

**STRONGER  
THAN STEEL.™**

FLOOR FRAMING

JOIST & RIM IN CONFORMANCE WITH: AISI S100-16 w/S2-20 • IBC 2021

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## USING THIS GUIDE

The technical information contained in this Guide was prepared to assist professional engineers and architects in the use of the ClarkDietrich TradeReady® Steel Joist System and should be used only with the guidance and judgement of such architect or engineer.

### USING THIS DESIGN GUIDE

1. It is the responsibility of the user of the Design Guide for the ClarkDietrich TradeReady® Steel Joist System to identify:

- Load conditions
- Load paths
- Buildings general stability
- Field Conditions

2. When designing a floor system, many factors may effect the end feel of the floor including:

- Designed live and dead loads and deflection criteria
- On center spacing of joist
- Bridging and blocking
- Floor sheathing type and size
- Floor finish
- Location of load bearing and non load bearing walls above and below

3. Floor member selection may involve the following conditions for consideration:

- Joist span
- Joist web crippling
- Joist attachment to girders or beams using support clips
- Rim and joist framing details

4. Additional considerations may include:

- TradeReady, rolled hole alignment and orientation.
- TradeReady, rolled hole access and field penetrations.

5. Value Engineering

- Often times the less expensive joist is a lighter thickness joist combined with a taller web height versus a heavier thickness and shorter web height.
- Excessive value engineering (choosing the least expensive member for every framing area) may hinder the ordering and framing process by creating too many custom parts and pieces for the construction process.
- Utilizing only one or two different joist sizes is recommended.

## FLOOR FRAMING

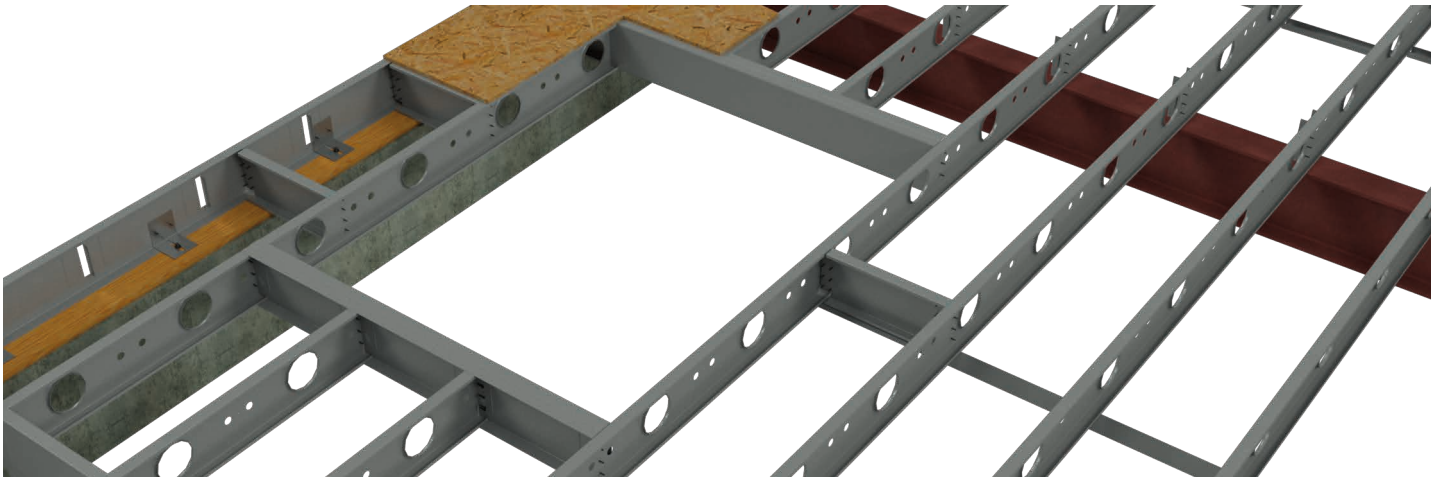
### You can have confidence in the strength of steel under your feet.

Floor framing made from cold-formed steel is stronger and more versatile. Its high strength-to-weight ratio provides strong loading capacity and maximum spanning capability. It can be used with all traditional flooring materials such as plywood, OSB, concrete-filled steel deck or one of the many varieties of fiber-reinforced cement board. It doesn't squeak when you walk across it.

What's more is that ClarkDietrich's exclusive TradeReady® Floor System is designed with large extruded openings in the joists to accommodate electrical, mechanical, plumbing and technology lines. These prepunched openings also eliminate drilling and soffit framing during installation.

For all of these reasons, steel floor framing has become the standard for low- and mid-rise commercial structures such as hotels, apartments, condominiums and assisted living, as well as residential homes.

- Available in a variety of web sizes, flanges, thicknesses and yield strengths
- Pre-spaced joist tabs
- Greater spanning capabilities
- Prepunched openings
- Full system of joist components, accessories, hangers and connectors

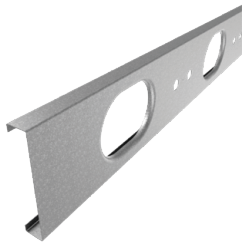


## THE ClarkDietrich TradeReady® FLOOR SYSTEM

The revolutionary TradeReady Steel Joist System features a tabbed rim track to strengthen the joist against web crippling loads, and to provide greater versatility and strength for ledger applications. In conjunction with other floor sheathing products, this system provides one of the most cost-effective systems for non-combustible low- and mid-rise structures.

- Prepunched openings eliminate drilling/cutting joist webs, and soffit framing
- Sustainable alternative to wood joists, offering long-term price stability
- Pre-spaced joist tabs eliminate layout, and joist hangers
- Greater spanning capabilities for design flexibility
  - Wider o.c. spacing for fewer joists

## TradeReady® STEEL JOIST



ClarkDietrich TradeReady® steel joists meets the requirements of most typical building layout and floor/roof loads. Large extruded holes (spaced at 24" o.c.) accommodate HVAC, mechanical, plumbing, electrical and sprinkler runs. The joist also features a series of smaller holes for electrical and technology lines. Hole sizes range from 4-1/4" oval to 10" round, based on member depth.

They offer consistent quality, predictable performance and high strength-to-weight ratio.

Product code	ksi	Thickness	Depth (in)	Flange (in)	Return (in)
		Mils (gauge)			
TDJ	43mil = 33ksi	43mil (18ga) 0.0451 design thickness, 54mil (16ga) 0.0566 design thickness, 68mil (14ga) 0.0713 design thickness, 97 mil (12ga) 0.1017 design thickness	7-1/4, 8, 9-1/4, 11-1/4	1-3/4	5/8
TDW	54, 68, 97mil = 50ksi		10, 12, 14	2	

UL and UL Classified are trademarks of Underwriters Laboratories, Inc.

UL listed assemblies: G535, G536, G551, G553, G578, G579, G591, H516, L564, M564, P546, P561 and P562.

\*Note: 7-1/4" and 8" deep members are not included in UL listings.

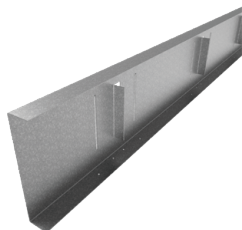


### TradeReady Joist

Extruded hole size (in)	Hole shape	Web width (in)
4-1/4 x 7		7-1/4 TDJ, 8 TDJ
6-1/4 x 9		9-1/4 TDJ, 10 TDW, 11-1/4 TDJ
8 Diam.		12 TDW
10 Diam.		14 TDW

Note: See pages 8-9 for more information on extruded hole sizes and spacing.

## TradeReady RIM



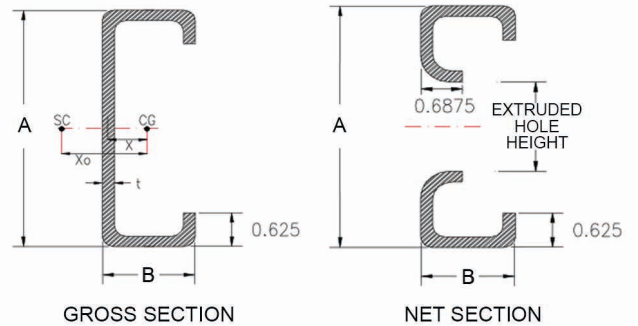
Another major component of the TradeReady floor system, the standard 12'-long rim drastically reduces framing time and effort. Rims have pre-formed, prepunched attachment tabs at 12", 16", 19.2" or 24" o.c. spacing to eliminate layout time—and ensure fast, proper fastener placement. Embossed stiffening ribs on each side of the tabs provide additional reinforcement, for a significant reduction of web stiffeners (squash blocks) and support clips in a majority of applications.

Product code	Thickness	Depth (in)	Flange Length		Tab spacing (in)
	Mils (gauge) Design thickness		Top (in)	Bottom (in)	
TD12, TD16, TD19, TD24	43mil (18ga) 0.0451 design thickness, 54mil (16ga) 0.0566 design thickness, 68mil (14ga) 0.0713 design thickness, 97 mil (12ga) 0.1017 design thickness	7-1/4, 8, 9-1/4, 10, 11-1/4, 12, 14	2	2	12, 16, 19.2, 24

**STRUCTURAL PROPERTIES TradeReady® STEEL JOIST**

Product Code	Dimensions		Design Thickness (in)	Weight (lbs/ft)	Gross Section Properties					Net Section Properties (at Extruded Hole)					Allowable Capacities					
	A (in)	B (in)			Area (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	r <sub>y</sub> (in)	Area (in <sup>2</sup> )	I <sub>x,net</sub> (in <sup>4</sup> )	r <sub>x,net</sub> (in)	I <sub>y,net</sub> (in <sup>4</sup> )	r <sub>y,net</sub> (in)	M <sub>al,full</sub> (in-kips)	M <sub>ad,full</sub> (in-kips)	M <sub>al,exhole</sub> (in-kips)	M <sub>ad,exhole</sub> (in-kips)	V <sub>a,full</sub> (lbs)	V <sub>a,exhole</sub> (lbs)
725TDJ24-175-43	7.25	1.75	0.0451	1.721	0.526	3.898	2.723	0.206	0.626	0.390	3.868	3.149	0.160	0.639	18.11	18.89	21.09	17.95	1163	948
725TDJ24-175-54	7.25	1.75	0.0566	2.146	0.655	4.825	2.714	0.251	0.620	0.483	4.782	3.145	0.194	0.633	34.44	33.70	39.50	31.67	2316	1387
725TDJ24-175-68	7.25	1.75	0.0713	2.673	0.817	5.964	2.701	0.305	0.611	0.598	5.899	3.140	0.233	0.625	49.25	45.50	48.72	42.58	4679	1982
725TDJ24-175-97	7.25	1.75	0.1017	3.758	1.143	8.170	2.674	0.401	0.297	0.821	8.046	3.130	0.302	0.606	67.47	67.47	66.45	65.21	10888	2413
800TDJ24-175-43	8.00	1.75	0.0451	1.829	0.559	4.942	2.972	0.211	0.615	0.424	4.912	3.404	0.171	0.635	19.56	20.82	24.27	19.77	1051	949
800TDJ24-175-54	8.00	1.75	0.0566	2.284	0.698	6.122	2.962	0.258	0.608	0.526	6.079	3.400	0.208	0.629	37.23	37.10	45.50	34.86	2091	1436
800TDJ24-175-68	8.00	1.75	0.0713	2.850	0.871	7.573	2.949	0.313	0.599	0.652	7.508	3.394	0.251	0.621	53.58	50.39	56.20	46.92	4220	2082
800TDJ24-175-97	8.00	1.75	0.1017	4.007	1.219	10.396	2.920	0.411	0.581	0.898	10.272	3.383	0.326	0.603	77.82	77.82	76.88	73.14	10888	2947
925TDJ24-175-43	9.25	1.75	0.0451	2.015	0.616	7.037	3.380	0.219	0.597	0.390	6.676	4.137	0.160	0.639	21.94	23.65	28.52	21.66	905	817
925TDJ24-175-54	9.25	1.75	0.0566	2.516	0.768	8.725	3.370	0.268	0.590	0.483	8.258	4.133	0.194	0.633	41.78	42.10	53.46	37.94	1799	1500
925TDJ24-175-68	9.25	1.75	0.0713	3.141	0.960	10.809	3.355	0.324	0.581	0.598	10.196	4.128	0.233	0.625	60.41	57.70	66.00	51.32	3627	2212
925TDJ24-175-97	9.25	1.75	0.1017	4.423	1.346	14.880	3.325	0.426	0.563	0.821	13.932	4.119	0.302	0.606	96.33	91.97	90.19	80.11	10708	3772
1125TDJ24-175-54	11.25	1.75	0.0566	2.886	0.882	14.162	4.008	0.279	0.563	0.597	13.694	4.791	0.228	0.618	48.89	48.46	72.89	43.75	1471	1328
1125TDJ24-175-68	11.25	1.75	0.0713	3.605	1.103	17.574	3.992	0.339	0.554	0.741	16.959	4.785	0.275	0.610	71.02	67.33	90.27	59.81	2961	2357
1125TDJ24-175-97	11.25	1.75	0.1017	5.087	1.550	24.283	3.959	0.445	0.536	1.025	23.332	4.772	0.359	0.592	124.55	110.42	124.19	93.32	8714	4208
1000TDW24-200-54	10.00	2.00	0.0566	2.748	0.839	11.271	3.665	0.377	0.671	0.554	10.804	4.415	0.287	0.720	47.19	47.55	64.70	44.51	1660	1499
1000TDW24-200-68	10.00	2.00	0.0713	3.432	1.049	13.984	3.651	0.459	0.662	0.687	13.370	4.411	0.348	0.712	68.49	65.48	80.06	60.94	3345	2273
1000TDW24-200-97	10.00	2.00	0.1017	4.838	1.473	19.314	3.621	0.609	0.643	0.948	18.365	4.400	0.456	0.693	115.65	105.53	109.97	97.43	9862	3957
1200TDW24-200-54	12.00	2.00	0.0566	3.118	0.952	17.653	4.305	0.393	0.643	0.568	16.354	5.364	0.293	0.718	54.46	54.31	81.61	49.12	1377	1243
1200TDW24-200-68	12.00	2.00	0.0713	3.898	1.192	21.932	4.290	0.478	0.634	0.705	20.255	5.360	0.355	0.710	79.37	75.62	101.07	67.66	2770	2399
1200TDW24-200-97	12.00	2.00	0.1017	5.503	1.677	30.386	4.257	0.634	0.615	0.974	27.868	5.349	0.466	0.692	140.02	124.65	139.06	108.67	8145	4332
1400TDW24-200-68	14.00	2.00	0.0713	4.365	1.334	32.264	4.917	0.494	0.608	0.705	28.447	6.352	0.355	0.710	90.00	83.53	121.67	70.71	2364	2135
1400TDW24-200-97	14.00	2.00	0.1017	6.168	1.880	44.810	4.882	0.654	0.590	0.974	39.167	6.342	0.466	0.692	160.03	140.74	167.52	110.38	6938	4596

Product Code	Torsional Section Properties						Effective Section Properties		Unbraced Length
	X <sub>o</sub> (in)	X (in)	J*1000 (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	R <sub>o</sub> (in)	β	I <sub>xe</sub> (in <sup>4</sup> )	S <sub>xe</sub> (in <sup>3</sup> )	
725TDJ24-175-43	-1.138	0.414	0.356	2.251	3.018	0.858	3.827	0.916	45.0
725TDJ24-175-54	-1.125	0.408	0.700	2.758	3.003	0.860	4.752	1.150	36.3
725TDJ24-175-68	-1.109	0.400	1.386	3.367	2.984	0.862	5.969	1.645	36.1
725TDJ24-175-97	-1.075	0.384	3.942	4.498	2.943	0.867	8.181	2.254	35.7
800TDJ24-175-43	-1.086	0.389	0.379	2.794	3.224	0.887	4.797	0.990	44.6
800TDJ24-175-54	-1.074	0.383	0.745	3.423	3.210	0.888	5.961	1.243	36.0
800TDJ24-175-68	-1.058	0.376	1.476	4.182	3.191	0.890	7.544	1.790	35.7
800TDJ24-175-97	-1.025	0.360	4.205	5.595	3.150	0.894	10.411	2.599	35.3
925TDJ24-175-43	-1.010	0.353	0.418	3.852	3.579	0.920	6.685	1.110	43.9
925TDJ24-175-54	-0.998	0.348	0.821	4.724	3.565	0.922	8.320	1.395	35.4
925TDJ24-175-68	-0.983	0.341	1.627	5.776	3.546	0.923	10.598	2.018	35.2
925TDJ24-175-97	-0.952	0.326	4.644	7.739	3.505	0.926	14.899	3.217	34.6
1125TDJ24-175-54	-0.899	0.303	0.942	7.319	4.148	0.953	13.019	1.633	34.6
1125TDJ24-175-68	-0.885	0.297	1.869	8.956	4.128	0.954	16.728	2.372	34.3
1125TDJ24-175-97	-0.856	0.284	5.345	12.023	4.087	0.956	24.200	4.160	33.7
1000TDW24-200-54	-1.135	0.398	0.896	7.665	3.896	0.915	10.652	1.576	39.8
1000TDW24-200-68	-1.120	0.391	1.779	9.401	3.877	0.917	13.596	2.288	39.6
1000TDW24-200-97	-1.088	0.376	5.082	12.679	3.836	0.920	19.337	3.863	39.1
1200TDW24-200-54	-1.032	0.351	1.017	11.550	4.475	0.947	16.107	1.819	39.0
1200TDW24-200-68	-1.017	0.344	2.020	14.176	4.456	0.948	20.712	2.651	38.7
1200TDW24-200-97	-0.987	0.331	5.783	19.150	4.415	0.950	30.071	4.677	38.1
1400TDW24-200-68	-0.932	0.308	2.262	20.083	5.043	0.966	29.518	3.006	37.9
1400TDW24-200-97	-0.904	0.295	6.484	27.156	5.002	0.967	43.378	5.345	37.3



**Note:**  
See pages 8-9 for more information on extruded hole sizes and spacing.

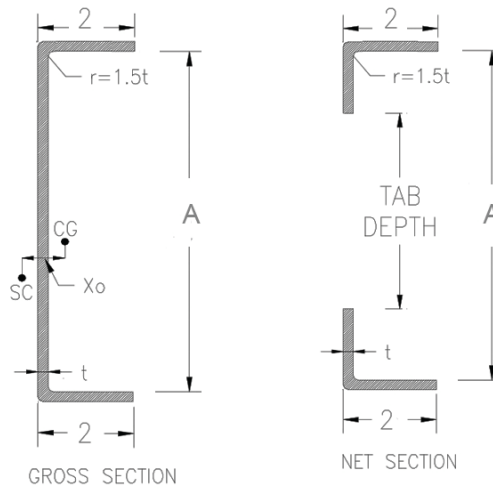
- Notes:**
- 1 Allowable capacities are in accordance with AISI S100-16 w/S2-20 (Direct Strength Method (DSM) utilized for calculating flexural strength).
  - 2 F<sub>y</sub> = 33 ksi for 18ga, and 50 ksi for 16ga, 14ga and 12ga.

- I<sub>x</sub> = Moment of Inertia about X axis
- I<sub>y</sub> = Moment of Inertia about Y axis
- r<sub>x</sub> = Radius of Gyration about X axis
- r<sub>y</sub> = Radius of Gyration about Y axis
- S<sub>xe</sub> = Effective Section Modulus at Stress = F<sub>y</sub>
- I<sub>xe</sub> = Effective Moment of Inertia of Full Section for Deflection Calculations
- M<sub>al,full</sub> = Fully Braced Allowable Local Moment at Full Section
- M<sub>ad,full</sub> = Fully Braced Allowable Distortional Moment at Full Section
- M<sub>al,exhole</sub> = Fully Braced Allowable Local Moment at Extruded Hole
- M<sub>ad,exhole</sub> = Fully Braced Allowable Distortional Moment at Extruded Hole
- V<sub>a,full</sub> = Allowable Shear at Full Section
- V<sub>a,exhole</sub> = Allowable Shear at Extruded Hole
- X<sub>o</sub> = Distance between Centroid and Shear-center
- X = Distance between Centroid and Web-centerline
- J = St. Venant Torsional Constant
- C<sub>w</sub> = Torsional Warping Constant
- R<sub>o</sub> = Radius of Gyration about Centroid
- β = 1-(X<sub>o</sub>/R<sub>o</sub>)<sup>2</sup>
- L<sub>u</sub> = Critical unbraced length for lateral-torsional buckling

**STRUCTURAL PROPERTIES TradeReady® RIM TRACK**

Product Code	Dimensions		Weight (lbs/ft)	Gross Section Properties					Net Section Properties (at Extruded Hole)					Effective Section Properties						
	Depth A (in)	Thickness (in)		Area (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	r <sub>y</sub> (in)	Area (in <sup>2</sup> )	I <sub>x,net</sub> (in <sup>4</sup> )	r <sub>x,net</sub> (in)	I <sub>y,net</sub> (in <sup>4</sup> )	r <sub>y,net</sub> (in)	A <sub>e</sub> (in <sup>2</sup> )	I <sub>xe</sub> (in <sup>4</sup> )	S <sub>xe</sub> (in <sup>3</sup> )	M <sub>al,full</sub> (in-kips)	M <sub>al,exhole</sub> (in-kips)	V <sub>s,full</sub> (lbs)	V <sub>s,exhole</sub> (lbs)
725TD200-43	7.34	0.0451	1.714	0.504	3.785	2.741	0.171	0.582	0.323	3.543	3.310	0.136	0.649	0.162	3.346	0.532	14.24	10.51	1148	733
725TD200-54	7.36	0.0566	2.148	0.631	4.746	2.742	0.212	0.580	0.405	4.443	3.313	0.170	0.647	0.213	4.273	0.697	28.32	20.88	2279	1148
725TD200-68	7.39	0.0713	2.700	0.793	5.969	2.743	0.266	0.578	0.508	5.587	3.316	0.211	0.645	0.328	5.713	1.054	40.96	31.56	4584	1807
725TD200-97	7.45	0.1017	3.833	1.126	8.482	2.744	0.369	0.572	0.720	7.938	3.321	0.294	0.639	0.624	8.966	1.935	66.15	57.94	10888	2919
800TD200-43	8.09	0.0451	1.829	0.538	4.785	2.984	0.175	0.570	0.357	4.543	3.567	0.145	0.638	0.164	3.966	0.592	14.23	11.70	1039	823
800TD200-54	8.11	0.0566	2.292	0.674	6.000	2.984	0.217	0.568	0.447	5.696	3.569	0.181	0.636	0.215	5.102	0.777	28.09	23.26	2061	1291
800TD200-68	8.14	0.0713	2.882	0.847	7.545	2.985	0.271	0.565	0.562	7.162	3.571	0.225	0.633	0.332	7.119	1.178	42.27	35.26	4143	2037
800TD200-97	8.20	0.1017	4.092	1.203	10.719	2.985	0.378	0.560	0.796	10.174	3.575	0.314	0.628	0.638	11.310	2.177	76.02	65.19	10888	3663
925TD200-43	9.34	0.0451	2.021	0.594	6.794	3.382	0.180	0.551	0.414	6.551	3.980	0.157	0.617	0.165	5.490	0.692	16.67	13.68	896	896
925TD200-54	9.36	0.0566	2.533	0.744	8.518	3.383	0.224	0.549	0.518	8.213	3.982	0.196	0.615	0.217	7.065	0.908	32.94	27.19	1777	1477
925TD200-68	9.39	0.0713	3.185	0.936	10.709	3.382	0.279	0.546	0.651	10.325	3.983	0.244	0.612	0.337	9.914	1.381	49.84	41.36	3570	2334
925TD200-97	9.45	0.1017	4.525	1.330	15.210	3.382	0.390	0.541	0.923	14.663	3.986	0.340	0.607	0.653	16.005	2.573	90.90	77.05	10464	4711
1000TD200-54	10.11	0.0566	2.678	0.787	10.304	3.619	0.228	0.538	0.444	9.282	4.555	0.181	0.636	0.215	8.412	0.987	35.84	29.56	1641	1028
1000TD200-68	10.14	0.0713	3.367	0.989	12.954	3.618	0.284	0.535	0.562	11.666	4.557	0.225	0.633	0.332	11.841	1.504	54.39	45.03	3296	1621
1000TD200-97	10.20	0.1017	4.784	1.406	18.398	3.617	0.396	0.530	0.796	16.561	4.562	0.314	0.628	0.638	19.329	2.802	99.86	83.91	9655	3248
1125TD200-54	11.36	0.0566	2.918	0.858	13.779	4.008	0.233	0.521	0.518	12.755	4.962	0.196	0.615	0.217	10.945	1.119	40.68	33.50	1456	1210
1125TD200-68	11.39	0.0713	3.670	1.079	17.322	4.007	0.290	0.519	0.651	16.032	4.963	0.244	0.612	0.337	15.482	1.709	61.97	51.18	2923	1911
1125TD200-97	11.45	0.1017	5.217	1.533	24.599	4.006	0.404	0.514	0.923	22.760	4.966	0.340	0.607	0.653	25.551	3.209	114.83	96.08	8552	3850
1200TD200-54	12.11	0.0566	3.063	0.900	16.182	4.240	0.235	0.511	0.561	15.157	5.200	0.203	0.601	0.218	12.641	1.197	43.58	35.84	1364	1301
1200TD200-68	12.14	0.0713	3.852	1.132	20.343	4.239	0.293	0.509	0.704	19.052	5.201	0.253	0.599	0.339	17.928	1.831	66.51	54.82	2737	2056
1200TD200-97	12.20	0.1017	5.477	1.609	28.889	4.237	0.409	0.504	0.999	27.048	5.203	0.352	0.594	0.658	29.714	3.448	123.82	103.23	8004	4150
1400TD200-68	14.14	0.0713	4.337	1.275	29.998	4.851	0.301	0.486	0.847	28.702	5.822	0.271	0.565	0.342	25.430	2.154	78.62	64.51	2340	2340
1400TD200-97	14.20	0.1017	6.169	1.813	42.602	4.848	0.420	0.481	1.203	40.754	5.821	0.378	0.560	0.668	42.590	4.078	147.82	122.11	6835	4788

