb/ft)	9.1	11.4	15.6	19.9	25.1	29.6	34.2	37.6	42.0	48.8
	20	20 F	w240 (plf)	114	172	251	329	407	491	574	636	723	851
	28	30.5	lx (in <sup>4</sup> )	249	377	548	720	891	1074	1255	1390	1581	1861
			Nailer Width (in)	5	5	5	5	7	7	7	8	8	9
	30	32.5	Wt.(lb/ft)	9.1	10.9	14.9	19.8	25.0	27.4	32.5	35.1	39.0	44.9
			w240 (plf)	131	182	276	381	441	515	630	686	768	889
			lx (in <sup>4</sup> )	287	398	603	833	964	1126	1378	1499	1679	1943
			Nailer Width (in)	5	5	5	5	7	7	7	8	8	9
	32	34.5	Wt.(lb/ft)	9.2	10.9	14.2	17.9	22.6	27.0	30.6	34.1	37.8	40.9
50			w240 (plf)	150	208	294	377	463	590	651	761	844	918
50	32		lx (in <sup>4</sup> )	327	454	643	823	1013	1289	1422	1663	1846	2007
			Nailer Width (in)	5	5	5	5	7	7	7	7	8	8
	36	38.5	Wt.(lb/ft)	9.7	13.3	14.4	17.7	20.7	25.0	28.8	32.5	34.9	37.4
			w240 (plf)	190	238	353	450	559	666	755	870	953	1044
	30		lx (in <sup>4</sup> )	416	521	772	984	1222	1457	1650	1902	2084	2283
			Nailer Width (in)	5	5	5	5	5	7	7	7	8	8
			Wt.(lb/ft)	9.9	12.7	15.7	17.7	19.8	27.0	30.3	32.4	35.5	39.8
	40	42.5	w240 (plf)	236	281	402	560	638	853	937	1058	1230	1275
	40	42.0	lx (in <sup>4</sup> )	515	614	879	1224	1395	1864	2049	2312	2690	2788
			Nailer Width (in)	5	5	5	5	5	7	7	8	8	8
			Wt.(lb/ft)	12.0	12.4	15.2	18.0	21.9	26.0	28.4	30.5	35.2	37.1
	44	46.5	w240 (plf)	286	311	466	595	778	925	1051	1140	1290	1449
	77	40.0	lx (in <sup>4</sup> )	625	681	1019	1301	1700	2022	2298	2492	2820	3168
			Nailer Width (in)	5	5	5	5	5	7	7	7	8	8
			Wt.(lb/ft)	13.4	14.0	17.5	20.7	24.9	28.4	32.8	35.5	38.2	41.8
	48	50.5	w240 (plf)	419	427	608	794	1006	1194	1320	1501	1645	1718
	48	50.5	lx (in <sup>4</sup> )	916	934	1330	1736	2200	2609	2886	3282	3596	3755
			Nailer Width (in)	5	5	5	5	7	7	8	8	8	9