Product Code	Torsional Section Properties						Unbraced Length (in <sup>3</sup> )
	X <sub>o</sub> (in)	X (in)	J*1000 (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	R <sub>o</sub> (in)	β	
725TD200-43	-0.962	0.612	0.342	1.657	2.963	0.894	40.6
725TD200-54	-0.958	0.609	0.674	2.070	2.962	0.895	32.9
725TD200-68	-0.953	0.606	1.344	2.594	2.960	0.896	33.0
725TD200-97	-0.942	0.598	3.883	3.660	2.957	0.899	33.1
800TD200-43	-0.917	0.589	0.364	2.081	3.173	0.916	40.3
800TD200-54	-0.913	0.586	0.719	2.599	3.172	0.917	32.7
800TD200-68	-0.908	0.583	1.435	3.256	3.171	0.918	32.7
800TD200-97	-0.897	0.576	4.146	4.588	3.167	0.920	32.8
925TD200-43	-0.851	0.554	0.403	2.910	3.531	0.942	39.8
925TD200-54	-0.847	0.552	0.795	3.634	3.530	0.942	32.3
925TD200-68	-0.843	0.548	1.586	4.549	3.528	0.943	32.3
925TD200-97	-0.833	0.542	4.855	6.402	3.525	0.944	32.3
1000TD200-54	-0.813	0.533	0.840	4.348	3.748	0.953	32.1
1000TD200-68	-0.808	0.530	1.677	5.441	3.746	0.953	32.0
1000TD200-97	-0.798	0.523	4.848	7.654	3.742	0.955	32.0
1125TD200-54	-0.761	0.504	0.916	5.699	4.113	0.966	31.6
1125TD200-68	-0.756	0.501	1.828	7.128	4.111	0.966	31.6
1125TD200-97	-0.747	0.495	5.286	10.019	4.107	0.967	31.5
1200TD200-54	-0.733	0.488	0.961	6.607	4.333	0.971	31.3
1200TD200-68	-0.728	0.485	1.918	8.262	4.331	0.972	31.3
1200TD200-97	-0.719	0.479	5.549	11.607	4.327	0.972	31.2
1400TD200-68	-0.664	0.448	2.160	11.738	4.920	0.982	30.5
1400TD200-97	-0.655	0.442	6.250	16.473	4.915	0.982	30.4



**Tab Depth:**  
 4" inches (joist depths up to 9.25")  
 6" inches (joist depth greater than 9.25")  
 Prepunched tabs are located at 12", 16", 19.2" or 24" o.c.

**Notes:**

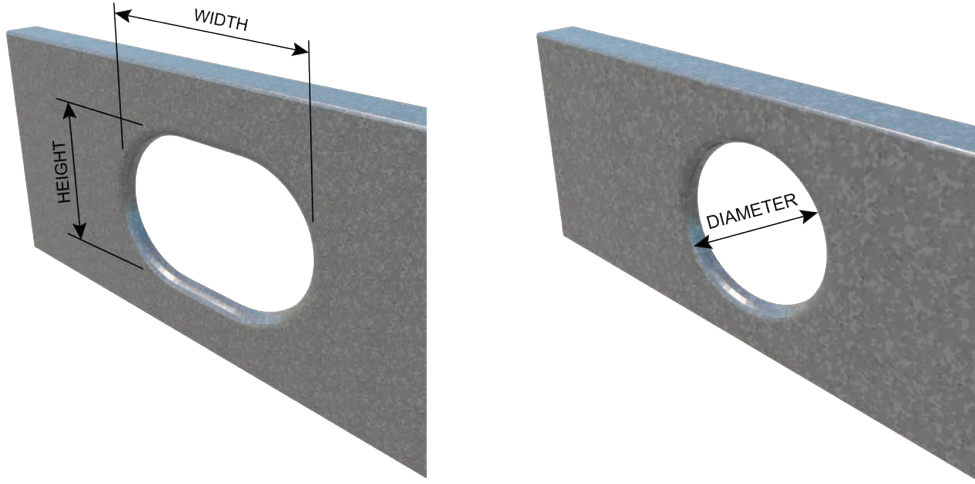
- 1 Allowable capacities are in accordance with AISI S100-16 w/S2-20 Supplement.
- 2 F<sub>y</sub> = 33 ksi for 18ga, and 50 ksi for 16ga, 14ga and 12ga.

I<sub>x</sub> = Moment of Inertia about X axis  
 I<sub>y</sub> = Moment of Inertia about Y axis  
 r<sub>x</sub> = Radius of Gyration about X axis  
 r<sub>y</sub> = Radius of Gyration about Y axis  
 I<sub>xe</sub> = Effective Moment of Inertia of Full Section for Deflection Calculations  
 S<sub>xe</sub> = Effective Section Modulus at Stress = F<sub>y</sub>  
 A<sub>e</sub> = Effective Area  
 M<sub>al,full</sub> = Fully Braced Allowable Local Moment at Full Section  
 M<sub>al,exhole</sub> = Fully Braced Allowable Local Moment at Extruded Hole

V<sub>s,full</sub> = Allowable Shear at Full Section  
 V<sub>s,exhole</sub> = Allowable Shear at Extruded Hole  
 L<sub>u</sub> = Critical unbraced length for lateral-torsional buckling  
 X<sub>o</sub> = Distance between Centroid and Shear-center  
 X = Distance between Shear-center and Web-centerline  
 J = St. Venant Torsional Constant  
 C<sub>w</sub> = Torsional Warping Constant  
 R<sub>o</sub> = Radius of Gyration about Centroid  
 β = 1-(X<sub>o</sub>/R<sub>o</sub>)<sup>2</sup>

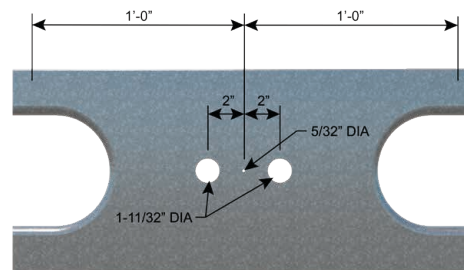
## EXTRUDED HOLE SIZE AND SPACING

	EXTRUDED HOLE DIAMETER PER JOIST SIZE						
Joist Size	7-1/4"	8"	9-1/4"	10"	11-1/4"	12"	14"
Extruded Hole Height	4-1/4"	4-1/4"	6-1/4"	6-1/4"	6-1/4"		
Extruded Hole Width	7"	7"	9"	9"	9"		
Extruded Hole Diameter						8"	10"

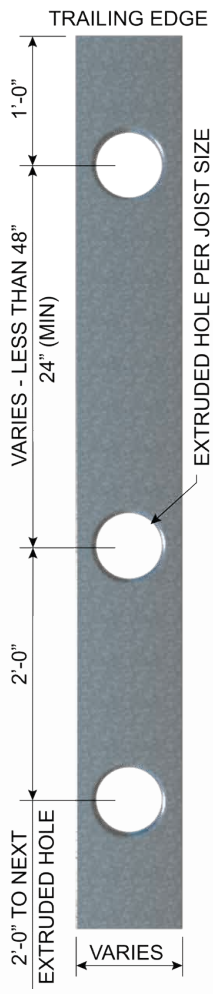


### OPTIONAL SMALL HOLE SIZE AND PATTERN:

- 1-11/32" holes are commonly used for electrical and plumbing
- 5/32" holes for insulation support wire





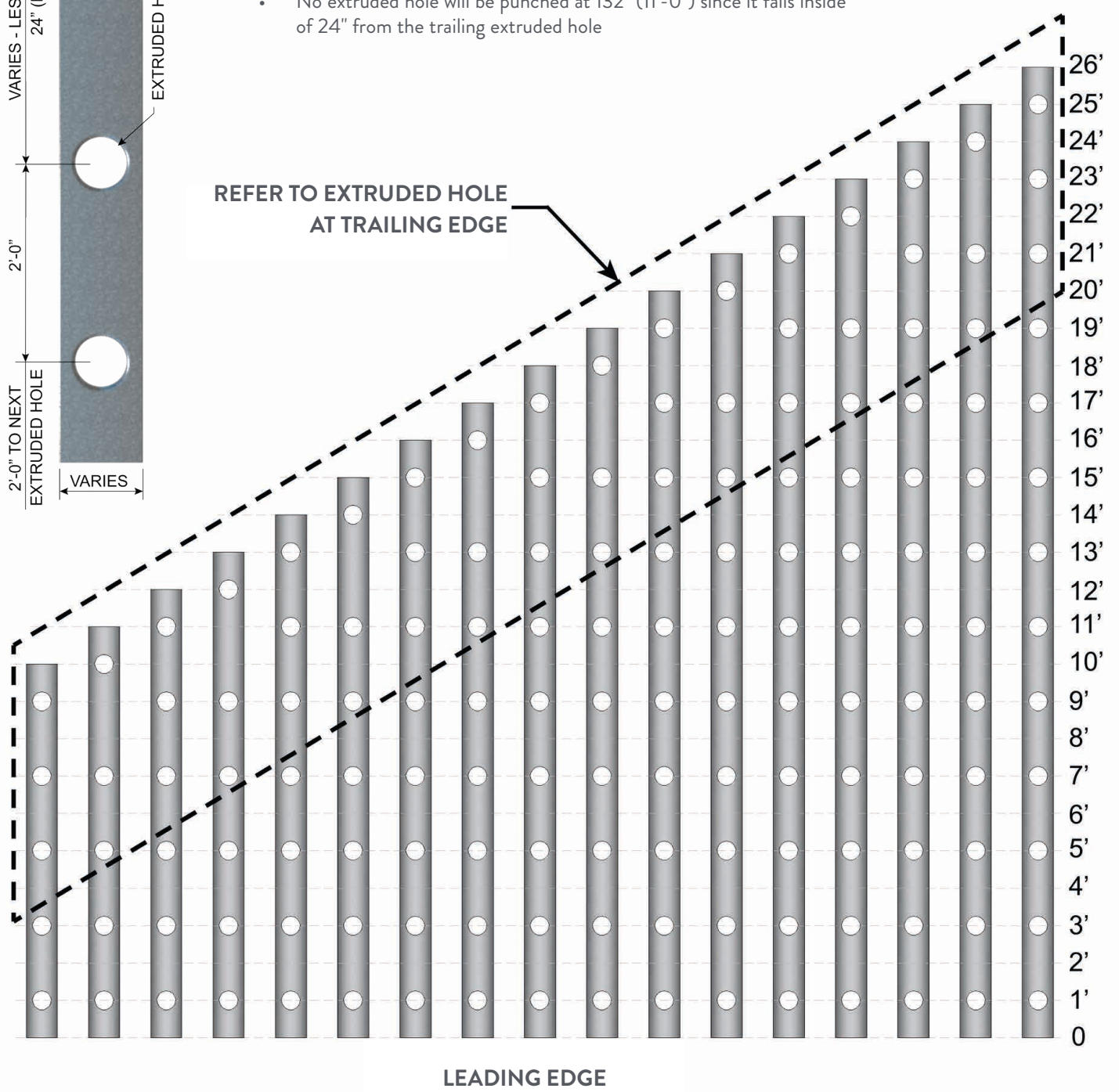


**EXTRUDED HOLE AND SMALL HOLE SPACING:**

- 12" to center of first extruded hole from leading edge
- 24" to center of each additional extruded hole - But not closer than 24" o.c. to the last (Trailing edge) extruded hole
- Last extruded hole is centered 12" from end of the joist (Trailing edge)

For example: 13'-0" long joist will have holes at:

- 12" (1'-0") - First extruded hole 12" from leading edge
- 36" (3'-0") - 24" o.c. from first extruded hole
- 144" (12'-0") - Trailing extruded hole 12" from trailing edge
  - No extruded hole will be punched at 132" (11'-0") since it falls inside of 24" from the trailing extruded hole



## TRADEREADY® FLOOR JOIST SPAN TABLES

### GENERAL NOTES.

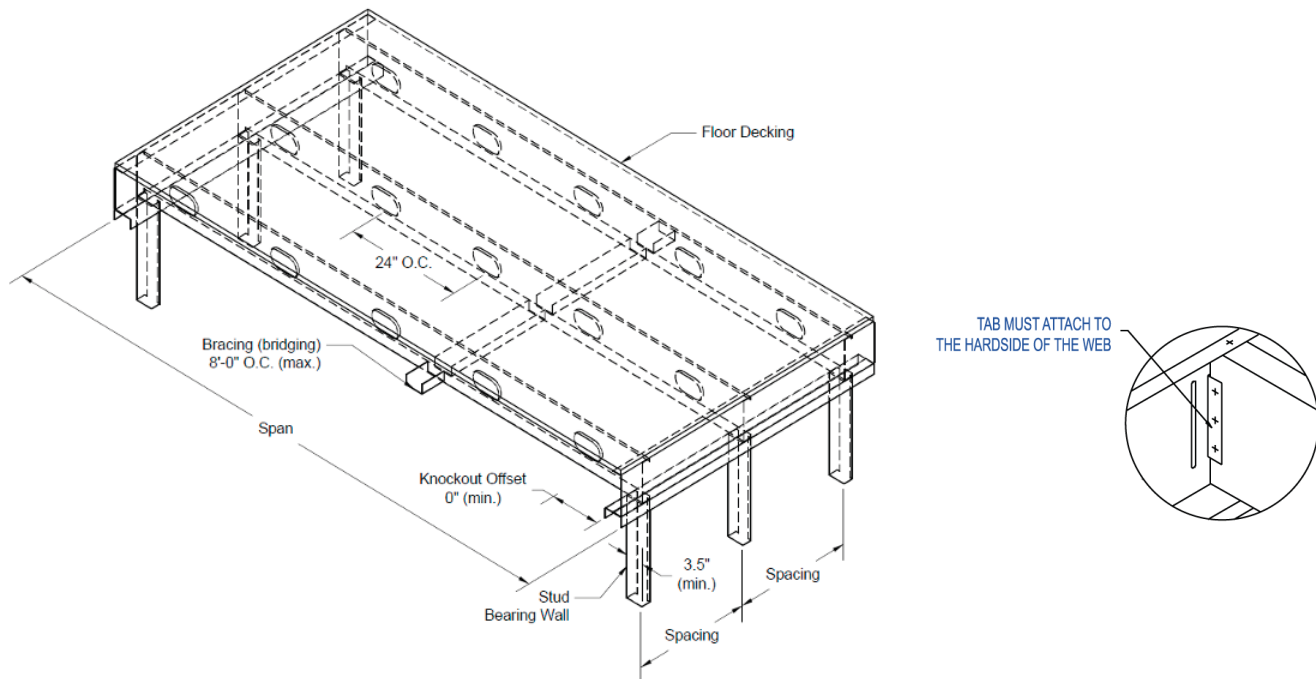
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Product, application renderings and photographs are provided as a tool to show the general intent of the framing or finishing application only. These renderings or photographs may or may not be applicable to a specific project. They do not replace or supersede the architect or engineer of record, AISI or ASTM guidelines, U.S. national or local building codes, or approved industry standards.

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All products described here may not be available in all geographic markets. Consult your local sales office for information.

TradeReady®, Floor Joist Span Tables are to be utilized in conjunction with the notes below.



### SPAN TABLE NOTES

- TradeReady Joist Span Tables are based on simply support condition.
- Span tables are based on continuous lateral support of the compression flange.
- Distortional buckling capacity included for flexural strength calculation of span table.
- Web crippling capacity is based on a minimum bearing length of 3.5". The minimum available TradeReady® Rim Track thickness is used.
- Recommended bridging is 8'0" on center maximum and needs to be in place before loading the floor system.
- $F_y = 33$  ksi for 18 gauge.  
 $F_y = 50$  ksi for 16, 14, and 12 gauge.
- If an additional point load is located at the end bearing (e.g. from a wall above), web crippling must be checked separately.
- The minimum bearing stud flange is 1.625".
- The joist rim must be installed according to the installation instructions on page 42.
- Rim tab must be attached to the hard side of the joist.
- Spans are not valid if any portion of the TradeReady® rolled hole falls over a bearing point.
- TDJ = 1 3/4" flange; TDW = 2" flange  
TL = Total Load; LL = Live Load

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 40 psf**

Product Code	10 psf Dead Load and 40 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	15' 6"	13' 5"	12' 3"	10' 11"	14' 9"	13' 5"	12' 3"	10' 11"
725TDJ24-175-54	17' 5"	15' 10"	14' 11"	13' 10"	15' 10"	14' 4"	13' 6"	12' 7"
725TDJ24-175-68	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
725TDJ24-175-97	20' 9"	18' 10"	17' 9"	16' 6"	18' 10"	17' 1"	16' 1"	15' 0"
800TDJ24-175-43	16' 2"	14' 0"	12' 9"	11' 5"	15' 11"	14' 0"	12' 9"	11' 5"
800TDJ24-175-54	18' 10"	17' 1"	16' 1"	14' 11"	17' 1"	15' 7"	14' 8"	13' 7"
800TDJ24-175-68	20' 3"	18' 5"	17' 4"	16' 1"	18' 5"	16' 8"	15' 9"	14' 7"
800TDJ24-175-97	22' 6"	20' 5"	19' 3"	17' 10"	20' 5"	18' 7"	17' 6"	16' 3"
925TDJ24-175-43	17' 0"	14' 9"	13' 5"	12' 0"	17' 0"	14' 9"	13' 5"	12' 0"
925TDJ24-175-54	21' 2"	19' 3"	17' 9"	15' 11"	19' 3"	17' 6"	16' 6"	15' 3"
925TDJ24-175-68	22' 9"	20' 8"	19' 6"	18' 1"	20' 8"	18' 10"	17' 8"	16' 5"
925TDJ24-175-97	25' 4"	23' 0"	21' 8"	20' 1"	23' 0"	20' 11"	19' 8"	18' 3"
1125TDJ24-175-54	24' 2"	20' 11"	19' 1"	17' 1"	22' 8"	20' 7"	19' 1"	17' 1"
1125TDJ24-175-68	26' 9"	24' 4"	22' 4"	20' 0"	24' 4"	22' 1"	20' 10"	19' 4"
1125TDJ24-175-97	29' 10"	27' 1"	25' 6"	23' 8"	27' 1"	24' 7"	23' 2"	21' 6"
1000TDW24-200-54	23' 1"	21' 0"	19' 3"	17' 3"	21' 0"	19' 1"	17' 11"	16' 8"
1000TDW24-200-68	24' 10"	22' 7"	21' 3"	19' 8"	22' 7"	20' 6"	19' 3"	17' 11"
1000TDW24-200-97	27' 8"	25' 1"	23' 8"	21' 11"	25' 1"	22' 10"	21' 6"	19' 11"
1200TDW24-200-54	25' 7"	22' 2"	20' 3"	18' 1"	24' 4"	22' 2"	20' 3"	18' 1"
1200TDW24-200-68	28' 10"	26' 0"	23' 9"	21' 3"	26' 2"	23' 10"	22' 5"	20' 9"
1200TDW24-200-97	32' 2"	29' 2"	27' 6"	25' 6"	29' 2"	26' 6"	25' 0"	23' 2"
1400TDW24-200-68	30' 8"	26' 7"	24' 3"	21' 9"	29' 9"	26' 7"	24' 3"	21' 9"
1400TDW24-200-97	36' 7"	33' 3"	30' 4"	27' 2"	33' 3"	30' 2"	28' 5"	26' 5"

**Live Load = 40 psf**

Product Code	12 psf Dead Load and 40 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	15' 2"	13' 2"	12' 0"	10' 9"	14' 9"	13' 2"	12' 0"	10' 9"
725TDJ24-175-54	17' 5"	15' 10"	14' 11"	13' 10"	15' 10"	14' 4"	13' 6"	12' 7"
725TDJ24-175-68	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
725TDJ24-175-97	20' 9"	18' 10"	17' 9"	16' 6"	18' 10"	17' 1"	16' 1"	15' 0"
800TDJ24-175-43	15' 10"	13' 9"	12' 6"	11' 2"	15' 10"	13' 9"	12' 6"	11' 2"
800TDJ24-175-54	18' 10"	17' 1"	16' 1"	14' 11"	17' 1"	15' 7"	14' 8"	13' 7"
800TDJ24-175-68	20' 3"	18' 5"	17' 4"	16' 1"	18' 5"	16' 8"	15' 9"	14' 7"
800TDJ24-175-97	22' 6"	20' 5"	19' 3"	17' 10"	20' 5"	18' 7"	17' 6"	16' 3"
925TDJ24-175-43	16' 8"	14' 5"	13' 2"	11' 9"	16' 8"	14' 5"	13' 2"	11' 9"
925TDJ24-175-54	21' 2"	19' 1"	17' 5"	15' 7"	19' 3"	17' 6"	16' 6"	15' 3"
925TDJ24-175-68	22' 9"	20' 8"	19' 6"	18' 1"	20' 8"	18' 10"	17' 8"	16' 5"
925TDJ24-175-97	25' 4"	23' 0"	21' 8"	20' 1"	23' 0"	20' 11"	19' 8"	18' 3"
1125TDJ24-175-54	23' 8"	20' 6"	18' 9"	16' 9"	22' 8"	20' 6"	18' 9"	16' 9"
1125TDJ24-175-68	26' 9"	24' 0"	21' 11"	19' 7"	24' 4"	22' 1"	20' 10"	19' 4"
1125TDJ24-175-97	29' 10"	27' 1"	25' 6"	23' 8"	27' 1"	24' 7"	23' 2"	21' 6"
1000TDW24-200-54	23' 1"	20' 8"	18' 11"	16' 11"	21' 0"	19' 1"	17' 11"	16' 8"
1000TDW24-200-68	24' 10"	22' 7"	21' 3"	19' 8"	22' 7"	20' 6"	19' 3"	17' 11"
1000TDW24-200-97	27' 8"	25' 1"	23' 8"	21' 11"	25' 1"	22' 10"	21' 6"	19' 11"
1200TDW24-200-54	25' 1"	21' 9"	19' 10"	17' 9"	24' 4"	21' 9"	19' 10"	17' 9"
1200TDW24-200-68	28' 10"	25' 6"	23' 3"	20' 10"	26' 2"	23' 10"	22' 5"	20' 9"
1200TDW24-200-97	32' 2"	29' 2"	27' 6"	25' 6"	29' 2"	26' 6"	25' 0"	23' 2"
1400TDW24-200-68	30' 1"	26' 1"	23' 10"	21' 3"	29' 9"	26' 1"	23' 10"	21' 3"
1400TDW24-200-97	36' 7"	32' 7"	29' 9"	26' 7"	33' 3"	30' 2"	28' 5"	26' 5"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 40 psf**

Product Code	15 psf Dead Load and 40 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	14' 9"	12' 9"	11' 8"	10' 5"	14' 9"	12' 9"	11' 8"	10' 5"
725TDJ24-175-54	17' 5"	15' 10"	14' 11"	13' 10"	15' 10"	14' 4"	13' 6"	12' 7"
725TDJ24-175-68	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
725TDJ24-175-97	20' 9"	18' 10"	17' 9"	16' 6"	18' 10"	17' 1"	16' 1"	15' 0"
800TDJ24-175-43	15' 5"	13' 4"	12' 2"	10' 11"	15' 5"	13' 4"	12' 2"	10' 11"
800TDJ24-175-54	18' 10"	17' 1"	16' 1"	14' 6"	17' 1"	15' 7"	14' 8"	13' 7"
800TDJ24-175-68	20' 3"	18' 5"	17' 4"	16' 1"	18' 5"	16' 8"	15' 9"	14' 7"
800TDJ24-175-97	22' 6"	20' 5"	19' 3"	17' 10"	20' 5"	18' 7"	17' 6"	16' 3"
925TDJ24-175-43	16' 2"	14' 0"	12' 10"	11' 5"	16' 2"	14' 0"	12' 10"	11' 5"
925TDJ24-175-54	21' 2"	18' 7"	16' 11"	15' 2"	19' 3"	17' 6"	16' 6"	15' 2"
925TDJ24-175-68	22' 9"	20' 8"	19' 6"	17' 8"	20' 8"	18' 10"	17' 8"	16' 5"
925TDJ24-175-97	25' 4"	23' 0"	21' 8"	20' 1"	23' 0"	20' 11"	19' 8"	18' 3"
1125TDJ24-175-54	23' 0"	19' 11"	18' 2"	16' 3"	22' 8"	19' 11"	18' 2"	16' 3"
1125TDJ24-175-68	26' 9"	23' 4"	21' 3"	19' 0"	24' 4"	22' 1"	20' 10"	19' 0"
1125TDJ24-175-97	29' 10"	27' 1"	25' 6"	23' 8"	27' 1"	24' 7"	23' 2"	21' 6"
1000TDW24-200-54	23' 1"	20' 1"	18' 4"	16' 5"	21' 0"	19' 1"	17' 11"	16' 5"
1000TDW24-200-68	24' 10"	22' 7"	21' 3"	19' 3"	22' 7"	20' 6"	19' 3"	17' 11"
1000TDW24-200-97	27' 8"	25' 1"	23' 8"	21' 11"	25' 1"	22' 10"	21' 6"	19' 11"
1200TDW24-200-54	24' 5"	21' 2"	19' 3"	17' 3"	24' 4"	21' 2"	19' 3"	17' 3"
1200TDW24-200-68	28' 8"	24' 10"	22' 8"	20' 3"	26' 2"	23' 10"	22' 5"	20' 3"
1200TDW24-200-97	32' 2"	29' 2"	27' 6"	25' 6"	29' 2"	26' 6"	25' 0"	23' 2"
1400TDW24-200-68	29' 3"	25' 4"	23' 2"	20' 8"	29' 3"	25' 4"	23' 2"	20' 8"
1400TDW24-200-97	36' 7"	31' 8"	28' 11"	25' 10"	33' 3"	30' 2"	28' 5"	25' 10"

**Live Load = 40 psf**

Product Code	25 psf Dead Load and 40 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	13' 7"	11' 9"	10' 9"	9' 7"	13' 7"	11' 9"	10' 9"	9' 7"
725TDJ24-175-54	16' 11"	15' 5"	14' 3"	12' 9"	15' 10"	14' 4"	13' 6"	12' 7"
725TDJ24-175-68	18' 2"	16' 6"	15' 7"	14' 5"	17' 0"	15' 5"	14' 6"	13' 6"
725TDJ24-175-97	20' 2"	18' 4"	17' 3"	16' 0"	18' 10"	17' 1"	16' 1"	15' 0"
800TDJ24-175-43	14' 2"	12' 3"	11' 2"	10' 0"	14' 2"	12' 3"	11' 2"	10' 0"
800TDJ24-175-54	18' 4"	16' 5"	14' 11"	13' 4"	17' 1"	15' 7"	14' 8"	13' 4"
800TDJ24-175-68	19' 8"	17' 11"	16' 10"	15' 6"	18' 5"	16' 8"	15' 9"	14' 7"
800TDJ24-175-97	21' 11"	19' 11"	18' 9"	17' 4"	20' 5"	18' 7"	17' 6"	16' 3"
925TDJ24-175-43	14' 11"	12' 11"	11' 9"	10' 6"	14' 11"	12' 11"	11' 9"	10' 6"
925TDJ24-175-54	19' 9"	17' 1"	15' 7"	13' 11"	19' 3"	17' 1"	15' 7"	13' 11"
925TDJ24-175-68	22' 2"	19' 10"	18' 2"	16' 3"	20' 8"	18' 10"	17' 8"	16' 3"
925TDJ24-175-97	24' 8"	22' 5"	21' 1"	19' 7"	23' 0"	20' 11"	19' 8"	18' 3"
1125TDJ24-175-54	21' 2"	18' 4"	16' 9"	15' 0"	21' 2"	18' 4"	16' 9"	15' 0"
1125TDJ24-175-68	24' 9"	21' 5"	19' 7"	17' 6"	24' 4"	21' 5"	19' 7"	17' 6"
1125TDJ24-175-97	29' 0"	26' 5"	24' 5"	21' 11"	27' 1"	24' 7"	23' 2"	21' 6"
1000TDW24-200-54	21' 4"	18' 6"	16' 11"	15' 1"	21' 0"	18' 6"	16' 11"	15' 1"
1000TDW24-200-68	24' 2"	21' 8"	19' 9"	17' 8"	22' 7"	20' 6"	19' 3"	17' 8"
1000TDW24-200-97	26' 11"	24' 5"	23' 0"	21' 4"	25' 1"	22' 10"	21' 6"	19' 11"
1200TDW24-200-54	22' 5"	19' 5"	17' 9"	15' 10"	22' 5"	19' 5"	17' 9"	15' 10"
1200TDW24-200-68	26' 4"	22' 10"	20' 10"	18' 8"	26' 2"	22' 10"	20' 10"	18' 8"
1200TDW24-200-97	31' 4"	28' 5"	26' 5"	23' 7"	29' 2"	26' 6"	25' 0"	23' 2"
1400TDW24-200-68	26' 11"	23' 4"	21' 3"	19' 1"	26' 11"	23' 4"	21' 3"	19' 1"
1400TDW24-200-97	33' 8"	29' 2"	26' 7"	23' 10"	33' 3"	29' 2"	26' 7"	23' 10"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 40 psf**

Product Code	40 psf Dead Load and 40 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	12' 3"	10' 7"	9' 8"	8' 8"	12' 3"	10' 7"	9' 8"	8' 8"
725TDJ24-175-54	15' 10"	14' 1"	12' 10"	11' 6"	15' 10"	14' 1"	12' 10"	11' 6"
725TDJ24-175-68	17' 0"	15' 5"	14' 6"	13' 4"	17' 0"	15' 5"	14' 6"	13' 4"
725TDJ24-175-97	18' 10"	17' 1"	16' 1"	15' 0"	18' 10"	17' 1"	16' 1"	15' 0"
800TDJ24-175-43	12' 9"	11' 1"	10' 1"	9' 0"	12' 9"	11' 1"	10' 1"	9' 0"
800TDJ24-175-54	17' 1"	14' 9"	13' 6"	12' 1"	17' 1"	14' 9"	13' 6"	12' 1"
800TDJ24-175-68	18' 5"	16' 8"	15' 8"	14' 0"	18' 5"	16' 8"	15' 8"	14' 0"
800TDJ24-175-97	20' 5"	18' 7"	17' 6"	16' 3"	20' 5"	18' 7"	17' 6"	16' 3"
925TDJ24-175-43	13' 5"	11' 8"	10' 7"	9' 6"	13' 5"	11' 8"	10' 7"	9' 6"
925TDJ24-175-54	17' 9"	15' 5"	14' 1"	12' 7"	17' 9"	15' 5"	14' 1"	12' 7"
925TDJ24-175-68	20' 8"	17' 11"	16' 4"	14' 7"	20' 8"	17' 11"	16' 4"	14' 7"
925TDJ24-175-97	23' 0"	20' 11"	19' 8"	18' 3"	23' 0"	20' 11"	19' 8"	18' 3"
1125TDJ24-175-54	19' 1"	16' 6"	15' 1"	13' 6"	19' 1"	16' 6"	15' 1"	13' 6"
1125TDJ24-175-68	22' 4"	19' 4"	17' 8"	15' 9"	22' 4"	19' 4"	17' 8"	15' 9"
1125TDJ24-175-97	27' 1"	24' 2"	22' 1"	19' 9"	27' 1"	24' 2"	22' 1"	19' 9"
1000TDW24-200-54	19' 3"	16' 8"	15' 3"	13' 7"	19' 3"	16' 8"	15' 3"	13' 7"
1000TDW24-200-68	22' 6"	19' 6"	17' 10"	15' 11"	22' 6"	19' 6"	17' 10"	15' 11"
1000TDW24-200-97	25' 1"	22' 10"	21' 6"	19' 11"	25' 1"	22' 10"	21' 6"	19' 11"
1200TDW24-200-54	20' 3"	17' 6"	16' 0"	14' 4"	20' 3"	17' 6"	16' 0"	14' 4"
1200TDW24-200-68	23' 9"	20' 7"	18' 9"	16' 9"	23' 9"	20' 7"	18' 9"	16' 9"
1200TDW24-200-97	29' 2"	26' 1"	23' 9"	21' 3"	29' 2"	26' 1"	23' 9"	21' 3"
1400TDW24-200-68	24' 3"	21' 0"	19' 2"	17' 2"	24' 3"	21' 0"	19' 2"	17' 2"
1400TDW24-200-97	30' 4"	26' 3"	24' 0"	21' 5"	30' 4"	26' 3"	24' 0"	21' 5"

**Live Load = 50 psf**

Product Code	10 psf Dead Load and 50 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	14' 1"	12' 3"	11' 2"	10' 0"	13' 8"	12' 3"	11' 2"	10' 0"
725TDJ24-175-54	16' 2"	14' 8"	13' 10"	12' 10"	14' 8"	13' 4"	12' 7"	11' 8"
725TDJ24-175-68	17' 4"	15' 9"	14' 10"	13' 9"	15' 9"	14' 4"	13' 6"	12' 6"
725TDJ24-175-97	19' 3"	17' 6"	16' 6"	15' 3"	17' 6"	15' 11"	15' 0"	13' 11"
800TDJ24-175-43	14' 9"	12' 9"	11' 8"	10' 5"	14' 9"	12' 9"	11' 8"	10' 5"
800TDJ24-175-54	17' 6"	15' 11"	14' 11"	13' 11"	15' 11"	14' 5"	13' 7"	12' 7"
800TDJ24-175-68	18' 9"	17' 1"	16' 1"	14' 11"	17' 1"	15' 6"	14' 7"	13' 6"
800TDJ24-175-97	20' 10"	19' 0"	17' 10"	16' 7"	19' 0"	17' 3"	16' 3"	15' 1"
925TDJ24-175-43	15' 6"	13' 5"	12' 3"	11' 0"	15' 6"	13' 5"	12' 3"	11' 0"
925TDJ24-175-54	19' 8"	17' 9"	16' 3"	14' 6"	17' 11"	16' 3"	15' 3"	14' 2"
925TDJ24-175-68	21' 2"	19' 2"	18' 1"	16' 9"	19' 2"	17' 5"	16' 5"	15' 3"
925TDJ24-175-97	23' 6"	21' 4"	20' 1"	18' 8"	21' 4"	19' 5"	18' 3"	17' 0"
1125TDJ24-175-54	22' 1"	19' 1"	17' 5"	15' 7"	21' 0"	19' 1"	17' 5"	15' 7"
1125TDJ24-175-68	24' 10"	22' 4"	20' 5"	18' 3"	22' 7"	20' 6"	19' 4"	17' 11"
1125TDJ24-175-97	27' 8"	25' 2"	23' 8"	22' 0"	25' 2"	22' 10"	21' 6"	20' 0"
1000TDW24-200-54	21' 5"	19' 3"	17' 7"	15' 9"	19' 6"	17' 8"	16' 8"	15' 6"
1000TDW24-200-68	23' 0"	20' 11"	19' 8"	18' 3"	20' 11"	19' 0"	17' 11"	16' 7"
1000TDW24-200-97	25' 8"	23' 4"	21' 11"	20' 4"	23' 4"	21' 2"	19' 11"	18' 6"
1200TDW24-200-54	23' 4"	20' 3"	18' 6"	16' 6"	22' 7"	20' 3"	18' 6"	16' 6"
1200TDW24-200-68	26' 9"	23' 9"	21' 8"	19' 5"	24' 4"	22' 1"	20' 9"	19' 4"
1200TDW24-200-97	29' 10"	27' 1"	25' 6"	23' 8"	27' 1"	24' 8"	23' 2"	21' 6"
1400TDW24-200-68	28' 0"	24' 3"	22' 2"	19' 10"	27' 8"	24' 3"	22' 2"	19' 10"
1400TDW24-200-97	34' 0"	30' 4"	27' 8"	24' 9"	30' 10"	28' 0"	26' 5"	24' 6"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 50 psf**

Product Code	12 psf Dead Load and 50 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	13' 11"	12' 0"	11' 0"	9' 10"	13' 8"	12' 0"	11' 0"	9' 10"
725TDJ24-175-54	16' 2"	14' 8"	13' 10"	12' 10"	14' 8"	13' 4"	12' 7"	11' 8"
725TDJ24-175-68	17' 4"	15' 9"	14' 10"	13' 9"	15' 9"	14' 4"	13' 6"	12' 6"
725TDJ24-175-97	19' 3"	17' 6"	16' 6"	15' 3"	17' 6"	15' 11"	15' 0"	13' 11"
800TDJ24-175-43	14' 6"	12' 7"	11' 6"	10' 3"	14' 6"	12' 7"	11' 6"	10' 3"
800TDJ24-175-54	17' 6"	15' 11"	14' 11"	13' 8"	15' 11"	14' 5"	13' 7"	12' 7"
800TDJ24-175-68	18' 9"	17' 1"	16' 1"	14' 11"	17' 1"	15' 6"	14' 7"	13' 6"
800TDJ24-175-97	20' 10"	19' 0"	17' 10"	16' 7"	19' 0"	17' 3"	16' 3"	15' 1"
925TDJ24-175-43	15' 3"	13' 3"	12' 1"	10' 9"	15' 3"	13' 3"	12' 1"	10' 9"
925TDJ24-175-54	19' 8"	17' 6"	16' 0"	14' 3"	17' 11"	16' 3"	15' 3"	14' 2"
925TDJ24-175-68	21' 2"	19' 2"	18' 1"	16' 7"	19' 2"	17' 5"	16' 5"	15' 3"
925TDJ24-175-97	23' 6"	21' 4"	20' 1"	18' 8"	21' 4"	19' 5"	18' 3"	17' 0"
1125TDJ24-175-54	21' 8"	18' 9"	17' 2"	15' 4"	21' 0"	18' 9"	17' 2"	15' 4"
1125TDJ24-175-68	24' 10"	22' 0"	20' 1"	17' 11"	22' 7"	20' 6"	19' 4"	17' 11"
1125TDJ24-175-97	27' 8"	25' 2"	23' 8"	22' 0"	25' 2"	22' 10"	21' 6"	20' 0"
1000TDW24-200-54	21' 5"	18' 11"	17' 4"	15' 6"	19' 6"	17' 8"	16' 8"	15' 6"
1000TDW24-200-68	23' 0"	20' 11"	19' 8"	18' 1"	20' 11"	19' 0"	17' 11"	16' 7"
1000TDW24-200-97	25' 8"	23' 4"	21' 11"	20' 4"	23' 4"	21' 2"	19' 11"	18' 6"
1200TDW24-200-54	23' 0"	19' 11"	18' 2"	16' 3"	22' 7"	19' 11"	18' 2"	16' 3"
1200TDW24-200-68	26' 9"	23' 4"	21' 4"	19' 1"	24' 4"	22' 1"	20' 9"	19' 1"
1200TDW24-200-97	29' 10"	27' 1"	25' 6"	23' 8"	27' 1"	24' 8"	23' 2"	21' 6"
1400TDW24-200-68	27' 7"	23' 11"	21' 10"	19' 6"	27' 7"	23' 11"	21' 10"	19' 6"
1400TDW24-200-97	34' 0"	29' 10"	27' 3"	24' 4"	30' 10"	28' 0"	26' 5"	24' 4"

**Live Load = 50 psf**

Product Code	15 psf Dead Load and 50 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	13' 7"	11' 9"	10' 9"	9' 7"	13' 7"	11' 9"	10' 9"	9' 7"
725TDJ24-175-54	16' 2"	14' 8"	13' 10"	12' 9"	14' 8"	13' 4"	12' 7"	11' 8"
725TDJ24-175-68	17' 4"	15' 9"	14' 10"	13' 9"	15' 9"	14' 4"	13' 6"	12' 6"
725TDJ24-175-97	19' 3"	17' 6"	16' 6"	15' 3"	17' 6"	15' 11"	15' 0"	13' 11"
800TDJ24-175-43	14' 2"	12' 3"	11' 2"	10' 0"	14' 2"	12' 3"	11' 2"	10' 0"
800TDJ24-175-54	17' 6"	15' 11"	14' 11"	13' 4"	15' 11"	14' 5"	13' 7"	12' 7"
800TDJ24-175-68	18' 9"	17' 1"	16' 1"	14' 11"	17' 1"	15' 6"	14' 7"	13' 6"
800TDJ24-175-97	20' 10"	19' 0"	17' 10"	16' 7"	19' 0"	17' 3"	16' 3"	15' 1"
925TDJ24-175-43	14' 11"	12' 11"	11' 9"	10' 6"	14' 11"	12' 11"	11' 9"	10' 6"
925TDJ24-175-54	19' 8"	17' 1"	15' 7"	13' 11"	17' 11"	16' 3"	15' 3"	13' 11"
925TDJ24-175-68	21' 2"	19' 2"	18' 1"	16' 3"	19' 2"	17' 5"	16' 5"	15' 3"
925TDJ24-175-97	23' 6"	21' 4"	20' 1"	18' 8"	21' 4"	19' 5"	18' 3"	17' 0"
1125TDJ24-175-54	21' 2"	18' 4"	16' 9"	15' 0"	21' 0"	18' 4"	16' 9"	15' 0"
1125TDJ24-175-68	24' 9"	21' 5"	19' 7"	17' 6"	22' 7"	20' 6"	19' 4"	17' 6"
1125TDJ24-175-97	27' 8"	25' 2"	23' 8"	21' 11"	25' 2"	22' 10"	21' 6"	20' 0"
1000TDW24-200-54	21' 4"	18' 6"	16' 11"	15' 1"	19' 6"	17' 8"	16' 8"	15' 1"
1000TDW24-200-68	23' 0"	20' 11"	19' 8"	17' 8"	20' 11"	19' 0"	17' 11"	16' 7"
1000TDW24-200-97	25' 8"	23' 4"	21' 11"	20' 4"	23' 4"	21' 2"	19' 11"	18' 6"
1200TDW24-200-54	22' 5"	19' 5"	17' 9"	15' 10"	22' 5"	19' 5"	17' 9"	15' 10"
1200TDW24-200-68	26' 4"	22' 10"	20' 10"	18' 8"	24' 4"	22' 1"	20' 9"	18' 8"
1200TDW24-200-97	29' 10"	27' 1"	25' 6"	23' 7"	27' 1"	24' 8"	23' 2"	21' 6"
1400TDW24-200-68	26' 11"	23' 4"	21' 3"	19' 1"	26' 11"	23' 4"	21' 3"	19' 1"
1400TDW24-200-97	33' 8"	29' 2"	26' 7"	23' 10"	30' 10"	28' 0"	26' 5"	23' 10"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 50 psf**

Product Code	25 psf Dead Load and 50 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	12' 8"	10' 11"	10' 0"	8' 11"	12' 8"	10' 11"	10' 0"	8' 11"
725TDJ24-175-54	16' 2"	14' 6"	13' 3"	11' 10"	14' 8"	13' 4"	12' 7"	11' 8"
725TDJ24-175-68	17' 4"	15' 9"	14' 10"	13' 9"	15' 9"	14' 4"	13' 6"	12' 6"
725TDJ24-175-97	19' 3"	17' 6"	16' 6"	15' 3"	17' 6"	15' 11"	15' 0"	13' 11"
800TDJ24-175-43	13' 2"	11' 5"	10' 5"	9' 4"	13' 2"	11' 5"	10' 5"	9' 4"
800TDJ24-175-54	17' 6"	15' 3"	13' 11"	12' 5"	15' 11"	14' 5"	13' 7"	12' 5"
800TDJ24-175-68	18' 9"	17' 1"	16' 1"	14' 5"	17' 1"	15' 6"	14' 7"	13' 6"
800TDJ24-175-97	20' 10"	19' 0"	17' 10"	16' 7"	19' 0"	17' 3"	16' 3"	15' 1"
925TDJ24-175-43	13' 10"	12' 0"	11' 0"	9' 10"	13' 10"	12' 0"	11' 0"	9' 10"
925TDJ24-175-54	18' 4"	15' 11"	14' 6"	13' 0"	17' 11"	15' 11"	14' 6"	13' 0"
925TDJ24-175-68	21' 2"	18' 6"	16' 11"	15' 1"	19' 2"	17' 5"	16' 5"	15' 1"
925TDJ24-175-97	23' 6"	21' 4"	20' 1"	18' 8"	21' 4"	19' 5"	18' 3"	17' 0"
1125TDJ24-175-54	19' 9"	17' 1"	15' 7"	13' 11"	19' 9"	17' 1"	15' 7"	13' 11"
1125TDJ24-175-68	23' 1"	20' 0"	18' 3"	16' 4"	22' 7"	20' 0"	18' 3"	16' 4"
1125TDJ24-175-97	27' 8"	24' 11"	22' 9"	20' 4"	25' 2"	22' 10"	21' 6"	20' 0"
1000TDW24-200-54	19' 11"	17' 3"	15' 9"	14' 1"	19' 6"	17' 3"	15' 9"	14' 1"
1000TDW24-200-68	23' 0"	20' 2"	18' 5"	16' 5"	20' 11"	19' 0"	17' 11"	16' 5"
1000TDW24-200-97	25' 8"	23' 4"	21' 11"	20' 4"	23' 4"	21' 2"	19' 11"	18' 6"
1200TDW24-200-54	20' 11"	18' 1"	16' 6"	14' 9"	20' 11"	18' 1"	16' 6"	14' 9"
1200TDW24-200-68	24' 6"	21' 3"	19' 5"	17' 4"	24' 4"	21' 3"	19' 5"	17' 4"
1200TDW24-200-97	29' 10"	26' 11"	24' 7"	22' 0"	27' 1"	24' 8"	23' 2"	21' 6"
1400TDW24-200-68	25' 1"	21' 9"	19' 10"	17' 9"	25' 1"	21' 9"	19' 10"	17' 9"
1400TDW24-200-97	31' 4"	27' 2"	24' 9"	22' 2"	30' 10"	27' 2"	24' 9"	22' 2"