TABLE 1D - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS

Joist	Bare Steel	Wood Nailer	Total Uniformly Distributed Joist Load in Pounds per Linear Foot											
Span	Joist Depth	Overall Joist							1350	1500				
(ft]	[in]	Depth [in]	ASD	100	200	300	400	500	600	700	800	900	1000	
[.4]	[]	200.[]			16.5	22.9	28.9	34.2	39.9	50.2	52.3		65.7	
			Wt.(lb/ft)	11.2				34.2	383			59.2		
	28	30.5	w240 (plf)	84	146	211	269			491	511	588	663	
			lx (in <sup>4</sup> )	317	552	798	1021	1255	1450	1861	1936	2230	2512	
			Nailer Width (in)	5	5	7	7	7	8	9	9	9	9	
			Wt.(lb/ft)	10.2	14.5	20.3	26.7	32.1	37.5	42.0	50.6	54.6	58.0	
	30	32.5	w240 (plf)	87	148	220	297	363	425	483	592	633	682	
			Ix (in <sup>4</sup> )	330	562	833	1126	1378	1610	1832	2245	2400	2587	
			Nailer Width (in)	5	5	5	7	7	8	8	9	9	9	
	32	34.5	Wt.(lb/ft)	9.8	14.3	20.1	24.9	30.7	35.2	40.3	49.0	51.1	57.8	
			w240 (plf)	94	170	252	311	397	453	529	653	680	784	
			Ix (in <sup>4</sup> )	356	643	955	1179	1506	1718	2007	2477	2577	2971	
			Nailer Width (in)	5	5	5	7	7	8	8	9	9	9	
	36	38.5	Wt.(lb/ft)	9.6	13.4	18.5	23.1	27.8	33.0	38.3	41.5	49.1	51.4	
60			w240 (plf)	110	187	278	354	435	533	624	679	839	873	
60	30	30.3	Ix (in <sup>4</sup> )	416	708	1053	1342	1650	2020	2367	2573	3182	3311	
			Nailer Width (in)	5	5	5	7	7	7	8	8	9	9	
			Wt.(lb/ft)	9.9	13.4	17.8	22.2	27.2	30.9	35.9	38.9	45.7	49.8	
	40	42.5	w240 (plf)	136	221	323	411	515	598	724	779	942	1049	
	40	42.5	lx (in <sup>4</sup> )	515	838	1224	1557	1953	2267	2743	2953	3571	3975	
			Nailer Width (in)	5	5	5	7	7	7	8	8	9	9	
			Wt.(lb/ft)	10.2	13.0	18.3	21.5	25.6	30.3	35.0	37.8	41.3	45.3	
	44	40.5	w240 (plf)	165	243	394	490	583	693	836	916	989	1096	
	44	46.5	lx (in <sup>4</sup> )	625	921	1492	1857	2211	2628	3168	3471	3750	4153	
			Nailer Width (in)	5	5	5	5	7	7	8	8	8	9	
			Wt.(lb/ft)	10.7	12.8	16.7	20.3	24.7	29.2	36.9	36.2	42.5	45.0	
			w240 (plf)	227	273	410	537	638	787	1005	1001	1202	1254	
	48	50.5	lx (in <sup>4</sup> )	859	1035	1556	2036	2419	2983	3810	3795	4556	4752	
			Nailer Width (in)	5	5	5	5	7	7	8	8	9	9	

TABLE 1E - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS

	TABLE 1E - STANDARD WEIGHT TABLE FOR LOAD/LOAD WN-SERIES JOISTS												
Joist	Joist	Wood Nailer	Total Uniformly Distributed Joist Load in Pounds per Linear Foot										
Span	Bare Steel Depth	Overall Joist Depth	LRFD	150	300	450	600	750	900	1050	1200	1350	1500
[ft]	[in]	[in]	ASD	100	200	300	400	500	600	700	800	900	1000
			Wt.(lb/ft)	12.4	18.1	25.1	30.4	37.7	45.1	51	58	64.6	
	34	36.5	w240 (plf)	100	157	222	283	348	420	486	560	632	
	34	30.3	lx (in <sup>4</sup> )	604	944	1342	1710	2098	2535	2932	3381	3812	
			Nailer Width (in)	5	5	7	7	8	9	9	9	9	
			Wt.(lb/ft)	12.4	17.6	24.3	29.4	35.3	45.1	50.9	55.5	62.0	
	36	38.5	w240	113	164	240	302	365	474	549	587	670	
	30	30.3	lx	679	989	1449	1820	2200	2861	3311	3541	4043	
			Top Chord Width	5	5	7	7	8	9	9	9	9	
			Wt.(lb/ft)	12.6	16.7	23.3	29.2	33.2	40.5	49.1	51.6	58.6	64.8
	38	40.5	w240	126	173	249	338	395	478	591	615	710	800
			lx	759	1041	1504	2037	2383	2883	3567	3712	4282	4830
			Top Chord Width	5	5	7	7	7	8	9	9	9	9
	40	42.5	Wt.(lb/ft)	12.5	16.7	22.7	27.0	32.2	38.0	45.5	51.1	55.9	62.4
			w240	140	192	268	340	417	489	592	686	733	838
	40	42.0	lx	842	1158	1616	2054	2517	2953	3571	4137	4425	5054
70			Top Chord Width	5	5	7	7	7	8	9	9	9	9
	42	44.5	Wt.(lb/ft)	12.5	16.2	22.3	26.3	32.2	38.0	45.4	49.5	55.7	62.5
			w240	147	192	284	359	462	542	656	730	813	928
			lx	886	1159	1714	2167	2786	3270	3957	4405	4905	5602
			Top Chord Width	5	5	7	7	7	8	9	9	9	9
			Wt.(lb/ft)	12.3	16.0	22.3	26.3	31.1	37.0	44.2	49.4	55.4	59.0
	44	46.5	w240	161	211	313	395	479	575	688	805	896	967
		10.0	lx	974	1276	1886	2386	2889	3471	4153	4857	5409	5834
			Top Chord Width	5	5	7	7	7	8	9	9	9	9
			Wt.(lb/ft)	12.6	15.6	20.6	25.0	31.2	36.7	40.2	46.1	51.7	56.5
	46	48.5	w241	177	221	312	399	525	608	682	793	920	984
		.3.3	lx	1066	1335	1882	2407	3167	3669	4114	4786	5550	5937
			Top Chord Width	5	5	5	7	7	8	8	9	9	9
			Wt.(lb/ft)	13.2	16.3	20.2	25.1	29.4	35.2	40.4	46.3	52.1	56.2
	48	50.5	w240	203	253	341	436	522	629	745	867	1005	1076
	70	50.5	lx	1222	1526	2055	2628	3147	3795	4495	5231	6067	6491
			Top Chord Width	5	5	5	7	7	8	8	9	9	9