**Live Load = 50 psf**

Product Code	40 psf Dead Load and 50 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	11' 6"	10' 0"	9' 1"	8' 2"	11' 6"	10' 0"	9' 1"	8' 2"
725TDJ24-175-54	15' 2"	13' 3"	12' 1"	10' 10"	14' 8"	13' 3"	12' 1"	10' 10"
725TDJ24-175-68	16' 4"	14' 10"	13' 11"	12' 7"	15' 9"	14' 4"	13' 6"	12' 6"
725TDJ24-175-97	18' 1"	16' 6"	15' 6"	14' 5"	17' 6"	15' 11"	15' 0"	13' 11"
800TDJ24-175-43	12' 0"	10' 5"	9' 6"	8' 6"	12' 0"	10' 5"	9' 6"	8' 6"
800TDJ24-175-54	16' 1"	13' 11"	12' 8"	11' 4"	15' 11"	13' 11"	12' 8"	11' 4"
800TDJ24-175-68	17' 8"	16' 1"	14' 9"	13' 2"	17' 1"	15' 6"	14' 7"	13' 2"
800TDJ24-175-97	19' 8"	17' 10"	16' 9"	15' 7"	19' 0"	17' 3"	16' 3"	15' 1"
925TDJ24-175-43	12' 8"	11' 0"	10' 0"	8' 11"	12' 8"	11' 0"	10' 0"	8' 11"
925TDJ24-175-54	16' 9"	14' 6"	13' 3"	11' 10"	16' 9"	14' 6"	13' 3"	11' 10"
925TDJ24-175-68	19' 6"	16' 11"	15' 5"	13' 9"	19' 2"	16' 11"	15' 5"	13' 9"
925TDJ24-175-97	22' 2"	20' 1"	18' 11"	17' 3"	21' 4"	19' 5"	18' 3"	17' 0"
1125TDJ24-175-54	18' 0"	15' 7"	14' 3"	12' 9"	18' 0"	15' 7"	14' 3"	12' 9"
1125TDJ24-175-68	21' 1"	18' 3"	16' 8"	14' 11"	21' 1"	18' 3"	16' 8"	14' 11"
1125TDJ24-175-97	26' 1"	22' 9"	20' 9"	18' 7"	25' 2"	22' 9"	20' 9"	18' 7"
1000TDW24-200-54	18' 2"	15' 9"	14' 4"	12' 10"	18' 2"	15' 9"	14' 4"	12' 10"
1000TDW24-200-68	21' 3"	18' 5"	16' 10"	15' 0"	20' 11"	18' 5"	16' 10"	15' 0"
1000TDW24-200-97	24' 2"	21' 11"	20' 8"	19' 0"	23' 4"	21' 2"	19' 11"	18' 6"
1200TDW24-200-54	19' 1"	16' 6"	15' 1"	13' 6"	19' 1"	16' 6"	15' 1"	13' 6"
1200TDW24-200-68	22' 5"	19' 5"	17' 8"	15' 10"	22' 5"	19' 5"	17' 8"	15' 10"
1200TDW24-200-97	28' 1"	24' 7"	22' 5"	20' 1"	27' 1"	24' 7"	22' 5"	20' 1"
1400TDW24-200-68	22' 11"	19' 10"	18' 1"	16' 2"	22' 11"	19' 10"	18' 1"	16' 2"
1400TDW24-200-97	28' 7"	24' 9"	22' 7"	20' 3"	28' 7"	24' 9"	22' 7"	20' 3"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 80 psf**

Product Code	10 psf Dead Load and 80 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	11' 6"	10' 0"	9' 1"	8' 2"	11' 6"	10' 0"	9' 1"	8' 2"
725TDJ24-175-54	13' 10"	12' 7"	11' 10"	10' 10"	12' 7"	11' 5"	10' 9"	10' 0"
725TDJ24-175-68	14' 10"	13' 6"	12' 8"	11' 9"	13' 6"	12' 3"	11' 6"	10' 8"
725TDJ24-175-97	16' 6"	15' 0"	14' 1"	13' 1"	15' 0"	13' 7"	12' 9"	11' 10"
800TDJ24-175-43	12' 0"	10' 5"	9' 6"	8' 6"	12' 0"	10' 5"	9' 6"	8' 6"
800TDJ24-175-54	14' 11"	13' 7"	12' 8"	11' 4"	13' 7"	12' 4"	11' 7"	10' 9"
800TDJ24-175-68	16' 1"	14' 7"	13' 9"	12' 9"	14' 7"	13' 3"	12' 6"	11' 7"
800TDJ24-175-97	17' 10"	16' 3"	15' 3"	14' 2"	16' 3"	14' 9"	13' 10"	12' 10"
925TDJ24-175-43	12' 8"	11' 0"	10' 0"	8' 11"	12' 8"	11' 0"	10' 0"	8' 11"
925TDJ24-175-54	16' 9"	14' 6"	13' 3"	11' 10"	15' 3"	13' 11"	13' 1"	11' 10"
925TDJ24-175-68	18' 1"	16' 5"	15' 5"	13' 9"	16' 5"	14' 11"	14' 0"	13' 0"
925TDJ24-175-97	20' 1"	18' 3"	17' 2"	16' 0"	18' 3"	16' 7"	15' 7"	14' 6"
1125TDJ24-175-54	18' 0"	15' 7"	14' 3"	12' 9"	18' 0"	15' 7"	14' 3"	12' 9"
1125TDJ24-175-68	21' 1"	18' 3"	16' 8"	14' 11"	19' 4"	17' 7"	16' 6"	14' 11"
1125TDJ24-175-97	23' 8"	21' 6"	20' 3"	18' 7"	21' 6"	19' 6"	18' 5"	17' 1"
1000TDW24-200-54	18' 2"	15' 9"	14' 4"	12' 10"	16' 8"	15' 2"	14' 3"	12' 10"
1000TDW24-200-68	19' 8"	17' 11"	16' 10"	15' 0"	17' 11"	16' 3"	15' 4"	14' 2"
1000TDW24-200-97	21' 11"	19' 11"	18' 9"	17' 5"	19' 11"	18' 1"	17' 0"	15' 10"
1200TDW24-200-54	19' 1"	16' 6"	15' 1"	13' 6"	19' 1"	16' 6"	15' 1"	13' 6"
1200TDW24-200-68	22' 5"	19' 5"	17' 8"	15' 10"	20' 9"	18' 11"	17' 8"	15' 10"
1200TDW24-200-97	25' 6"	23' 2"	21' 10"	20' 1"	23' 2"	21' 1"	19' 10"	18' 5"
1400TDW24-200-68	22' 11"	19' 10"	18' 1"	16' 2"	22' 11"	19' 10"	18' 1"	16' 2"
1400TDW24-200-97	28' 7"	24' 9"	22' 7"	20' 3"	26' 5"	24' 0"	22' 7"	20' 3"

**Live Load = 80 psf**

Product Code	12 psf Dead Load and 80 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	11' 5"	9' 11"	9' 0"	8' 1"	11' 5"	9' 11"	9' 0"	8' 1"
725TDJ24-175-54	13' 10"	12' 7"	11' 10"	10' 9"	12' 7"	11' 5"	10' 9"	10' 0"
725TDJ24-175-68	14' 10"	13' 6"	12' 8"	11' 9"	13' 6"	12' 3"	11' 6"	10' 8"
725TDJ24-175-97	16' 6"	15' 0"	14' 1"	13' 1"	15' 0"	13' 7"	12' 9"	11' 10"
800TDJ24-175-43	11' 11"	10' 4"	9' 5"	8' 5"	11' 11"	10' 4"	9' 5"	8' 5"
800TDJ24-175-54	14' 11"	13' 7"	12' 7"	11' 3"	13' 7"	12' 4"	11' 7"	10' 9"
800TDJ24-175-68	16' 1"	14' 7"	13' 9"	12' 9"	14' 7"	13' 3"	12' 6"	11' 7"
800TDJ24-175-97	17' 10"	16' 3"	15' 3"	14' 2"	16' 3"	14' 9"	13' 10"	12' 10"
925TDJ24-175-43	12' 6"	10' 10"	9' 11"	8' 10"	12' 6"	10' 10"	9' 11"	8' 10"
925TDJ24-175-54	16' 7"	14' 4"	13' 1"	11' 9"	15' 3"	13' 11"	13' 1"	11' 9"
925TDJ24-175-68	18' 1"	16' 5"	15' 3"	13' 8"	16' 5"	14' 11"	14' 0"	13' 0"
925TDJ24-175-97	20' 1"	18' 3"	17' 2"	16' 0"	18' 3"	16' 7"	15' 7"	14' 6"
1125TDJ24-175-54	17' 10"	15' 5"	14' 1"	12' 7"	17' 10"	15' 5"	14' 1"	12' 7"
1125TDJ24-175-68	20' 10"	18' 0"	16' 6"	14' 9"	19' 4"	17' 7"	16' 6"	14' 9"
1125TDJ24-175-97	23' 8"	21' 6"	20' 3"	18' 5"	21' 6"	19' 6"	18' 5"	17' 1"
1000TDW24-200-54	18' 0"	15' 7"	14' 2"	12' 8"	16' 8"	15' 2"	14' 2"	12' 8"
1000TDW24-200-68	19' 8"	17' 11"	16' 7"	14' 10"	17' 11"	16' 3"	15' 4"	14' 2"
1000TDW24-200-97	21' 11"	19' 11"	18' 9"	17' 5"	19' 11"	18' 1"	17' 0"	15' 10"
1200TDW24-200-54	18' 10"	16' 4"	14' 11"	13' 4"	18' 10"	16' 4"	14' 11"	13' 4"
1200TDW24-200-68	22' 2"	19' 2"	17' 6"	15' 8"	20' 9"	18' 11"	17' 6"	15' 8"
1200TDW24-200-97	25' 6"	23' 2"	21' 10"	19' 10"	23' 2"	21' 1"	19' 10"	18' 5"
1400TDW24-200-68	22' 8"	19' 7"	17' 11"	16' 0"	22' 8"	19' 7"	17' 11"	16' 0"
1400TDW24-200-97	28' 3"	24' 6"	22' 4"	20' 0"	26' 5"	24' 0"	22' 4"	20' 0"

\*See span table notes on page 10.



**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 80 psf**

Product Code	15 psf Dead Load and 80 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	11' 3"	9' 9"	8' 10"	7' 11"	11' 3"	9' 9"	8' 10"	7' 11"
725TDJ24-175-54	13' 10"	12' 7"	11' 9"	10' 7"	12' 7"	11' 5"	10' 9"	10' 0"
725TDJ24-175-68	14' 10"	13' 6"	12' 8"	11' 9"	13' 6"	12' 3"	11' 6"	10' 8"
725TDJ24-175-97	16' 6"	15' 0"	14' 1"	13' 1"	15' 0"	13' 7"	12' 9"	11' 10"
800TDJ24-175-43	11' 9"	10' 2"	9' 3"	8' 3"	11' 9"	10' 2"	9' 3"	8' 3"
800TDJ24-175-54	14' 11"	13' 7"	12' 4"	11' 1"	13' 7"	12' 4"	11' 7"	10' 9"
800TDJ24-175-68	16' 1"	14' 7"	13' 9"	12' 9"	14' 7"	13' 3"	12' 6"	11' 7"
800TDJ24-175-97	17' 10"	16' 3"	15' 3"	14' 2"	16' 3"	14' 9"	13' 10"	12' 10"
925TDJ24-175-43	12' 4"	10' 8"	9' 9"	8' 7"	12' 4"	10' 8"	9' 9"	8' 7"
925TDJ24-175-54	16' 4"	14' 2"	12' 11"	11' 6"	15' 3"	13' 11"	12' 11"	11' 6"
925TDJ24-175-68	18' 1"	16' 5"	15' 0"	13' 5"	16' 5"	14' 11"	14' 0"	13' 0"
925TDJ24-175-97	20' 1"	18' 3"	17' 2"	16' 0"	18' 3"	16' 7"	15' 7"	14' 6"
1125TDJ24-175-54	17' 6"	15' 2"	13' 10"	12' 5"	17' 6"	15' 2"	13' 10"	12' 5"
1125TDJ24-175-68	20' 6"	17' 9"	16' 2"	14' 6"	19' 4"	17' 7"	16' 2"	14' 6"
1125TDJ24-175-97	23' 8"	21' 6"	20' 3"	18' 1"	21' 6"	19' 6"	18' 5"	17' 1"
1000TDW24-200-54	17' 8"	15' 4"	14' 0"	12' 6"	16' 8"	15' 2"	14' 0"	12' 6"
1000TDW24-200-68	19' 8"	17' 11"	16' 4"	14' 7"	17' 11"	16' 3"	15' 4"	14' 2"
1000TDW24-200-97	21' 11"	19' 11"	18' 9"	17' 5"	19' 11"	18' 1"	17' 0"	15' 10"
1200TDW24-200-54	18' 7"	16' 1"	14' 8"	13' 1"	18' 7"	16' 1"	14' 8"	13' 1"
1200TDW24-200-68	21' 9"	18' 10"	17' 3"	15' 5"	20' 9"	18' 10"	17' 3"	15' 5"
1200TDW24-200-97	25' 6"	23' 2"	21' 10"	19' 6"	23' 2"	21' 1"	19' 10"	18' 5"
1400TDW24-200-68	22' 3"	19' 3"	17' 7"	15' 9"	22' 3"	19' 3"	17' 7"	15' 9"
1400TDW24-200-97	27' 10"	24' 1"	22' 0"	19' 8"	26' 5"	24' 0"	22' 0"	19' 8"

**Live Load = 80 psf**

Product Code	25 psf Dead Load and 80 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	10' 8"	9' 3"	8' 5"	7' 7"	10' 8"	9' 3"	8' 5"	7' 7"
725TDJ24-175-54	13' 10"	12' 3"	11' 3"	10' 0"	12' 7"	11' 5"	10' 9"	10' 0"
725TDJ24-175-68	14' 10"	13' 6"	12' 8"	11' 8"	13' 6"	12' 3"	11' 6"	10' 8"
725TDJ24-175-97	16' 6"	15' 0"	14' 1"	13' 1"	15' 0"	13' 7"	12' 9"	11' 10"
800TDJ24-175-43	11' 2"	9' 8"	8' 10"	7' 11"	11' 2"	9' 8"	8' 10"	7' 11"
800TDJ24-175-54	14' 11"	12' 11"	11' 9"	10' 6"	13' 7"	12' 4"	11' 7"	10' 6"
800TDJ24-175-68	16' 1"	14' 7"	13' 8"	12' 2"	14' 7"	13' 3"	12' 6"	11' 7"
800TDJ24-175-97	17' 10"	16' 3"	15' 3"	14' 2"	16' 3"	14' 9"	13' 10"	12' 10"
925TDJ24-175-43	11' 9"	10' 2"	9' 3"	7' 9"	11' 9"	10' 2"	9' 3"	7' 9"
925TDJ24-175-54	15' 6"	13' 5"	12' 3"	11' 0"	15' 3"	13' 5"	12' 3"	11' 0"
925TDJ24-175-68	18' 1"	15' 8"	14' 3"	12' 9"	16' 5"	14' 11"	14' 0"	12' 9"
925TDJ24-175-97	20' 1"	18' 3"	17' 2"	15' 11"	18' 3"	16' 7"	15' 7"	14' 6"
1125TDJ24-175-54	16' 8"	14' 5"	13' 2"	11' 9"	16' 8"	14' 5"	13' 2"	11' 9"
1125TDJ24-175-68	19' 6"	16' 11"	15' 5"	13' 9"	19' 4"	16' 11"	15' 5"	13' 9"
1125TDJ24-175-97	23' 8"	21' 1"	19' 3"	17' 3"	21' 6"	19' 6"	18' 5"	17' 1"
1000TDW24-200-54	16' 10"	14' 7"	13' 3"	11' 11"	16' 8"	14' 7"	13' 3"	11' 11"
1000TDW24-200-68	19' 8"	17' 0"	15' 7"	13' 11"	17' 11"	16' 3"	15' 4"	13' 11"
1000TDW24-200-97	21' 11"	19' 11"	18' 9"	17' 5"	19' 11"	18' 1"	17' 0"	15' 10"
1200TDW24-200-54	17' 8"	15' 4"	14' 0"	11' 10"	17' 8"	15' 4"	14' 0"	11' 10"
1200TDW24-200-68	20' 9"	17' 11"	16' 5"	14' 8"	20' 9"	17' 11"	16' 5"	14' 8"
1200TDW24-200-97	25' 6"	22' 9"	20' 9"	18' 7"	23' 2"	21' 1"	19' 10"	18' 5"
1400TDW24-200-68	21' 2"	18' 4"	16' 9"	15' 0"	21' 2"	18' 4"	16' 9"	15' 0"
1400TDW24-200-97	26' 6"	22' 11"	20' 11"	18' 9"	26' 5"	22' 11"	20' 11"	18' 9"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 80 psf**

Product Code	40 psf Dead Load and 80 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	10' 0"	8' 8"	7' 11"	7' 1"	10' 0"	8' 8"	7' 11"	7' 1"
725TDJ24-175-54	13' 3"	11' 6"	10' 6"	9' 5"	12' 7"	11' 5"	10' 6"	9' 5"
725TDJ24-175-68	14' 10"	13' 4"	12' 2"	10' 10"	13' 6"	12' 3"	11' 6"	10' 8"
725TDJ24-175-97	16' 6"	15' 0"	14' 1"	13' 1"	15' 0"	13' 7"	12' 9"	11' 10"
800TDJ24-175-43	10' 5"	9' 0"	8' 3"	7' 4"	10' 5"	9' 0"	8' 3"	7' 4"
800TDJ24-175-54	13' 11"	12' 1"	11' 0"	9' 10"	13' 7"	12' 1"	11' 0"	9' 10"
800TDJ24-175-68	16' 1"	14' 0"	12' 9"	11' 5"	14' 7"	13' 3"	12' 6"	11' 5"
800TDJ24-175-97	17' 10"	16' 3"	15' 3"	14' 2"	16' 3"	14' 9"	13' 10"	12' 10"
925TDJ24-175-43	11' 0"	9' 6"	8' 6"	6' 10"	11' 0"	9' 6"	8' 6"	6' 10"
925TDJ24-175-54	14' 6"	12' 7"	11' 6"	10' 3"	14' 6"	12' 7"	11' 6"	10' 3"
925TDJ24-175-68	16' 11"	14' 7"	13' 4"	11' 11"	16' 5"	14' 7"	13' 4"	11' 11"
925TDJ24-175-97	20' 1"	18' 3"	16' 8"	14' 11"	18' 3"	16' 7"	15' 7"	14' 6"
1125TDJ24-175-54	15' 7"	13' 6"	12' 4"	11' 0"	15' 7"	13' 6"	12' 4"	11' 0"
1125TDJ24-175-68	18' 3"	15' 9"	14' 5"	12' 11"	18' 3"	15' 9"	14' 5"	12' 11"
1125TDJ24-175-97	22' 9"	19' 9"	18' 0"	16' 1"	21' 6"	19' 6"	18' 0"	16' 1"
1000TDW24-200-54	15' 9"	13' 7"	12' 5"	11' 1"	15' 9"	13' 7"	12' 5"	11' 1"
1000TDW24-200-68	18' 5"	15' 11"	14' 7"	13' 0"	17' 11"	15' 11"	14' 7"	13' 0"
1000TDW24-200-97	21' 11"	19' 11"	18' 5"	16' 5"	19' 11"	18' 1"	17' 0"	15' 10"
1200TDW24-200-54	16' 6"	14' 4"	12' 11"	10' 4"	16' 6"	14' 4"	12' 11"	10' 4"
1200TDW24-200-68	19' 5"	16' 9"	15' 4"	13' 9"	19' 5"	16' 9"	15' 4"	13' 9"
1200TDW24-200-97	24' 7"	21' 3"	19' 5"	17' 4"	23' 2"	21' 1"	19' 5"	17' 4"
1400TDW24-200-68	19' 10"	17' 2"	15' 8"	14' 0"	19' 10"	17' 2"	15' 8"	14' 0"
1400TDW24-200-97	24' 9"	21' 5"	19' 7"	17' 6"	24' 9"	21' 5"	19' 7"	17' 6"

**Live Load = 100 psf**

Product Code	10 psf Dead Load and 100 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	10' 5"	9' 0"	8' 3"	7' 4"	10' 5"	9' 0"	8' 3"	7' 4"
725TDJ24-175-54	12' 10"	11' 8"	10' 11"	9' 10"	11' 8"	10' 7"	10' 0"	9' 3"
725TDJ24-175-68	13' 9"	12' 6"	11' 9"	10' 11"	12' 6"	11' 4"	10' 8"	9' 11"
725TDJ24-175-97	15' 3"	13' 11"	13' 1"	12' 2"	13' 11"	12' 7"	11' 10"	11' 0"
800TDJ24-175-43	10' 11"	9' 5"	8' 7"	7' 8"	10' 11"	9' 5"	8' 7"	7' 8"
800TDJ24-175-54	13' 11"	12' 7"	11' 6"	10' 3"	12' 7"	11' 6"	10' 9"	10' 0"
800TDJ24-175-68	14' 11"	13' 6"	12' 9"	11' 10"	13' 6"	12' 4"	11' 7"	10' 9"
800TDJ24-175-97	16' 7"	15' 1"	14' 2"	13' 2"	15' 1"	13' 8"	12' 10"	11' 11"
925TDJ24-175-43	11' 5"	9' 11"	9' 1"	7' 5"	11' 5"	9' 11"	9' 1"	7' 5"
925TDJ24-175-54	15' 2"	13' 2"	12' 0"	10' 9"	14' 2"	12' 11"	12' 0"	10' 9"
925TDJ24-175-68	16' 9"	15' 3"	13' 11"	12' 6"	15' 3"	13' 10"	13' 0"	12' 1"
925TDJ24-175-97	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
1125TDJ24-175-54	16' 3"	14' 1"	12' 10"	11' 6"	16' 3"	14' 1"	12' 10"	11' 6"
1125TDJ24-175-68	19' 0"	16' 6"	15' 1"	13' 6"	17' 11"	16' 3"	15' 1"	13' 6"
1125TDJ24-175-97	22' 0"	20' 0"	18' 9"	16' 10"	20' 0"	18' 2"	17' 1"	15' 10"
1000TDW24-200-54	16' 5"	14' 3"	13' 0"	11' 7"	15' 6"	14' 1"	13' 0"	11' 7"
1000TDW24-200-68	18' 3"	16' 7"	15' 2"	13' 7"	16' 7"	15' 1"	14' 2"	13' 2"
1000TDW24-200-97	20' 4"	18' 6"	17' 5"	16' 2"	18' 6"	16' 10"	15' 10"	14' 8"
1200TDW24-200-54	17' 3"	14' 11"	13' 8"	11' 4"	17' 3"	14' 11"	13' 8"	11' 4"
1200TDW24-200-68	20' 3"	17' 6"	16' 0"	14' 4"	19' 4"	17' 6"	16' 0"	14' 4"
1200TDW24-200-97	23' 8"	21' 6"	20' 3"	18' 2"	21' 6"	19' 7"	18' 5"	17' 1"
1400TDW24-200-68	20' 8"	17' 11"	16' 4"	14' 8"	20' 8"	17' 11"	16' 4"	14' 8"
1400TDW24-200-97	25' 10"	22' 5"	20' 5"	18' 3"	24' 6"	22' 3"	20' 5"	18' 3"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 100 psf**

Product Code	12 psf Dead Load and 100 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	10' 4"	8' 11"	8' 2"	7' 4"	10' 4"	8' 11"	8' 2"	7' 4"
725TDJ24-175-54	12' 10"	11' 8"	10' 10"	9' 9"	11' 8"	10' 7"	10' 0"	9' 3"
725TDJ24-175-68	13' 9"	12' 6"	11' 9"	10' 11"	12' 6"	11' 4"	10' 8"	9' 11"
725TDJ24-175-97	15' 3"	13' 11"	13' 1"	12' 2"	13' 11"	12' 7"	11' 10"	11' 0"
800TDJ24-175-43	10' 9"	9' 4"	8' 6"	7' 8"	10' 9"	9' 4"	8' 6"	7' 8"
800TDJ24-175-54	13' 11"	12' 6"	11' 5"	10' 2"	12' 7"	11' 6"	10' 9"	10' 0"
800TDJ24-175-68	14' 11"	13' 6"	12' 9"	11' 10"	13' 6"	12' 4"	11' 7"	10' 9"
800TDJ24-175-97	16' 7"	15' 1"	14' 2"	13' 2"	15' 1"	13' 8"	12' 10"	11' 11"
925TDJ24-175-43	11' 4"	9' 10"	9' 0"	7' 4"	11' 4"	9' 10"	9' 0"	7' 4"
925TDJ24-175-54	15' 0"	13' 0"	11' 11"	10' 8"	14' 2"	12' 11"	11' 11"	10' 8"
925TDJ24-175-68	16' 9"	15' 2"	13' 10"	12' 4"	15' 3"	13' 10"	13' 0"	12' 1"
925TDJ24-175-97	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
1125TDJ24-175-54	16' 2"	14' 0"	12' 9"	11' 5"	16' 2"	14' 0"	12' 9"	11' 5"
1125TDJ24-175-68	18' 10"	16' 4"	14' 11"	13' 4"	17' 11"	16' 3"	14' 11"	13' 4"
1125TDJ24-175-97	22' 0"	20' 0"	18' 8"	16' 8"	20' 0"	18' 2"	17' 1"	15' 10"
1000TDW24-200-54	16' 3"	14' 1"	12' 10"	11' 6"	15' 6"	14' 1"	12' 10"	11' 6"
1000TDW24-200-68	18' 3"	16' 6"	15' 1"	13' 6"	16' 7"	15' 1"	14' 2"	13' 2"
1000TDW24-200-97	20' 4"	18' 6"	17' 5"	16' 2"	18' 6"	16' 10"	15' 10"	14' 8"
1200TDW24-200-54	17' 1"	14' 10"	13' 6"	11' 1"	17' 1"	14' 10"	13' 6"	11' 1"
1200TDW24-200-68	20' 1"	17' 5"	15' 10"	14' 2"	19' 4"	17' 5"	15' 10"	14' 2"
1200TDW24-200-97	23' 8"	21' 6"	20' 1"	18' 0"	21' 6"	19' 7"	18' 5"	17' 1"
1400TDW24-200-68	20' 6"	17' 9"	16' 3"	14' 6"	20' 6"	17' 9"	16' 3"	14' 6"
1400TDW24-200-97	25' 8"	22' 2"	20' 3"	18' 2"	24' 6"	22' 2"	20' 3"	18' 2"