# **ICC-ES Evaluation Report**

# **ESR-3376 LABC Supplement**

Reissued May 2023

This report is subject to renewal April 2025.

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A Subsidiary of the International Code Council®

**DIVISION: 05 00 00—METALS** 

Section: 05 21 99—Open Web Steel Joist Framing

**REPORT HOLDER:** 

**NEW MILLENNIUM BUILDING SYSTEMS, LLC** 

**EVALUATION SUBJECT:** 

**WN-SERIES OPEN WEB STEEL JOISTS** 

## 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that WN-Series Open Web Steel Joists, described in ICC-ES evaluation report ESR-3376, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

# Applicable code editions:

■ 2020 City of Los Angeles Building Code (LABC)

#### 2.0 CONCLUSIONS

The WN-Series Open Web Steel Joists, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-3376, comply with the LABC Chapter 22, and are subject to the conditions of use described in this supplement.

# 3.0 CONDITIONS OF USE

The WN-Series Open Web Steel Joists described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-3376.
- The design, installation, conditions of use and identification of the WN-Series Open Web Steel Joists are in accordance with the 2018 International Building Code® (IBC) provisions noted in the ICC-ES evaluation report ESR-3376.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the evaluation report, reissued May 2023.





# **ICC-ES Evaluation Report**

# **ESR-3376 CBC Supplement**

Reissued May 2023

This report is subject to renewal April 2025.

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A Subsidiary of the International Code Council®

**DIVISION: 05 00 00—METALS** 

Section: 05 21 99— Open Web Steel Joist Framing

**REPORT HOLDER:** 

**NEW MILLENNIUM BUILDING SYSTEMS, LLC** 

**EVALUATION SUBJECT:** 

WN-SERIES OPEN WEB STEEL JOISTS

# 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that the WN-Series Open Web Steel Joists, described in ICC-ES evaluation report ESR-3376, have also been evaluated for compliance with the code noted below.

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

#### Applicable code edition:

■ 2019 California Building Code (CBC)

#### 2.0 CONCLUSIONS

The WN-Series Open Web Steel Joists, described in Sections 2.0 through 7.0 of the evaluation report ESR-3376, comply with CBC Chapter 22. The design and installation must be in accordance with the 2018 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 16 and 17, as applicable.

- 2.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.
- 2.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

This supplement expires concurrently with the evaluation report, reissued May 2023.





# **ICC-ES Evaluation Report**

# **ESR-3376 OSSC Supplement**

Reissued May 2023

This report is subject to renewal April 2025.

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**DIVISION: 05 00 00—METALS** 

Section: 05 21 99—Open Web Steel Joist Framing

**REPORT HOLDER:** 

**NEW MILLENNIUM BUILDING SYSTEMS, LLC** 

**EVALUATION SUBJECT:** 

**WN-SERIES OPEN WEB STEEL JOISTS** 

## 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that WN-Series Open Web Steel Joists, described in ICC-ES evaluation report ESR-3376, have also been evaluated for compliance with the codes noted below.

#### Applicable code editions:

■ 2019 Oregon Structural Specialty Code (OSSC)

#### 2.0 CONCLUSIONS

The WN-Series Open Web Steel Joists, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-3376, comply with the OSSC Chapter 22, and are subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The WN-Series Open Web Steel Joists described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-3376.
- The design, installation, conditions of use and identification of the WN-Series Open Web Steel Joists are in accordance with the 2018 International Building Code® (IBC) provisions noted in the ICC-ES evaluation report ESR-3376.
- The design, installation and inspection are in accordance with additional requirements of OSSC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the evaluation report, reissued May 2023.