**Live Load = 100 psf**

Product Code	15 psf Dead Load and 100 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	10' 2"	8' 10"	8' 1"	7' 3"	10' 2"	8' 10"	8' 1"	7' 3"
725TDJ24-175-54	12' 10"	11' 8"	10' 9"	9' 7"	11' 8"	10' 7"	10' 0"	9' 3"
725TDJ24-175-68	13' 9"	12' 6"	11' 9"	10' 11"	12' 6"	11' 4"	10' 8"	9' 11"
725TDJ24-175-97	15' 3"	13' 11"	13' 1"	12' 2"	13' 11"	12' 7"	11' 10"	11' 0"
800TDJ24-175-43	10' 8"	9' 3"	8' 5"	7' 6"	10' 8"	9' 3"	8' 5"	7' 6"
800TDJ24-175-54	13' 11"	12' 4"	11' 3"	10' 1"	12' 7"	11' 6"	10' 9"	10' 0"
800TDJ24-175-68	14' 11"	13' 6"	12' 9"	11' 8"	13' 6"	12' 4"	11' 7"	10' 9"
800TDJ24-175-97	16' 7"	15' 1"	14' 2"	13' 2"	15' 1"	13' 8"	12' 10"	11' 11"
925TDJ24-175-43	11' 2"	9' 8"	8' 10"	7' 1"	11' 2"	9' 8"	8' 10"	7' 1"
925TDJ24-175-54	14' 10"	12' 10"	11' 9"	10' 6"	14' 2"	12' 10"	11' 9"	10' 6"
925TDJ24-175-68	16' 9"	14' 11"	13' 8"	12' 2"	15' 3"	13' 10"	13' 0"	12' 1"
925TDJ24-175-97	18' 8"	17' 0"	16' 0"	14' 10"	17' 0"	15' 5"	14' 6"	13' 6"
1125TDJ24-175-54	15' 11"	13' 10"	12' 7"	11' 3"	15' 11"	13' 10"	12' 7"	11' 3"
1125TDJ24-175-68	18' 7"	16' 2"	14' 9"	13' 2"	17' 11"	16' 2"	14' 9"	13' 2"
1125TDJ24-175-97	22' 0"	20' 0"	18' 5"	16' 5"	20' 0"	18' 2"	17' 1"	15' 10"
1000TDW24-200-54	16' 1"	13' 11"	12' 8"	11' 4"	15' 6"	13' 11"	12' 8"	11' 4"
1000TDW24-200-68	18' 3"	16' 3"	14' 10"	13' 3"	16' 7"	15' 1"	14' 2"	13' 2"
1000TDW24-200-97	20' 4"	18' 6"	17' 5"	16' 2"	18' 6"	16' 10"	15' 10"	14' 8"
1200TDW24-200-54	16' 10"	14' 7"	13' 4"	10' 10"	16' 10"	14' 7"	13' 4"	10' 10"
1200TDW24-200-68	19' 10"	17' 2"	15' 8"	14' 0"	19' 4"	17' 2"	15' 8"	14' 0"
1200TDW24-200-97	23' 8"	21' 6"	19' 10"	17' 9"	21' 6"	19' 7"	18' 5"	17' 1"
1400TDW24-200-68	20' 3"	17' 6"	16' 0"	14' 4"	20' 3"	17' 6"	16' 0"	14' 4"
1400TDW24-200-97	25' 4"	21' 11"	20' 0"	17' 11"	24' 6"	21' 11"	20' 0"	17' 11"

\*See span table notes on page 10.

**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 100 psf**

Product Code	25 psf Dead Load and 100 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	9' 9"	8' 6"	7' 9"	6' 11"	9' 9"	8' 6"	7' 9"	6' 11"
725TDJ24-175-54	12' 10"	11' 3"	10' 3"	9' 2"	11' 8"	10' 7"	10' 0"	9' 2"
725TDJ24-175-68	13' 9"	12' 6"	11' 9"	10' 8"	12' 6"	11' 4"	10' 8"	9' 11"
725TDJ24-175-97	15' 3"	13' 11"	13' 1"	12' 2"	13' 11"	12' 7"	11' 10"	11' 0"
800TDJ24-175-43	10' 3"	8' 10"	8' 1"	7' 3"	10' 3"	8' 10"	8' 1"	7' 3"
800TDJ24-175-54	13' 8"	11' 10"	10' 9"	9' 8"	12' 7"	11' 6"	10' 9"	9' 8"
800TDJ24-175-68	14' 11"	13' 6"	12' 6"	11' 2"	13' 6"	12' 4"	11' 7"	10' 9"
800TDJ24-175-97	16' 7"	15' 1"	14' 2"	13' 2"	15' 1"	13' 8"	12' 10"	11' 11"
925TDJ24-175-43	10' 9"	9' 4"	8' 2"	6' 6"	10' 9"	9' 4"	8' 2"	6' 6"
925TDJ24-175-54	14' 3"	12' 4"	11' 3"	10' 1"	14' 2"	12' 4"	11' 3"	10' 1"
925TDJ24-175-68	16' 7"	14' 4"	13' 1"	11' 8"	15' 3"	13' 10"	13' 0"	11' 8"
925TDJ24-175-97	18' 8"	17' 0"	16' 0"	14' 7"	17' 0"	15' 5"	14' 6"	13' 6"
1125TDJ24-175-54	15' 3"	13' 3"	12' 1"	10' 8"	15' 3"	13' 3"	12' 1"	10' 8"
1125TDJ24-175-68	17' 10"	15' 6"	14' 1"	12' 8"	17' 10"	15' 6"	14' 1"	12' 8"
1125TDJ24-175-97	22' 0"	19' 4"	17' 8"	15' 9"	20' 0"	18' 2"	17' 1"	15' 9"
1000TDW24-200-54	15' 5"	13' 4"	12' 2"	10' 11"	15' 5"	13' 4"	12' 2"	10' 11"
1000TDW24-200-68	18' 0"	15' 7"	14' 3"	12' 9"	16' 7"	15' 1"	14' 2"	12' 9"
1000TDW24-200-97	20' 4"	18' 6"	17' 5"	16' 1"	18' 6"	16' 10"	15' 10"	14' 8"
1200TDW24-200-54	16' 2"	14' 0"	12' 5"	9' 11"	16' 2"	14' 0"	12' 5"	9' 11"
1200TDW24-200-68	19' 0"	16' 5"	15' 0"	13' 5"	19' 0"	16' 5"	15' 0"	13' 5"
1200TDW24-200-97	23' 8"	20' 10"	19' 0"	17' 0"	21' 6"	19' 7"	18' 5"	17' 0"
1400TDW24-200-68	19' 5"	16' 10"	15' 4"	13' 9"	19' 5"	16' 10"	15' 4"	13' 9"
1400TDW24-200-97	24' 3"	21' 0"	19' 2"	17' 2"	24' 3"	21' 0"	19' 2"	17' 2"

**Live Load = 100 psf**

Product Code	40 psf Dead Load and 100 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	9' 3"	8' 0"	7' 4"	6' 6"	9' 3"	8' 0"	7' 4"	6' 6"
725TDJ24-175-54	12' 3"	10' 8"	9' 9"	8' 8"	11' 8"	10' 7"	9' 9"	8' 8"
725TDJ24-175-68	13' 9"	12' 4"	11' 3"	10' 1"	12' 6"	11' 4"	10' 8"	9' 11"
725TDJ24-175-97	15' 3"	13' 11"	13' 1"	12' 2"	13' 11"	12' 7"	11' 10"	11' 0"
800TDJ24-175-43	9' 8"	8' 4"	7' 8"	6' 9"	9' 8"	8' 4"	7' 8"	6' 9"
800TDJ24-175-54	12' 11"	11' 2"	10' 2"	9' 1"	12' 7"	11' 2"	10' 2"	9' 1"
800TDJ24-175-68	14' 11"	12' 11"	11' 10"	10' 7"	13' 6"	12' 4"	11' 7"	10' 7"
800TDJ24-175-97	16' 7"	15' 1"	14' 2"	13' 2"	15' 1"	13' 8"	12' 10"	11' 11"
925TDJ24-175-43	10' 2"	8' 9"	7' 4"	5' 10"	10' 2"	8' 9"	7' 4"	5' 10"
925TDJ24-175-54	13' 5"	11' 8"	10' 8"	9' 6"	13' 5"	11' 8"	10' 8"	9' 6"
925TDJ24-175-68	15' 8"	13' 6"	12' 4"	11' 1"	15' 3"	13' 6"	12' 4"	11' 1"
925TDJ24-175-97	18' 8"	16' 11"	15' 5"	13' 10"	17' 0"	15' 5"	14' 6"	13' 6"
1125TDJ24-175-54	14' 5"	12' 6"	11' 5"	9' 6"	14' 5"	12' 6"	11' 5"	9' 6"
1125TDJ24-175-68	16' 11"	14' 7"	13' 4"	11' 11"	16' 11"	14' 7"	13' 4"	11' 11"
1125TDJ24-175-97	21' 1"	18' 3"	16' 8"	14' 11"	20' 0"	18' 2"	16' 8"	14' 11"
1000TDW24-200-54	14' 7"	12' 7"	11' 6"	10' 4"	14' 7"	12' 7"	11' 6"	10' 4"
1000TDW24-200-68	17' 0"	14' 9"	13' 6"	12' 1"	16' 7"	14' 9"	13' 6"	12' 1"
1000TDW24-200-97	20' 4"	18' 6"	17' 0"	15' 3"	18' 6"	16' 10"	15' 10"	14' 8"
1200TDW24-200-54	15' 4"	13' 3"	11' 1"	8' 11"	15' 4"	13' 3"	11' 1"	8' 11"
1200TDW24-200-68	17' 11"	15' 7"	14' 2"	12' 8"	17' 11"	15' 7"	14' 2"	12' 8"
1200TDW24-200-97	22' 9"	19' 8"	18' 0"	16' 1"	21' 6"	19' 7"	18' 0"	16' 1"
1400TDW24-200-68	18' 4"	15' 11"	14' 6"	13' 0"	18' 4"	15' 11"	14' 6"	13' 0"
1400TDW24-200-97	22' 11"	19' 10"	18' 2"	16' 3"	22' 11"	19' 10"	18' 2"	16' 3"

\*See span table notes on page 10.

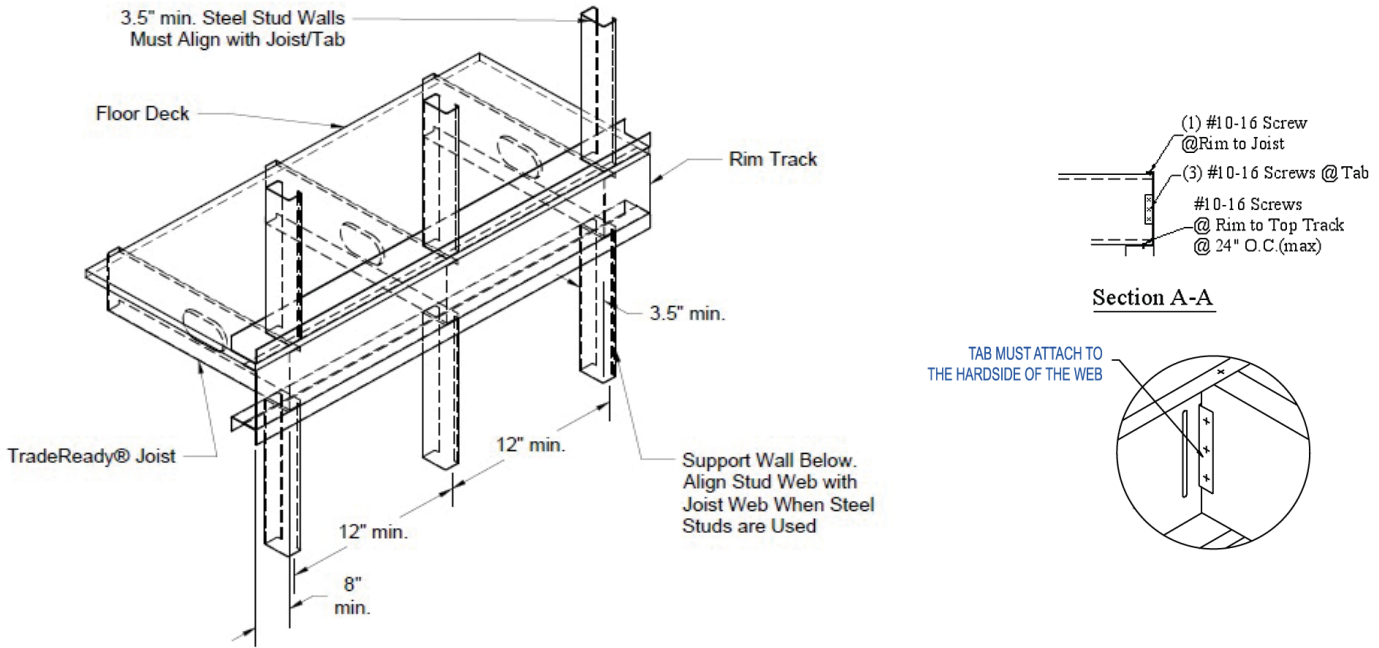
**TRADEREADY® FLOOR JOIST SPAN TABLES**

**Live Load = 125 psf**

Product Code	12 psf Dead Load and 125 psf Live Load							
	TL Deflection = L/240, LL Deflection = L/360 Single Span				TL Deflection = L/240, LL Deflection = L/480 Single Span			
	Spacing (in) o.c.				Spacing (in) o.c.			
	12	16	19.2	24	12	16	19.2	24
725TDJ24-175-43	9' 4"	8' 1"	7' 5"	6' 7"	9' 4"	8' 1"	7' 5"	6' 7"
725TDJ24-175-54	11' 11"	10' 9"	9' 10"	8' 9"	10' 10"	9' 10"	9' 3"	8' 7"
725TDJ24-175-68	12' 9"	11' 7"	10' 11"	10' 2"	11' 7"	10' 7"	9' 11"	9' 3"
725TDJ24-175-97	14' 2"	12' 11"	12' 2"	11' 3"	12' 11"	11' 9"	11' 0"	10' 3"
800TDJ24-175-43	9' 9"	8' 5"	7' 9"	6' 11"	9' 9"	8' 5"	7' 9"	6' 11"
800TDJ24-175-54	12' 11"	11' 3"	10' 4"	9' 3"	11' 9"	10' 8"	10' 0"	9' 3"
800TDJ24-175-68	13' 10"	12' 7"	11' 10"	10' 8"	12' 7"	11' 5"	10' 9"	10' 0"
800TDJ24-175-97	15' 5"	14' 0"	13' 2"	12' 2"	14' 0"	12' 8"	11' 11"	11' 1"
925TDJ24-175-43	10' 3"	8' 11"	7' 5"	6' 0"	10' 3"	8' 11"	7' 5"	6' 0"
925TDJ24-175-54	13' 7"	11' 9"	10' 9"	9' 7"	13' 2"	11' 9"	10' 9"	9' 7"
925TDJ24-175-68	15' 7"	13' 8"	12' 6"	11' 2"	14' 2"	12' 10"	12' 1"	11' 2"
925TDJ24-175-97	17' 4"	15' 9"	14' 10"	13' 9"	15' 9"	14' 4"	13' 6"	12' 6"
1125TDJ24-175-54	14' 7"	12' 8"	11' 6"	9' 8"	14' 7"	12' 8"	11' 6"	9' 8"
1125TDJ24-175-68	17' 1"	14' 9"	13' 6"	12' 1"	16' 8"	14' 9"	13' 6"	12' 1"
1125TDJ24-175-97	20' 5"	18' 5"	16' 10"	15' 1"	18' 6"	16' 10"	15' 10"	14' 9"
1000TDW24-200-54	14' 9"	12' 9"	11' 8"	10' 5"	14' 4"	12' 9"	11' 8"	10' 5"
1000TDW24-200-68	17' 0"	14' 11"	13' 7"	12' 2"	15' 5"	14' 0"	13' 2"	12' 2"
1000TDW24-200-97	18' 11"	17' 2"	16' 2"	15' 0"	17' 2"	15' 7"	14' 8"	13' 8"
1200TDW24-200-54	15' 6"	13' 5"	11' 4"	9' 1"	15' 6"	13' 5"	11' 4"	9' 1"
1200TDW24-200-68	18' 2"	15' 9"	14' 4"	12' 10"	17' 11"	15' 9"	14' 4"	12' 10"
1200TDW24-200-97	22' 0"	19' 11"	18' 2"	16' 3"	20' 0"	18' 2"	17' 1"	15' 10"
1400TDW24-200-68	18' 7"	16' 1"	14' 8"	13' 1"	18' 7"	16' 1"	14' 8"	13' 1"
1400TDW24-200-97	23' 2"	20' 1"	18' 4"	16' 5"	22' 9"	20' 1"	18' 4"	16' 5"

\*See span table notes on page 10.

## WEB CRIPPLING



### Allowable Web Crippling Loads for Joist and Track

Product Code	ETF Web Crippling Allowable Loads (lbs) for Rim Track Thickness			
	43mil (18ga)	54mil (16ga)	68mil (14ga)	97mil (12ga)
725TDJ24-175-43	1104	1682	2195	3588
725TDJ24-175-54	1901	2479	2991	4385
725TDJ24-175-68	2596	3174	3686	5080
725TDJ24-175-97	4470	5048	5560	6953
800TDJ24-175-43	1087	1658	2165	3549
800TDJ24-175-54	1873	2444	2952	4336
800TDJ24-175-68	2563	3134	3642	5025
800TDJ24-175-97	4423	4994	5502	6885
925TDJ24-175-43	1059	1619	2120	3488
925TDJ24-175-54	1830	2390	2891	4259
925TDJ24-175-68	2511	3071	3572	4940
925TDJ24-175-97	4349	4909	5410	6778
1125TDJ24-175-54	—	2311	2802	4147
1125TDJ24-175-68	—	2978	3469	4814
1125TDJ24-175-97	—	4785	5277	6622
1000TDW24-200-54	—	2359	2857	4216
1000TDW24-200-68	—	3035	3532	4891
1000TDW24-200-97	—	4861	5359	6718
1200TDW24-200-54	—	2283	2771	4108
1200TDW24-200-68	—	2945	3433	4770
1200TDW24-200-97	—	4742	5230	6567
1400TDW24-200-68	—	—	3343	4659
1400TDW24-200-97	—	—	5112	6429

### NOTES

- (ETF) End Two Flange which indicates a condition where you have a load bearing wall above and below the end of a joist.
- The rim must be installed with the tab on the outside (i.e. hard side) of the joist web. If this is not done, the tabulated ETF (End Two-Flange) values are not valid.
- The tabulated ETF values are for joist/tab spacings of 12", 16", 19.2" and 24" o.c.
- The bearing stud web depth is 3.5". The bearing stud flange width is 1.625".
- Steel wall studs (framing member) must align with joist/tab.
- F<sub>y</sub>=33ksi for 18ga.  
F<sub>y</sub>=50ksi for 16ga, 14ga, and 12ga products.
- Floor sheathing must be cut to within 1/8" of the rim web.
- The tabulated web crippling values are only for the web crippling limit state of the joist and rim. Other limit states such as sheathing bearing failure, wood runner bearing failure, local compression failure of steel studs, and other local failures must also be checked.
- The tabulated allowable load is the total allowable joist reaction from walls/point loads from above combined with the normal distributed design loads of the floor.

# FRAMING & CONSTRUCTION DETAILS

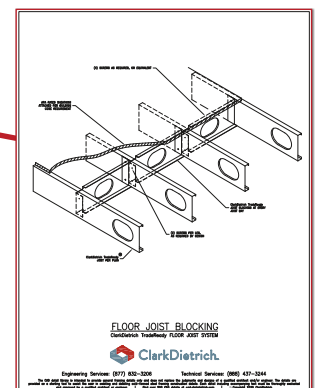
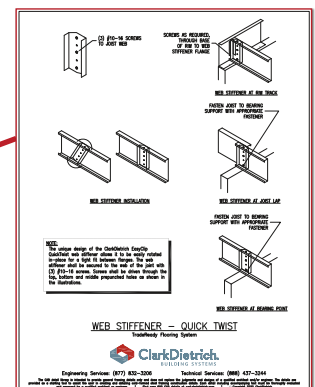
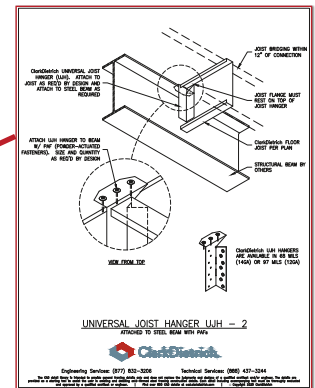
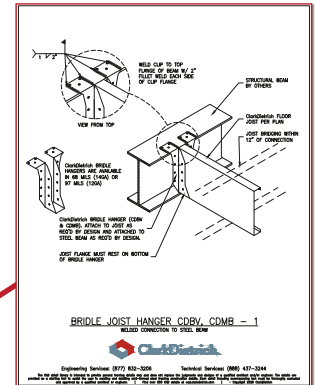
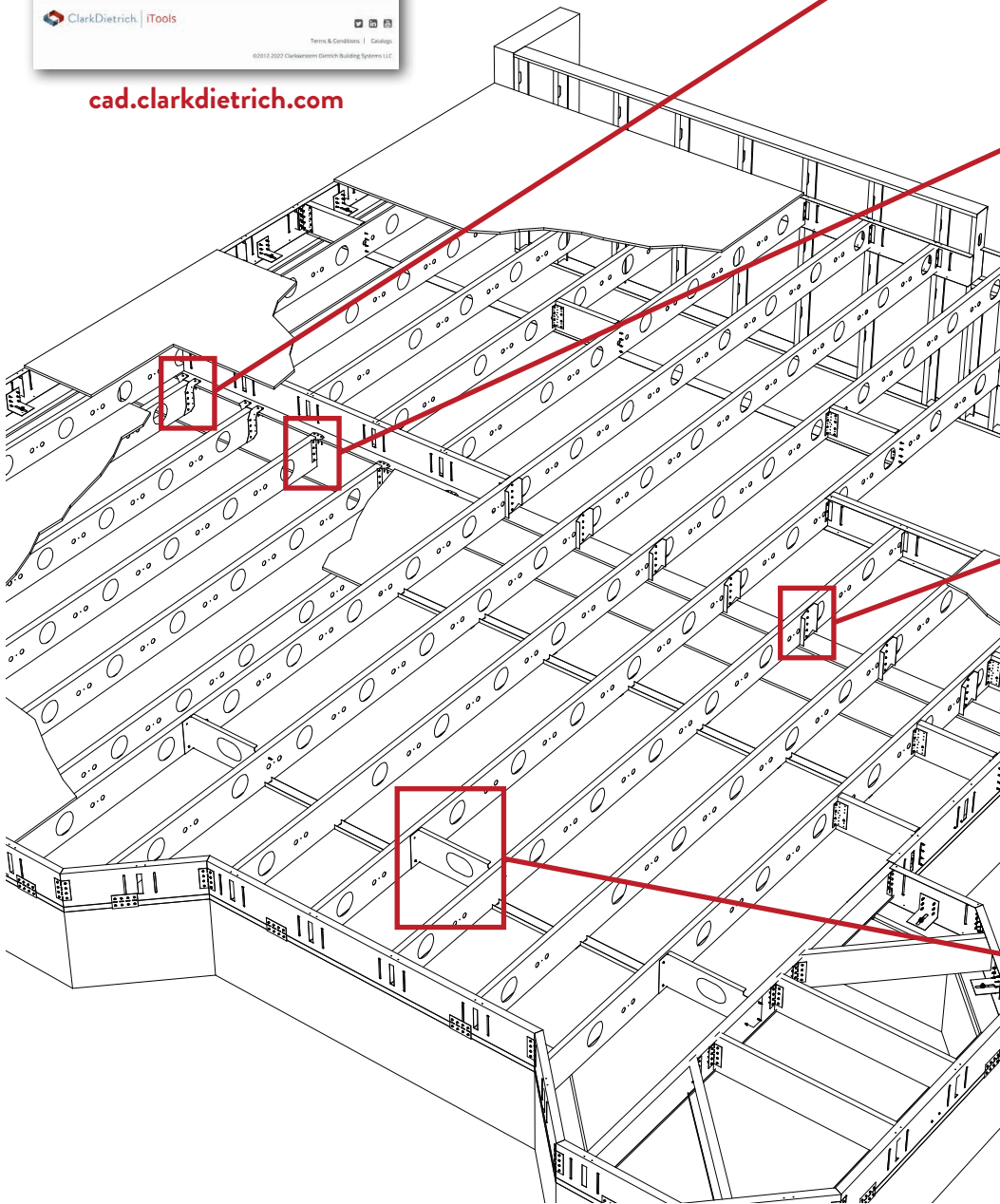
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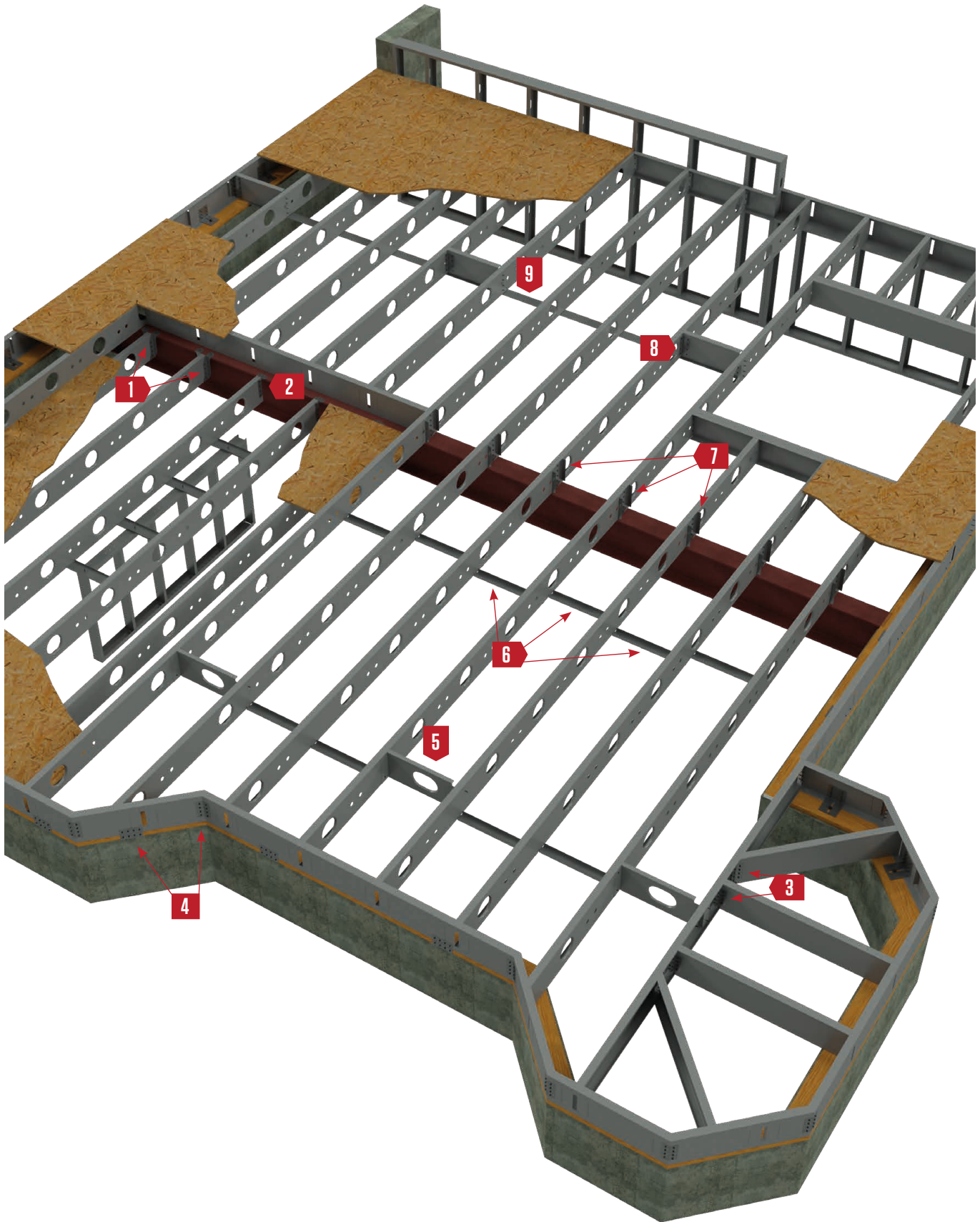


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The CAD detail library is intended to provide general framing details only and does not replace the judgments and designs of a qualified architect and/or engineer. The details are provided as a starting tool to assist the user in creating and detailing cold-formed steel framing construction details. Each detail including accompanying text must be thoroughly evaluated and approved by a qualified architect or engineer.

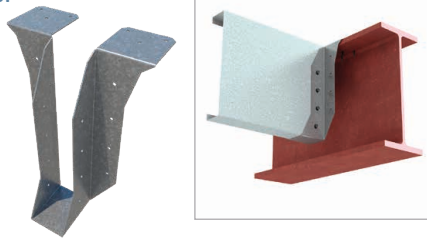


PRODUCT DETAIL

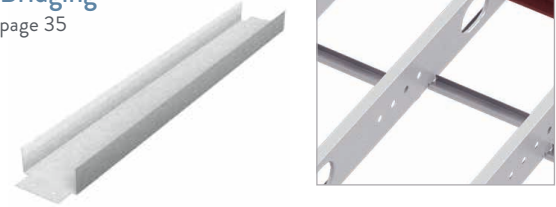




**1** **Bridle Hanger**  
pages 26-27



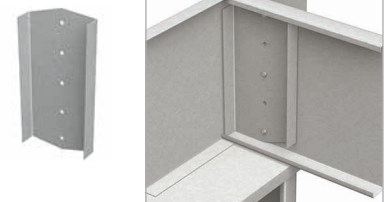
**6** **TradeReady® Structural Bridging**  
page 35



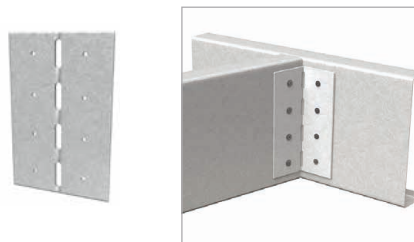
**2** **Universal Joist Hanger**  
pages 28-30



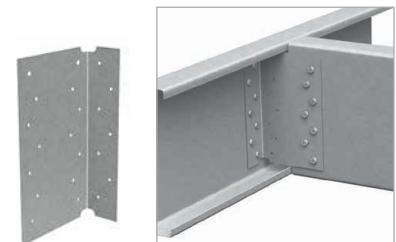
**7** **EasyClip™ QuickTwist™ Web Stiffener**  
pages 36-37



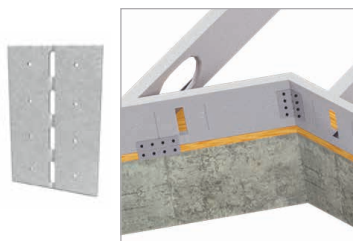
**3** **Skewable Angle**  
page 31



**8** **EasyClip E-Series™ Support Clip**  
pages 38-39



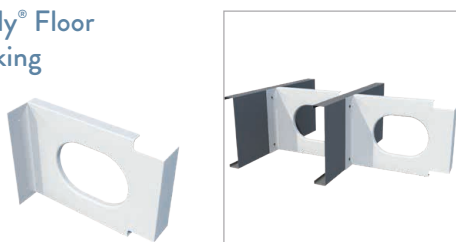
**4** **TradeReady® Rim Track Splice Plate**  
pages 32-33



**9** **Commercial Strapping**  
pages 40-41



**5** **TradeReady® Floor Joist Blocking**  
page 34



## BRIDLE HANGER

Attach floor joists to structural steel beams or wood ledgers.

Bridle hangers are commonly used to attach light-gauge C-joists to structural steel beams or wood ledgers. Connections can be made with screws, powder-actuated fasteners, drill-in concrete anchors or welding. Single- and double-wide bridle hangers are available.

### PRODUCT DIMENSIONS

Widths: 2-1/16" or 4-1/8"  
 Heights: 6", 8", 10" or 12"

### MATERIAL SPECIFICATIONS

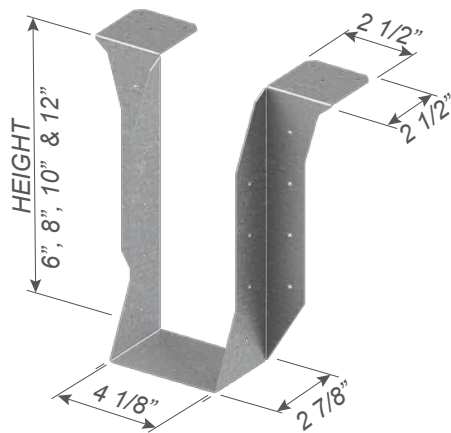
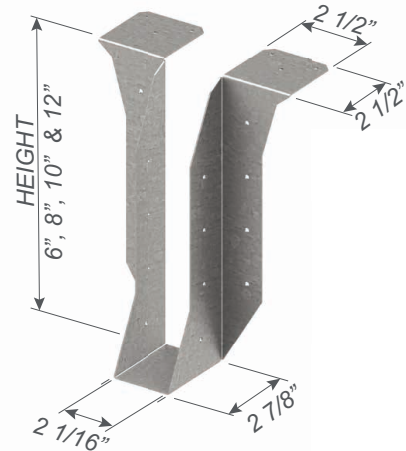
**Gauge:** 14 gauge (68mil)  
**Design Thickness:** 0.0713 inches

**Gauge:** 12 gauge (97mil)  
**Design Thickness:** 0.1017 inches

**Coating:** G90  
**ASTM:** A653/A653M

### INSTALLATION

Attach bridle hanger to the primary frame as specified. When welding the hanger to the primary frame, a minimum of 2" fillet weld on each top flange is required. Distribute the weld equally on both top flanges. Uplift loads do not apply to weld-on applications. Special considerations must be taken when welding galvanized steel. Place joist into hanger and secure with fasteners. If bridle hanger is blocking.

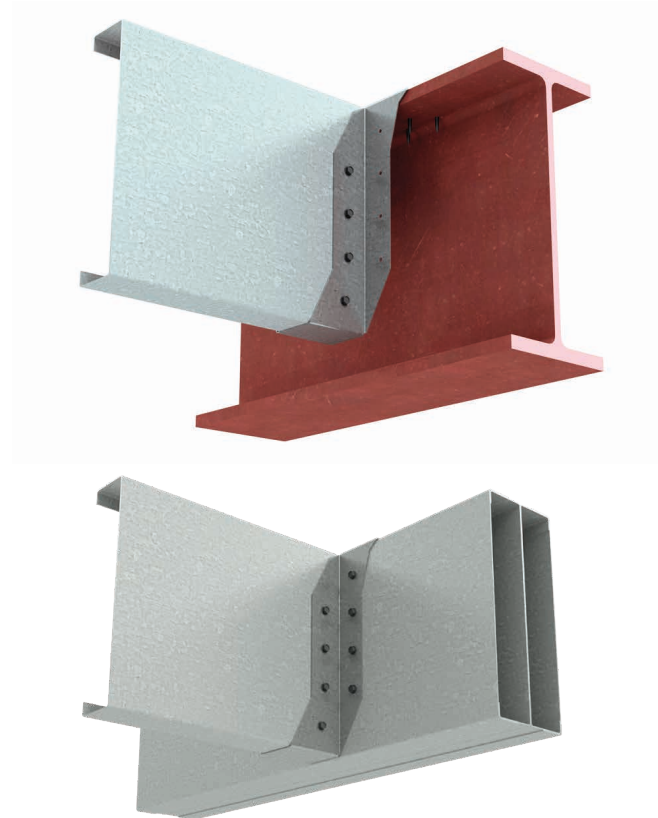


### Bridle Hangers (CDBV, CDMB)

Product code	Thickness		Depth (H) (in)	Width (W) (in)	Packaging Pcs./Carton
	Mils (Gauge)	Design thickness (in)			
CDBV 1-5/8 x 6	68mil (14ga)	0.0713	6	1-5/8	20
CDBV 1-5/8 x 8			8		20
CDBV 1-5/8 x 10			10		15
CDBV 1-5/8 x 12			12		15
CDBV 2 x 6	68mil (14ga)	0.0713	6	2-1/16	20
CDBV 2 x 8			8		20
CDBV 2 x 10			10		15
CDBV 2 x 12			12		15
CDBV 4 x 6	68mil (14ga)	0.0713	6	4-1/8	15
CDBV 4 x 8			8		15
CDBV 4 x 10			10		15
CDBV 4 x 12			12		15
CDMB 1-5/8 x 6	97mil (12ga)	0.1017	6	1-5/8	20
CDMB 1-5/8 x 8			8		20
CDMB 1-5/8 x 10			10		15
CDMB 1-5/8 x 12			12		15
CDMB 2 x 6	97mil (12ga)	0.1017	6	2-1/16	20
CDMB 2 x 8			8		20
CDMB 2 x 10			10		15
CDMB 2 x 12			12		15
CDMB 4 x 6	97mil (12ga)	0.1017	6	4-1/8	15
CDMB 4 x 8			8		15
CDMB 4 x 10			10		15
CDMB 4 x 12			12		15

### Bridle Hangers (CDBV, CDMB)

Product code	Member Designation (in)		Screw Configuration / Hanger			ASD Loads (lb)	
	Width	Height	Header		Joist	Uplift	Down
			Flange	Web	Web		
CDBV 68mil (14ga)	1-11/16"	6	(6) #10	(4) #12	(2) #12	1146	1443
		8	(6) #10	(6) #12	(3) #12	1929	2193
		10	(6) #10	(8) #12	(4) #12	2314	2620
		12	(6) #10	(10) #12	(5) #12	2873	3319
		6	(4) x 2" fillet weld [each side of top flange]	(2) #12	-	1554	
		8		(3) #12	-	2089	
	10	(4) #12		-	2089		
	12	(5) #12		-	2089		
	2-1/16"	6	(6) #10	(4) #12	(2) #12	1146	1443
		8	(6) #10	(6) #12	(3) #12	1929	2193
		10	(6) #10	(8) #12	(4) #12	2314	2620
		12	(6) #10	(10) #12	(5) #12	2873	3319
		6	(4) x 2" fillet weld [each side of top flange]	(2) #12	-	1554	
		8		(3) #12	-	2089	
	10	(4) #12		-	2089		
	12	(5) #12		-	2089		
	4-1/8"	6	(6) #10	(4) #12	(4) #12	2293	2886
		8	(6) #10	(6) #12	(6) #12	3699	4197
		10	(6) #10	(8) #12	(8) #12	4629	5239
		12	(6) #10	(10) #12	(10) #12	5025	6054
		6	(4) x 2" fillet weld [each side of top flange]	(4) #12	-	3108	
		8		(6) #12	-	3771	
	10	(8) #12		-	5055		
	12	(10) #12		-	5104		
CDMB 97mil (12ga)	1-11/16"	6	(6) #10	(4) #14	(2) #14	1545	2032
		8	(6) #10	(6) #14	(3) #14	2370	2687
		10	(6) #10	(8) #14	(4) #14	3166	3474
		12	(6) #10	(10) #14	(5) #14	3927	4950
		6	(4) x 2" fillet weld [each side of top flange]	(2) #14	-	2032	
		8		(3) #14	-	2462	
	10	(4) #14		-	2993		
	12	(5) #14		-	2993		
	2-1/16"	6	(6) #10	(4) #14	(2) #14	1545	2032
		8	(6) #10	(6) #14	(3) #14	2370	2687
		10	(6) #10	(8) #14	(4) #14	3166	3474
		12	(6) #10	(10) #14	(5) #14	3927	4950
		6	(4) x 2" fillet weld [each side of top flange]	(2) #14	-	2032	
		8		(3) #14	-	2462	
	10	(4) #14		-	2993		
	12	(5) #14		-	2993		
	4-1/8"	6	(6) #10	(4) #14	(4) #14	3090	4064
		8	(6) #10	(6) #14	(6) #14	4332	5558
		10	(6) #10	(8) #14	(8) #14	6332	6949
		12	(6) #10	(10) #14	(10) #14	7771	8948
		6	(4) x 2" fillet weld [each side of top flange]	(4) #14	-	4064	
		8		(6) #14	-	4789	
	10	(8) #14		-	6078		
	12	(10) #14		-	6489		



**Notes:**

- 1 Screws shall be installed through the pre-drilled holes in the hanger or as detailed by the designer.
- 2 CFS joist shall be laterally braced per designer specification.
- 3 An 1/8" gap shall be maintained between end of the joist and the supporting header.
- 4 CFS header must be braced to prevent web crippling/buckling per designer specification.
- 5 CFS header must have full bearing of 2-1/2" flange-depth.
- 6 The ultimate screw shear strength for #12 screws shall be at least 2330 lbs.
- 7 The ultimate screw shear strength for #14 screws shall be at least 3048 lbs.
- 8 The screw shear strength capacities are based on CFSEI Tech Note (F701-12).
- 9 Allowable loads have not been increased for seismic or wind.
- 10 Contact ClarkDietrich Engineering Services for technical assistance.

## UNIVERSAL JOIST HANGER

### Floor joist connection to structural steel beams or CFS headers

The Universal Joist Hangers (UJH) 68mils (14ga) are used to connect joists to CFS headers (with screws, welds or PAF fasteners) and steel I-beams (with welds or PAF fasteners). The UJH is sized to fit joist sizes from 8" to 14" deep. Also available in 97mils (12ga).

### PRODUCT DIMENSIONS

**Dimensions:** 4" x 7-1/2" long

**Packaging:** (25) pieces per bucket

### MATERIAL SPECIFICATIONS

**Gauge:** 14 gauge (68mil)

**Design Thickness:** 0.0713 inches

**Yield Strength:** Structural Grade 50  
Type H (ST50H), 50ksi

**Coating:** G90

**ASTM:** A1003, ASTM A653

**Gauge:** 12 gauge (97mil)

**Design Thickness:** 0.1017 inches

**Yield Strength:** Structural Grade 50  
Type H (ST50H), 50ksi

**Coating:** G90

**ASTM:** A1003, ASTM A653

### INSTALLATION

#### Clip to Joist Attachment:

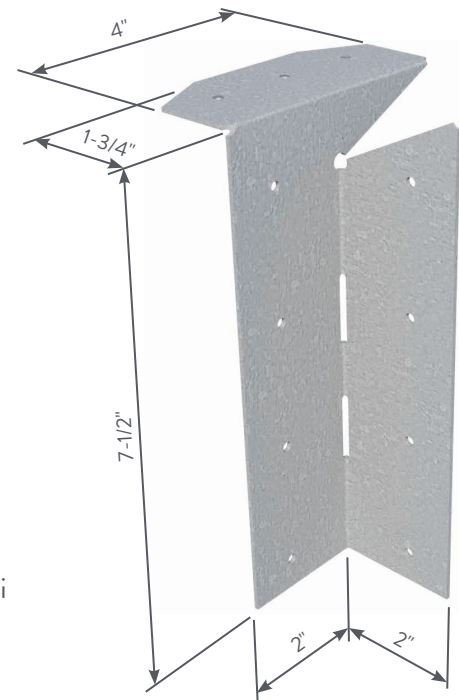
- The joist flange must rest on top of the Universal Joist Hanger as shown in the image to the right. Attach the UJH hanger with specified number of #10 or #14 screws as listed in the table below under the Joist column.

#### Clip attachment to CFS Header:

- Attach the UJH hanger to the top and side (face) of the CFS Header with specified number of #10 screws as listed in the table below.

#### Clip attachment to Structural/Steel Beam

- Welded Connection:**  
The minimum required weld to the top flange is 2" fillet weld to each side of top flange. Special considerations must be taken when welding galvanized steel.
- PAF (Powder Actuated Fasteners):**  
For powder actuated fasteners attachment (PAF, 0.157"), steel beam shall have minimum 3/16" thickness and minimum yield strength of 36ksi.



UJH-68



### Universal Joist Hanger (UJH)

Product code	Thickness		Packaging Pcs./Bucket
	Mils (Gauge)	Design thickness (in)	
UJH-68	68mil (14ga)	0.0713"	50
UJH-97	97mil (12ga)	0.1017"	50

### UJH-68 Mils (14ga)

### ALLOWABLE HANGER LOADS

Product code	Joist (ga)	Header (ga)	Fasteners			Allowable ASD Loads (lbs)	
			Top	Face	Joist	Uplift	Down
UJH-68	<b>ATTACHMENT TO CFS HEADER</b>						
	18	16	2 - #10	2 - #10	2 - #10	430	473
			3 - #10	4 - #10	4 - #10	860	946
			3 - #10	7 - #10	7 - #10	860	1021
	16	16	2 - #10	2 - #10	2 - #10	789	789
			3 - #10	4 - #10	4 - #10	1548	1548
			3 - #10	7 - #10	7 - #10	1548	1705
	14	14	2 - #10	2 - #10	2 - #10	852	935
			3 - #10	4 - #10	4 - #10	1639	1798
			3 - #10	7 - #10	7 - #10	2077	2115
	12	12	2 - #10	2 - #10	2 - #10	906	1035
			3 - #10	4 - #10	4 - #10	1710	1953
3 - #10			7 - #10	7 - #10	2536	3026	

Product code	Joist (ga)	Header (ga)	ATTACHMENT TO STEEL HEADER			
			Fasteners	Uplift	Down	
UJH-68	18	2" long fillet [Weld to each side of top flange]	2 - #10	132	788	
			4 - #10	263	975	
			7 - #10	298	975	
	16		2 - #10	132	997	
			4 - #10	263	1148	
			7 - #10	334	1148	
	14		2 - #10	132	997	
			4 - #10	263	1148	
			7 - #10	334	1148	
	12		2 - #10	132	1035	
			4 - #10	263	1285	
			7 - #10	334	1285	
	18		2 x 0.157" PAF	2 - #10	126	784
			3 x 0.157" PAF	4 - #10	136	869
			7 - #10	136	869	
	16		2 x 0.157" PAF	2 - #10	132	965
			3 x 0.157" PAF	4 - #10	171	1117
			7 - #10	171	1117	
	14		2 x 0.157" PAF	2 - #10	132	965
			3 x 0.157" PAF	4 - #10	171	1117
			7 - #10	171	1117	
	12		2 x 0.157" PAF	2 - #10	132	1035
			3 x 0.157" PAF	4 - #10	241	1279
			7 - #10	241	1304	

**Notes:**

- 1 Screws shall be installed through the pre-drilled holes in the hanger or as detailed by the designer.
- 2 CFS joist shall be laterally braced per designer specification.
- 3 For a gap between the end of the joist and the face of the hanger ranging between 0" - 1/2", no adjustment factor is required. When the gap is between 1/2" and 7/8", an adjustment factor of 0.95 shall be used to the load capacities listed.
- 4 For skew condition up to 45°, an adjustment factor of 0.95 for 7-screw condition and 0.80 for 4-screw condition shall be used. No skew is allowed for 2-screw connection.
- 5 If the clip is installed hard side (exterior web) of CFS joist, an adjustment factor of 0.95 shall be used to the load capacities listed. In addition, if the clip has to be skewed up to 45°, an additional adjustment factor of 0.95 for 7-screw condition and 0.80 for 4-screw condition shall be used to the load capacities listed.
- 6 CFS header must be braced to prevent web crippling/buckling per designer specification.
- 7 CFS header must provide full bearing of 1-5/8" flange-depth.
- 8 Backing of the steel beam cavity is not required behind the hanger for the load listed.
- 9 The ultimate screw shear strength for #10 screws shall be at least 1644 lbs.
- 10 The screw shear strength capacities are based on CFSEI Tech Note (F701-12).
- 11 Allowable loads have not been increased for seismic or wind.
- 12 Contact ClarkDietrich Engineering Services for technical assistance.

## UNIVERSAL JOIST HANGER

## UJH-97 Mils (12ga)

## ALLOWABLE HANGER LOADS

Product code	Joist (Ga)	Header (Ga)	Fasteners			Allowable ASD Loads (lbs)	
			Top	Face	Joist	Uplift	Down
UJH-97	<b>ATTACHMENT TO CFS HEADER</b>						
	18	16	2 - #10	2 - #10	2 - #14	439	489
			3 - #10	4 - #10	4 - #14	860	959
			3 - #10	7 - #14	7 - #14	958	1021
	16	16	2 - #10	2 - #10	2 - #14	940	940
			3 - #10	4 - #10	4 - #14	1773	1773
			3 - #10	7 - #14	7 - #14	1773	1931
	14	14	2 - #10	2 - #10	2 - #14	1123	1327
			3 - #10	4 - #10	4 - #14	2041	2413
			3 - #10	7 - #14	7 - #14	2388	2445
	12	12	2 - #10	2 - #10	2 - #14	1238	1898
			3 - #10	4 - #10	4 - #14	2135	3273
3 - #10			7 - #14	7 - #14	4092	4350	

Product code	Joist (Ga)	Header (Ga)	Fasteners				Allowable ASD Loads (lbs)	
			Top	Face	Joist	Uplift	Down	
UJH-97	<b>ATTACHMENT TO STEEL HEADER</b>							
	18					2 - #14	201	837
						4 - #14	401	975
						7 - #14	431	975
	16					2 - #14	201	1472
						4 - #14	401	1570
						7 - #14	577	1696
	14					2 - #14	201	1472
						4 - #14	401	1570
						7 - #14	577	1696
	12					2 - #14	201	1651
						4 - #14	401	1738
						7 - #14	598	1761
	18			2 x 0.157" PAF		2 - #14	201	890
						4 - #14	252	890
						7 - #14	252	890
	16			3 x 0.157" PAF		2 - #14	201	1380
						4 - #14	332	1626
						7 - #14	332	1626
	14			2 x 0.157" PAF		2 - #14	201	1380
						4 - #14	332	1626
						7 - #14	332	1626
	12			3 x 0.157" PAF		2 - #14	201	1644
						4 - #14	367	1730
7 - #14						367	1812	

**Notes:**

- 1 Screws shall be installed through the pre-drilled holes in the hanger or as detailed by the designer.
- 2 CFS joist shall be laterally braced per designer specification.
- 3 For a gap between the end of the joist and the face of the hanger ranging between 0" - 7/8", no adjustment factor is required.
- 4 For skew condition up to 45°, an adjustment factor of 0.85 for 7-screw condition and 0.90 for 4-screw condition shall be used.  
No skew is allowed for 2-screw connection.
- 5 If the clip is installed hard side (exterior web) of CFS joist, no adjustment factor is required.
- 6 CFS header must be braced to prevent web crippling/buckling per designer specification.
- 7 CFS header must provide full bearing of 1-5/8" flange-depth.
- 8 Backing of the steel beam cavity is not required behind the hanger for the load listed.
- 9 The ultimate screw shear strength for #14 screws shall be at least 3048 lbs.
- 10 The screw shear strength capacities are based on CFSEI Tech Note (F701-12).
- 11 Allowable loads have not been increased for seismic or wind.
- 12 Contact ClarkDietrich Engineering Services for technical assistance.

# SKEWABLE ANGLE

For rigid and off-angle attachments of joist-to-joist, joist-to-hip beam, or to other structural steel members.

ClarkDietrich skewable angles are used to make rigid attachments of joist-to-joist or joist-to-other miscellaneous framing. This clip is ideal for making off-angle attachments. It is easily field bent from 0° to 135°.

### MATERIAL SPECIFICATIONS

- Gauge:** 18 gauge (43mil)
- Design Thickness:** 0.0451 inches
- Coating:** G90
- ASTM:** A653/A653M

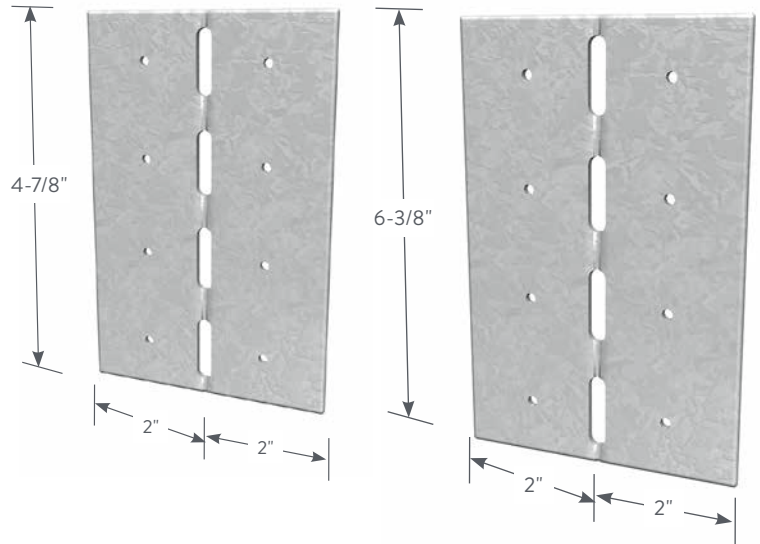
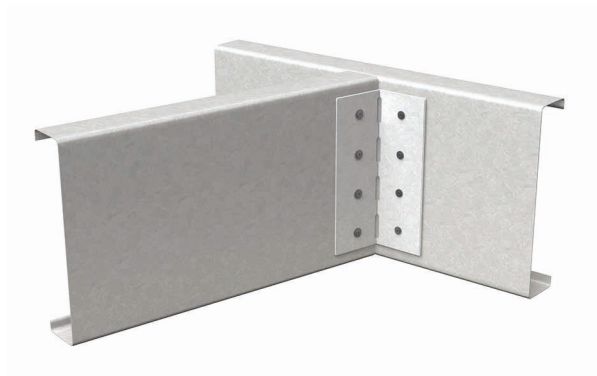
**CAUTION:** This clip can only be bent one time.

### PRODUCT DIMENSIONS

- 2" x 2" x 3"
- 2" x 2" x 4-7/8"
- 2" x 2" x 5"
- 2" x 2" x 6-3/8"
- 2" x 2" x 7"
- 2" x 2" x 9"

### INSTALLATION

Use all specified fasteners. ClarkDietrich field-skewable; bend one time only. Joist must be constrained against rotation when using a single SLS per connection.



## Skewable Angles (SA)

Product code	Thickness		Size (in)	Packaging Pcs./Carton
	Mils (Gauge)	Design thickness (in)		
SA4	43mil (18ga)	0.0451	4-7/8	100
SA6	43mil (18ga)	0.0451	6-3/8	50
SA3	43mil (18ga)	0.0451	3	50
SA5	43mil (18ga)	0.0451	5	50
SA7	43mil (18ga)	0.0451	7	50
SA9	43mil (18ga)	0.0451	9	50

Product code	Length (in)	Fasteners	Allowable Loads	
			F1	F2
SA4	4-7/8	4 - #10	500	—
SA6	6-3/8	6 - #10	760	—
SA3	3	6 - #10	*	*
SA5	5	8 - #10	*	*
SA7	7	10 - #10	*	*
SA9	9	14 - #10	*	*

**Notes:**

- 1 No load duration increase allowed.
- 2 Loads are for one part only.
- 3 Loads are for part bent one time only.

\* Refer to clarkdietrich.com for additional information on allowable loads.

## FIELD SKEWABLE TRADEREADY® RIM TRACK SPLICE PLATE

Ideal for splicing rim joist and is easily field skewable for off-angle rim joist connections.

The ClarkDietrich field skewable TradeReady® Rim Track Splice Plate provides an easy and efficient method for splicing TradeReady rim. This prepunched plate is also ideal for connecting and reinforcing the rim at bay or bow window details. The center of the plate allows for easy one-time field bending from 0° to 135°.

**CAUTION:** This plate can only be bent one time.

### MATERIAL SPECIFICATIONS

**Gauge:** 16 gauge (54mil)

**Design Thickness:** 0.0566 inches

**Yield Strength:** 50ksi

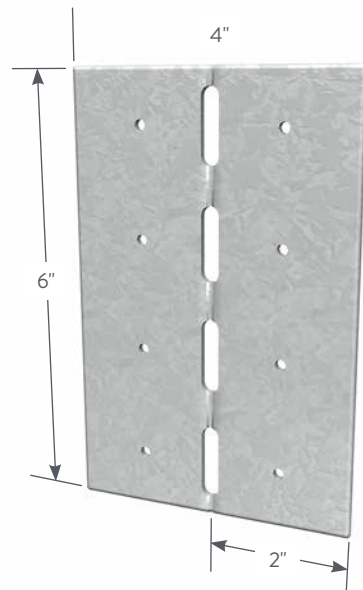
**Coating:** G90

**ASTM:** A653/A653M

### INSTALLATION

For splicing connections, align center slots in splice plate over the joint of the rim joists. Secure splice plate by filling all prepunched screw holes with #10 screws.

For off-angle connections, field bend (ONE TIME ONLY) to the required degree so the plate fits securely over the two adjoining members. Secure field skewable plate by filling all prepunched screw holes with #10 screws.

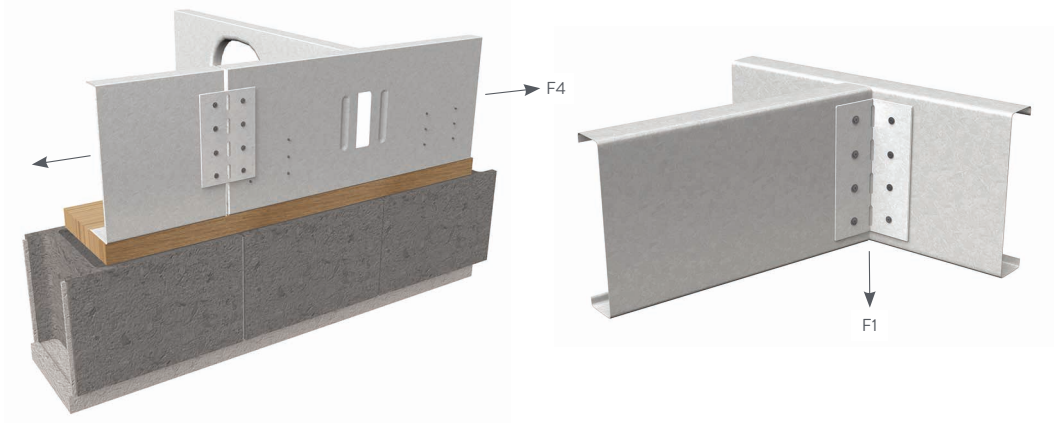


Field Skewable TradeReady Rim Track Splice Plate

### Field Skewable TradeReady® Rim Track Splice Plates (TDSP)

Product code	Thickness		Size (in)	Packaging Pcs./Bucket
	Mils (Gauge)	Design thickness (in)		
TDSP	54mil (16ga)	0.0566	4 x 6	100



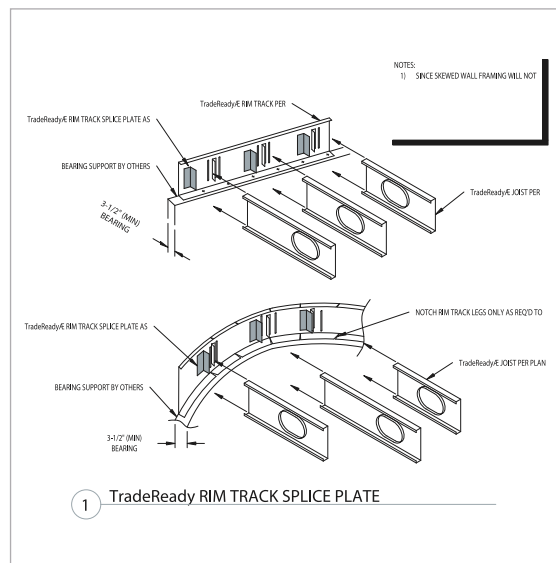
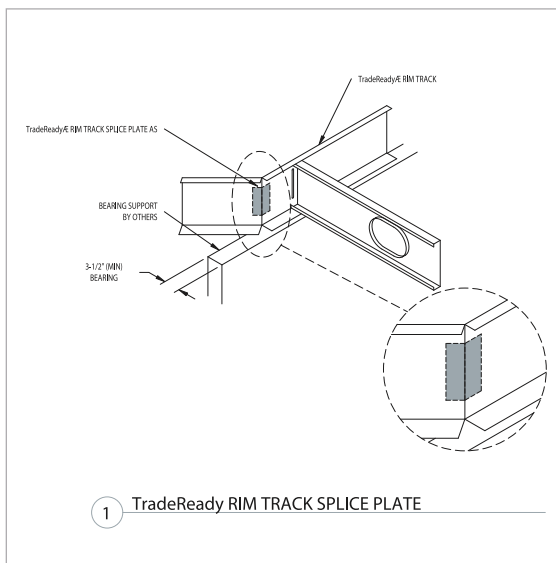


Field Skewable TradeReady® Rim Track Splice Plates (TDSP)				ALLOWABLE LOADS	
Product code	TDSP gauge	Framing material gauge	Framing material yield (ksi)	Tension F4 (lbs)	Shear F1 (lbs)
TDSP	18	20	33	560	437
		18 or thicker	33	832	650
TDSP	16	20	33	560	437
		18	33	832	650
		16 or thicker	33	1172	915
			50	1680	1312

**Notes:**

- 1 Screws shall be attached in the pre-drilled holes provided.
- 2 The allowable values for F1 and F4 are to be used only when the clip leg is attached to the CFS framing. The screw pattern must be as shown above. The capacity of the attachment to other materials and structures must be checked separately.
- 3 This table is intended for use by qualified engineers only. It is the responsibility of the engineer to verify that the tabulated values apply to a specific connection application.
- 4 The screw diameter must be 0.19" (min.) for #10 screws.
- 5 The ultimate screw shear strength must be a minimum of 1400 lbs for #10 screws.
- 6 Screws must be long enough so that at least three exposed threads are visible after installation.
- 7 Allowable loads have not been increased 33% for wind or seismic.
- 8 For connections made to 14 gauge (68mil), and 12 gauge (97mil), use the tabulated values for 16 gauge (54mil), 50ksi, when using TDSP (16 gauge). Similarly when TDSP (18 gauge) is used with thicker base materials, the values for 18 gauge x 33ksi are to be used.
- 9 It is the responsibility of the design professional to detail the drawings for proper clip attachment.
- 10 Contact ClarkDietrich at 888-437-3244 for technical assistance.

**Typical Construction Details**



Visit our CAD Library at [clarkdietrich.com](http://clarkdietrich.com) to view or download construction details in .dwg, .dxf, and .pdf formats.

## TRADEREADY® FLOOR JOIST BLOCKING

Quick and efficient system that prevents joist rotation and accommodates mechanical passing

TradeReady Floor Joist Blocking is one of the primary components that make up the TradeReady floor bracing system. TradeReady Floor Joist Blocking features a large extruded hole to accommodate HVAC, mechanical, plumbing and sprinkler runs.

TradeReady Floor Joist Blocking is pre-cut and formed to fit securely between the floor joists to prevent joist rotation. Designed to be used with joist up to 3" legs. Pre-punched holes in the connection legs are added for quick attachment to each floor joist. Structural blocking is an economical alternative to Tension Bracing (CDTB) or Diagonal Tension Strapping.

TradeReady Floor Joist Blocking is typically used in conjunction with a continuous row of TradeReady Structural Bridging (TDSB) that ties the floor system to the structure allowing bracing against lateral movement.

### ALTERNATIVE PRODUCTS

Tension Bracing

Diagonal Tension Strapping

### MATERIAL SPECIFICATIONS

**Gauge:** 16 gauge (54mil)

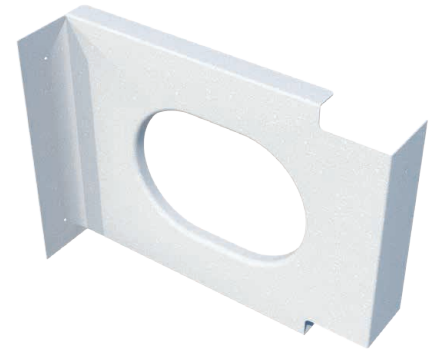
**Design Thickness:** 0.0566 inches

**Coating:** G90

**ASTM:** A1003

### INSTALLATION

Place the notched end of the TradeReady Blocking inside the open side of one floor joist. Attached each end of the TradeReady Floor Joist Blocking to each floor joist with (2) #10-16 screws in pre-punched holes.



### Floor Joist Blocking (JB)

Product code	Thickness		Joist Size (in)	Hole Size (in)	Packaging Pcs./Ctn
	Mils (Gauge)	Design thickness (in)			
725JB12	54mil (16ga)	0.0566	7-1/4	4-1/2" x 7"	10
800JB12			8	4-1/2" x 7"	
925JB12			9-1/4	6-1/2" x 9"	
1000JB12			10	6-1/2" x 9"	
1125JB12			11-1/4	6-1/2" x 9"	
1200JB12			12	6-1/2" x 9"	
1400JB12			14	6-1/2" x 9"	
725JB16			7-1/4	4-1/2" x 7"	
800JB16			8	4-1/2" x 7"	
925JB16			9-1/4	6-1/2" x 9"	
1000JB16			10	6-1/2" x 9"	
1125JB16			11-1/4	6-1/2" x 9"	
1200JB16			12	6-1/2" x 9"	
1400JB16			14	6-1/2" x 9"	
725JB24			7-1/4	4-1/2" x 7"	
800JB24			8	4-1/2" x 7"	
925JB24			9-1/4	6-1/2" x 9"	
1000JB24			10	6-1/2" x 9"	
1125JB24			11-1/4	6-1/2" x 9"	
1200JB24			12	6-1/2" x 9"	
1400JB24			14	6-1/2" x 9"	

# TRADEREADY® STRUCTURAL BRIDGING

Pre-cut structural blocking that installs easily to the underside of the joists to prevent joist rotation.

TradeReady® Structural Bridging is the third component of the TradeReady steel floor system. Pre-punched for quick attachment, structural blocking is pre-cut to fit securely between the underside of the floor joists to prevent joist rotation. Structural blocking is an economical alternative to cross bracing, X-bracing or strapping.

**CAUTION:** In order to prevent joist rolling, the TDSB blocking must be tied into the structure or otherwise braced against lateral movement.

**NOTE:** TDSB blocking is not required if sheathing is applied to the joists top and bottom.

### MATERIAL SPECIFICATIONS

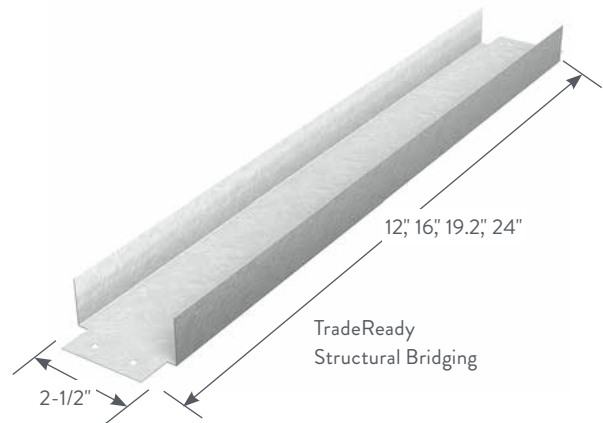
- Gauge:** 18 gauge (43mil)
- Design Thickness:** 0.0451 inches
- Coating:** CP60 per ASTM C955
- ASTM:** A653/A653M, C955

### INSTALLATION

A continuous row of TradeReady structural blocking should be installed every 8' o.c. maximum and staggered for easy attachment. Blocking is secured to each joist flange using two #10 screws at each end.

### PRODUCT DIMENSIONS

- 2-1/2" x 12"
- 2-1/2" x 16"
- 2-1/2" x 19.2"
- 2-1/2" x 24"



### TradeReady® Structural Bridging (TDSB)

Product code	Thickness		Size (in)	Packaging Pcs./Bundle
	Mils (Gauge)	Design thickness (in)		
TDSB12	43mil (18ga)	0.0451	2-1/2 x 12	10
TDSB16	43mil (18ga)	0.0451	2-1/2 x 16	10
TDSB19	43mil (18ga)	0.0451	2-1/2 x 19.2	10
TDSB24	43mil (18ga)	0.0451	2-1/2 x 24	10

## EASYCLIP™ QUICKTWIST™ WEB STIFFENER

Excellent reinforcement at critical load points to prevent web crippling.

ClarkDietrich EasyClip™ QuickTwist™ web stiffeners are used to provide reinforcement of joist webs to prevent crippling. Web reinforcement is often required by design to enhance the load capacity of joists. The unique design of QTWS allows the installer to easily insert the stiffener on the inside of the joist *after* the joist is installed. This stiffener eliminates the need to pre-insert traditional web stiffeners prior to joist installation. The one-piece assembly is easily rotated in-place for a tight fit.

### PRODUCT DIMENSIONS

3-1/2" x 6"-14" x 1-1/4"

6" x 6"-14" x 1-1/4"

### MATERIAL SPECIFICATIONS

**Gauge:** 12 gauge (97mil)

**Design Thickness:** 0.1017 inches

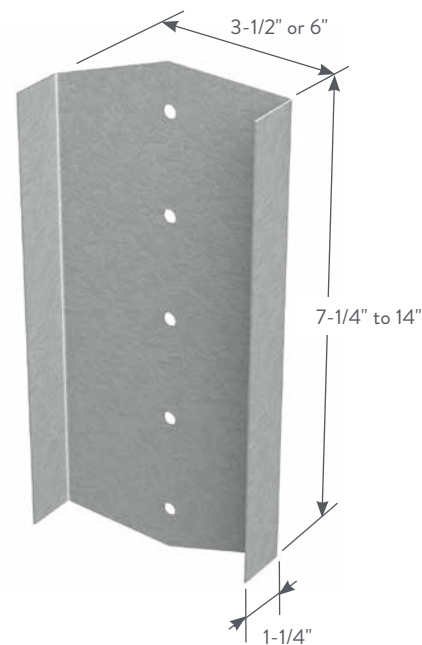
**Coating:** G90

**Yield Strength:** 50ksi

**ASTM:** A653/A653M

### INSTALLATION

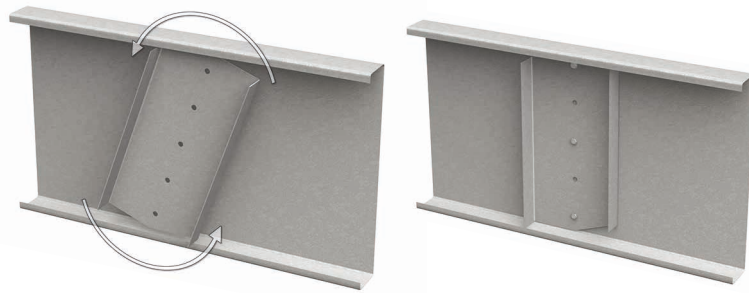
The unique design of the EasyClip QuickTwist web stiffener allows it to be easily rotated in-place for a tight fit between flanges. The web stiffener shall be secured to the web of the joist with (3) #10-16 screws. Screws shall be driven through the top, bottom and middle prepunched holes as shown in the illustrations.



### EasyClip™ QuickTwist™ Web Stiffeners (QTWS)

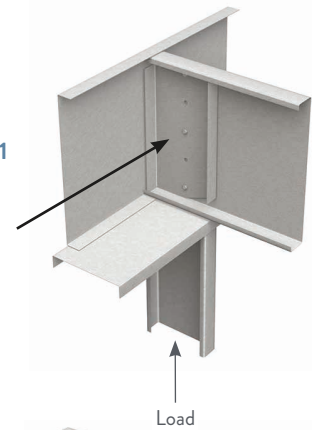
Product code	Size (in) width	Thickness		Size* (in) length	Packaging
		Mils (Gauge)	Design thickness (in)		
QTWS	3-1/2	97mil (12ga)	0.1017	6	Dependent on order quantity
				7-1/4	
				8	
				9-1/4	
				10	
				11-1/4	
				12	
QTWS	6	97mil (12ga)	0.1017	14	Dependent on order quantity
				6	
				7-1/4	
				8	
				9-1/4	
				10	
				11-1/4	
12					
				14	

\*Dimension is nominal size. Actual product is shorter to fit inside joist.



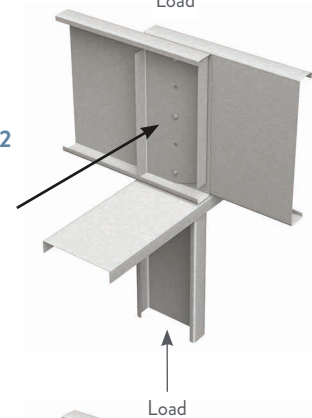
**CONDITION 1**

(3) #10-16 screws, top, bottom, and middle holes



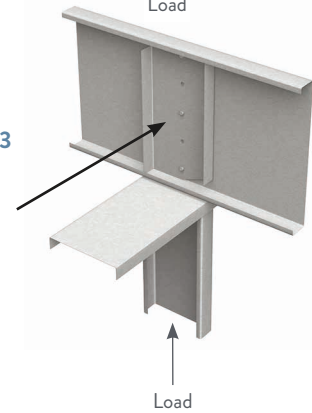
**CONDITION 2**

(3) #10-16 screws, top, bottom, and middle holes



**CONDITION 3**

(3) #10-16 screws, top, bottom, and middle holes



**QTWS Allowable Web Crippling Loads (lbs)**

Joist size (in)	Joist Mills (gauge)	F <sub>y</sub> (ksi)	3-1/2" Web Stiffener			6" Web Stiffener		
			Cond. 1	Cond. 2	Cond. 3	Cond. 1	Cond. 2	Cond. 3
7.25	43 (18)	33	5,360	5,781	5,659	5,932	6,403	6,265
		50	5,457	6,155	5,924	6,042	6,817	6,558
	54 (16)	33	5,574	6,632	6,282	6,177	7,351	6,959
		50	5,615	6,761	6,346	6,220	7,482	7,021
	68 (14)	33	5,813	7,550	6,921	6,447	8,359	7,660
		50	6,074	8,524	7,559	6,733	9,401	8,340
97 (12)	33	6,509	10,222	8,759	7,224	11,267	9,659	
	50	5,350	5,752	5,645	5,920	6,370	6,249	
8	43 (18)	33	5,443	6,116	5,905	6,027	6,773	6,537
		50	5,553	6,573	6,253	6,153	7,285	6,926
	54 (16)	33	5,596	6,708	6,320	6,200	7,424	6,992
		50	5,786	7,470	6,882	6,416	8,270	7,617
	68 (14)	33	6,045	8,438	7,516	6,700	9,307	8,293
		50	6,465	10,092	8,694	7,174	11,124	9,588
97 (12)	33	5,334	5,707	5,623	5,902	6,320	6,224	
	50	5,422	6,056	5,875	6,002	6,706	6,503	
9.25	54 (16)	33	5,521	6,481	6,208	6,116	7,182	6,876
		50	5,568	6,626	6,279	6,167	7,332	6,947
	68 (14)	33	5,742	7,345	6,820	6,366	8,132	7,548
		50	5,999	8,304	7,450	6,649	9,159	8,220
	97 (12)	33	6,396	9,888	8,594	7,096	10,900	9,477
		50	5,410	6,021	5,858	5,988	6,667	6,484
10	54 (16)	33	5,503	6,429	6,182	6,095	7,124	6,847
		50	5,552	6,579	6,256	6,148	7,280	6,922
	68 (14)	33	5,718	7,275	6,785	6,338	8,053	7,510
		50	5,973	8,228	7,412	6,619	9,076	8,179
	97 (12)	33	6,356	9,773	8,537	7,052	10,773	9,415
		50	5,391	5,967	5,831	5,966	6,606	6,454
11.25	54 (16)	33	5,474	6,347	6,141	6,062	7,032	6,802
		50	5,526	6,505	6,220	6,119	7,198	6,881
	68 (14)	33	5,679	7,163	6,730	6,294	7,929	7,448
		50	5,932	8,108	7,353	6,573	8,943	8,114
	97 (12)	33	6,294	9,590	8,447	6,981	10,573	9,316
		50	5,380	5,936	5,816	5,954	6,571	6,437
12	54 (16)	33	5,457	6,300	6,118	6,043	6,979	6,775
		50	5,511	6,463	6,199	6,102	7,151	6,858
	68 (14)	33	5,657	7,099	6,699	6,268	7,858	7,413
		50	5,908	8,039	7,319	6,547	8,867	8,076
	97 (12)	33	6,258	9,486	8,395	6,941	10,458	9,259
		50	5,474	6,356	6,146	6,060	7,033	6,800
14	68 (14)	33	5,601	6,937	6,619	6,204	7,678	7,325
		50	5,849	7,865	7,233	6,480	8,677	7,982
	97 (12)	33	6,169	9,223	8,265	6,840	10,169	9,116

**Notes:**

- The tabulated values indicate the total allowable web crippling capacities of a ClarkDietrich joist of the listed size, stiffened with the QuickTwist web stiffener.
- The joist flanges must be fastened to the support at the bearing location.
- The 3-1/2" web stiffeners are to be used with bearing widths of 3-1/2" to 5-1/2" in the direction of the joist. The 6" web stiffeners are to be used with bearing widths 6" and greater, in the direction of the joist. A minimum-bearing dimension of 3" in the direction perpendicular to the joist is assumed.
- Use (3) #10 screws to attach the QuickTwist web stiffener to the joist. Drive screws through the top, bottom, and middle prepunched holes.
- This table is intended for use by qualified engineers only. It is the responsibility of the engineer to verify that the QuickTwist web stiffener configuration and tabulated values apply to a specific web crippling application.
- Contact ClarkDietrich at 888-437-3244 for technical assistance.

## EASYCLIP™ E-SERIES™ SUPPORT CLIP

Long leg accommodates greater standoff for rigid connections.

ClarkDietrich EasyClip™ E-Series™ support clips are primarily used for rigid standoff connections. The 4" wide leg provides extra length to achieve standoff connections up to 3". The EasyClip E-Series support clips are also commonly used in bypass wall conditions, a variety of floor framing applications including solid and ladder blocking attachments and joist-to-joist connections, and to secure rafter framing to the primary structure. Available in a variety of lengths and gauges, these clips are prepunched for faster and more accurate fastener placement.

### ALTERNATIVE PRODUCTS

Uni-Clip™

EasyClip™ D-Series™ Anchor Clip

EasyClip T-Series™ Tall Anchor Clip

SwiftClip™ LE-Series™ Support Clip

### PRODUCT DIMENSIONS

1-1/2" x 4" x 3"

1-1/2" x 4" x 5"

1-1/2" x 4" x 7"

1-1/2" x 4" x 9"

1-1/2" x 4" x 11"

### MATERIAL SPECIFICATIONS

**Gauge:** 16 gauge (54mil)

**Design Thickness:** 0.0566 inches

**Gauge:** 14 gauge (68mil)

**Design Thickness:** 0.0713 inches

**Gauge:** 12 gauge (97mil)

**Design Thickness:** 0.1017 inches

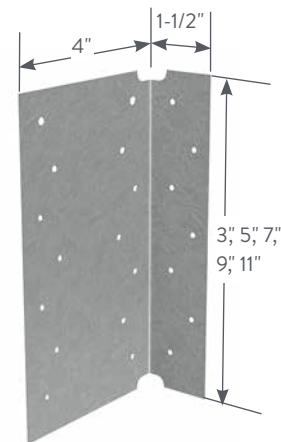
**Coating:** G90

**Yield Strength:** 50ksi

**ASTM:** A653/A653M

### INSTALLATION

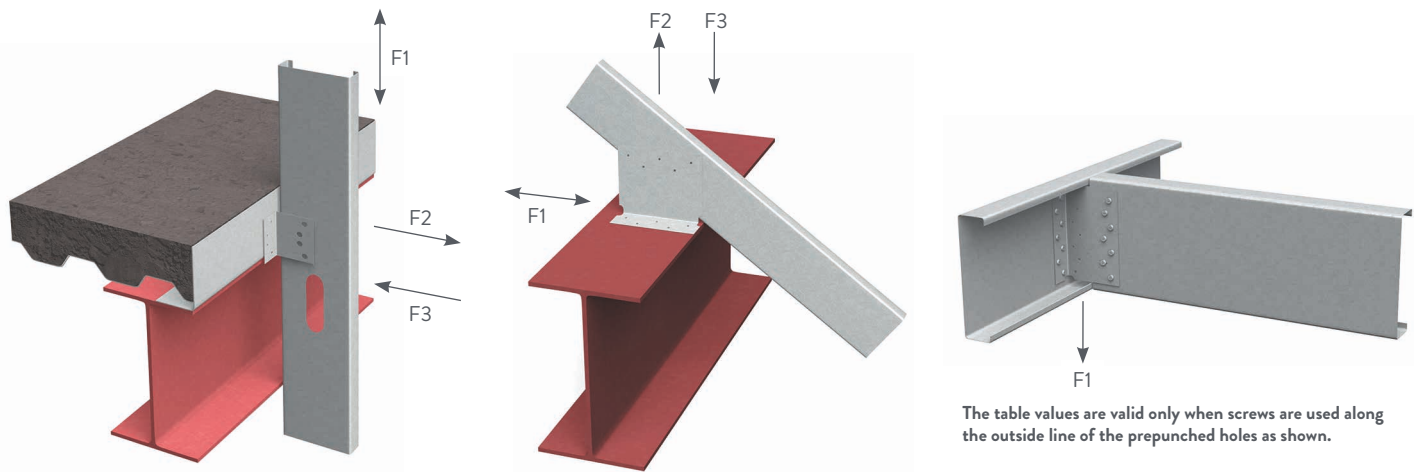
EasyClip E-Series support clips are attached to the cold-formed steel (CFS) framing members using #10 minimum self-drilling screws driven through the clip holes into the steel framing. When not filling all holes, install fasteners symmetrically starting at the top and bottom edges and move toward the center of the clip. Clip can also be welded to the CFS framing. Connections to the building frame can be made with powder-actuated fasteners, drill-in concrete anchors or welding. When using the tabular values for a welded clip, provide a full weld to the structure, top to bottom, along the outside of the clip. A 3/4" minimum weld on the outside edge of the 1-1/2" leg is also required to control warping or to hold the clip in place before final welding.



EasyClip E-Series  
Support Clip

### EasyClip™ E-Series™ Support Clips

Product code	Thickness		Size (in)	Packaging Pcs./Bucket
	Mils (Gauge)	Design thickness (in)		
E543	54mil (16ga)	0.0566	4 x 1-1/2 x 3	100
E545	54mil (16ga)	0.0566	4 x 1-1/2 x 5	100
E547	54mil (16ga)	0.0566	4 x 1-1/2 x 7	100
E549	54mil (16ga)	0.0566	4 x 1-1/2 x 9	50
E541	54mil (16ga)	0.0566	4 x 1-1/2 x 11	50
E683	68mil (14ga)	0.0713	4 x 1-1/2 x 3	100
E685	68mil (14ga)	0.0713	4 x 1-1/2 x 5	100
E687	68mil (14ga)	0.0713	4 x 1-1/2 x 7	80
E689	68mil (14ga)	0.0713	4 x 1-1/2 x 9	50
E681	68mil (14ga)	0.0713	4 x 1-1/2 x 11	50
E973	97mil (12ga)	0.1017	4 x 1-1/2 x 3	50
E975	97mil (12ga)	0.1017	4 x 1-1/2 x 5	50
E977	97mil (12ga)	0.1017	4 x 1-1/2 x 7	50
E979	97mil (12ga)	0.1017	4 x 1-1/2 x 9	50
E971	97mil (12ga)	0.1017	4 x 1-1/2 x 11	40



The table values are valid only when screws are used along the outside line of the prepunched holes as shown.

### E-Series™ Support Clips Allowable Clip Capacities (lbs)

USING #10-16 SELF-DRILLING SCREWS

Product code	No. of screws to steel framing	Stud Thickness and Yield Strength								
		20ga (33mil) 33ksi			18ga (43mil) 33ksi			16ga (54mil) 50ksi		
		F1	F2	F3	F1	F2	F3	F1	F2	F3
E543	3	101 (101)	210 (531)	507	150 (150)	210 (788)	507	266 (155)	210 (1195)	507
E545	2	176 (176)	354 (354)	354	261 (261)	371 (525)	525	463 (453)	371 (933)	811
	5	251 (251)	371 (885)	885	372 (372)	371 (1313)	912	625 (479)	371 (2105)	912
E547	4	380 (380)	531 (708)	708	564 (564)	531 (1050)	1050	1002 (970)	531 (1867)	1347
	7	455 (455)	531 (1239)	1239	675 (675)	531 (1838)	1318	1169 (960)	531 (3015)	1318
E549	4	477 (477)	692 (708)	708	707 (707)	692 (1050)	1050	1257 (1257)	692 (1867)	1753
	9	706 (706)	692 (1593)	1593	1048 (1048)	692 (2363)	1724	1862 (1576)	692 (3925)	1724
E541	6	727 (727)	852 (1062)	1062	1079 (1079)	852 (1576)	1576	1918 (1918)	852 (2800)	2053
	11	995 (995)	852 (1947)	1947	1476 (1476)	852 (2889)	2130	2623 (2301)	852 (4835)	2130
E683	3	101 (101)	333 (531)	531	150 (150)	333 (788)	788	266 (196)	333 (1400)	1011
E685	2	176 (176)	354 (354)	354	261 (261)	525 (525)	525	463 (463)	587 (933)	933
	5	251 (251)	587 (885)	885	372 (372)	587 (1313)	1313	661 (602)	587 (2333)	1817
E687	4	380 (380)	708 (708)	708	564 (564)	841 (1050)	1050	1002 (1002)	841 (1867)	1867
	7	455 (455)	841 (1239)	1239	675 (675)	841 (1838)	1838	1200 (1200)	841 (3267)	2625
E689	4	477 (477)	708 (708)	708	707 (707)	1050 (1050)	1050	1257 (1257)	1095 (1867)	1867
	9	706 (706)	1095 (1593)	1593	1048 (1048)	1095 (2363)	2363	1862 (1862)	1095 (4200)	3434
E681	6	727 (727)	1062 (1062)	1062	1079 (1079)	1349 (1576)	1576	1918 (1918)	1349 (2800)	2800
	11	995 (995)	1349 (1947)	1947	1476 (1476)	1349 (2889)	2889	2623 (2623)	1349 (5133)	4244
E973	3	101 (101)	531 (531)	531	150 (150)	679 (788)	788	266 (266)	679 (1400)	1400
E975	2	176 (176)	354 (354)	354	261 (261)	525 (525)	525	463 (463)	933 (933)	933
	5	251 (251)	885 (885)	885	372 (372)	1196 (1313)	1313	661 (661)	1196 (2333)	2333
E977	4	380 (380)	708 (708)	708	564 (564)	1050 (1050)	1050	1002 (1002)	1713 (1867)	1867
	7	455 (455)	1239 (1239)	1239	675 (675)	1713 (1838)	1838	1200 (1200)	1713 (3267)	3267
E979	4	477 (477)	708 (708)	708	707 (707)	1050 (1050)	1050	1257 (1257)	1867 (1867)	1867
	9	706 (706)	1593 (1593)	1593	1048 (1048)	2229 (2363)	2363	1862 (1862)	2229 (4200)	4200
E971	6	727 (727)	1062 (1062)	1062	1079 (1079)	1576 (1576)	1576	1918 (1918)	2746 (2800)	2800
	11	995 (995)	1947 (1947)	1947	1476 (1476)	2746 (2889)	2889	2623 (2623)	2746 (5133)	5133

**Notes:**

**Screw Capacity Notes:**

- The tabulated value indicates the number of screws in a single clip leg attached to the cold-formed steel (CFS) framing.
- Screws shall be attached in a symmetric manner, starting at the outside holes. See screw options on opposite page and above for examples.
- The allowable values for F1 are based only on the shear capacity of the 4" clip leg attached to the CFS framing. The capacity of the attachment to other materials and structures must be checked separately.
- The allowable values for F2 assume mechanical fasteners are attached to the structure using the 1-1/2" leg, and are along the vertical centerline of the clip leg. Mechanical fasteners to other materials and structures must be checked separately.
- This table is intended for use by qualified engineers only. It is the responsibility of the engineer to verify that the tabulated values apply to a specific connection application.
- When clips have combinations of F1, F2, and F3, use a linear interaction for combinations of F1 and F3, and a squared interaction for combinations of F1 and F2.
- The screw diameter must be 0.19" (min) for #10 screws.
- The ultimate screw shear strength must be a minimum of 1400 lbs for #10 screws.

- Screws must be long enough so that at least three exposed threads are visible after installation.

10 Allowable loads have not been increased 33% for wind or seismic.

11 For connections made to 14ga (68mil) and 12ga (97mil), use the tabulated values for 16ga (54mil), 50ksi.

12 Contact ClarkDietrich Technical Services at 888-437-3244 for assistance.

**Weld Capacity Notes:**

- F1 and F2 values in parentheses are maximum shear and tension capacities when the clips are welded to the base structure (min 3/16" — 36ksi).
- Listed weld capacities are computed assuming an E70XX welding rod or wire.
- The clips are to be welded to the structure along the back corner along the complete length of the clip. When secondary welds are used to hold the clip in place, they are not used in capacity calculations.

## COMMERCIAL STRAPPING

Multipurpose pre-punched commercial coil stock used for bracing, bridging or tension strapping.

Coil Strapping is made in a variety of widths, each with a unique layout of pre-punched holes for a variety of fastening options to meet different application requirements.

### PRODUCT DIMENSIONS

- 1" x 250'
- 1-1/2" x 250'
- 2" x 150'
- 2-1/2" x 150'
- 3" x 100'

### MATERIAL SPECIFICATIONS

**Material:** 50ksi, G60  
**Gauge:** 20 gauge (33mil)  
**Design Thickness:** 0.0346 inches  
**ASTM:** A1003, A653

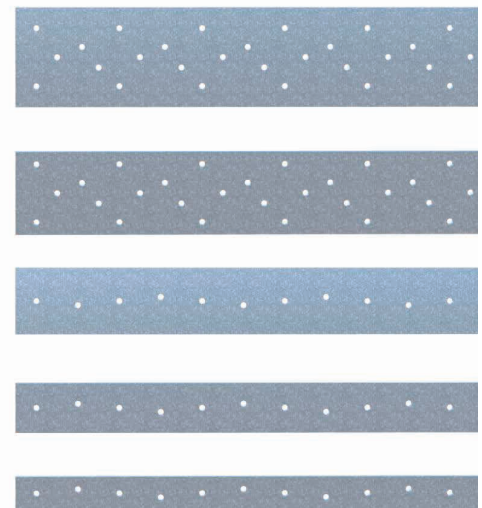
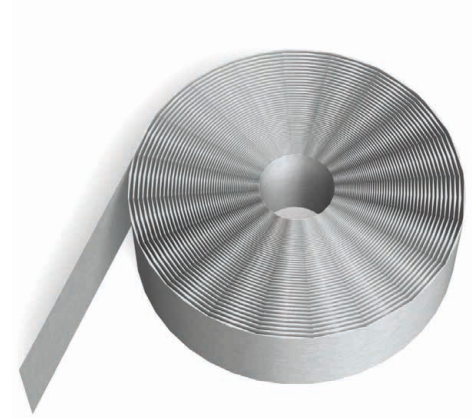
**Material:** 50ksi, G90 (Z275) hot-dipped galvanized  
**Gauge:** 18 gauge (43mil)  
**Design Thickness:** 0.0451 inches  
**ASTM:** A1003, A653

### TYPICAL APPLICATIONS:

- Horizontal strap lateral bracing for wall studs
- Strap bridging for bottom of floor joists
- Tension strapping for shear wall x-bracing

### FEATURES AND BENEFITS:

- Packaged for easy grab and go on jobsite
- Various lengths to aid in quicker installation
- Pre-punched holes to speed up installation and improve overall installation costs (see EOR for all connections)
- Tension Load Values available



### Commercial Strapping (CS)

Product code	Thickness	Width	Coil length
CS1-250-33	33mil (20ga)	1 inch	250 ft
CS1-250-43	43mil (18ga)	1 inch	250 ft
CS1.5-200-33	33mil (20ga)	1.5 inch	200 ft
CS1.5-200-43	43mil (18ga)	1.5 inch	200 ft
CS2-150-33	33mil (20ga)	2 inch	150 ft
CS2-150-43	43mil (18ga)	2 inch	150 ft
CS2.5-150-33	33mil (20ga)	2.5 inch	150 ft
CS2.5-100-43	43mil (18ga)	2.5 inch	100 ft
CS3-100-33	33mil (20ga)	3 inch	100 ft
CS3-100-43	43mil (18ga)	3 inch	100 ft



## INSTALLATION

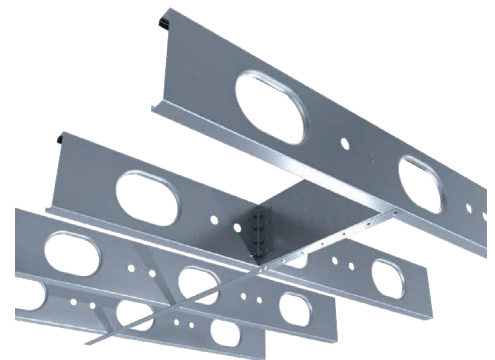
### Horizontal strap lateral bracing for wall studs

Lateral bracing consists of a field-cut stud or track for solid blocking and steel strap bracing on both flanges of the studs. Solid blocking is placed at each end of the wall, adjacent to wall openings and 8' o.c. maximum. The blocking is attached to each adjacent stud via EasyClip™ E- or S- Series™ clips, or when a track is used, the flanges are cut, the web bent and a minimum 4" overlap is used to secure the track block to the studs. Strap bracing, 2" wide and 20ga (33 mil) minimum, is fastened to each solid block and stud flange.



### Strap bridging for bottom of floor joists

Spacing of bridging must be calculated based on the required strength. In general, bridging is installed at a maximum of 8' o.c. spacing perpendicular to the joists. For example, an 18' joist span would require two bridging runs at 6' o.c. spacing. Where the sub-floor or decking does not provide lateral support, strap must also be installed on the top flange of the joist. Install immediately after joists are erected and before construction loads are applied. Solid blocking is field cut from track or joist sections.



### Tension strapping for shear wall x-bracing

Straps are either attached directly to the compression studs or are attached via Gusset Plates. Compression studs must be anchored to the foundation, normally with ClarkDietrich Holdowns. For multi-story construction, the uplift loads are extremely high. It is not uncommon to require 20,000 to 40,000 pounds of uplift force at these connections. Since ClarkDietrich Holdowns are not designed to resist this magnitude of force, it is recommended that embedded plates be installed prior to pouring the concrete foundation. A heavy steel assembly is then welded to the embedded plate and to the compression studs.

Caution: Racking loads are first transferred to the roof or floor decking and then to the shearwalls (X-bracing). The X-bracing then relies on a proper foundation to resist uplift and shear forces. In order for the system to function properly, the load path from the roof or floor deck to the shearwalls to the foundation must be complete. This normally requires additional bracing, blocking, track and rim splices, drag struts, uplift anchors and heavy-duty foundations.



## INSTALLATION

### IN THE FIELD

#### Installing the ClarkDietrich TradeReady® Steel Floor System

1. Check material against cut list.
2. Check joist layout against plumbing and HVAC requirements.
3. Install TradeReady® Rim Track. Set first tab on layout, subsequent rims are butted together continuing the layout.
4. Build / install girders.
5. Set joist across work area. *Note the joist orientation holes should line up.*
6. Install any required web stiffeners or squash blocks prior to setting joist as per plan when possible. Attach joist to intermediate bearing locations.
7. Rotate hard side of joist to tab and screw attach through pre-punched tab holes (Fig.1).
8. Attach joist to intermediate bearing locations.
9. Install temporary bracing as needed.
10. Install blocking/bridging and solid blocking as required.
11. Attach sub flooring – glue over joist, rim and blocking and screw attach sheathing as per details.

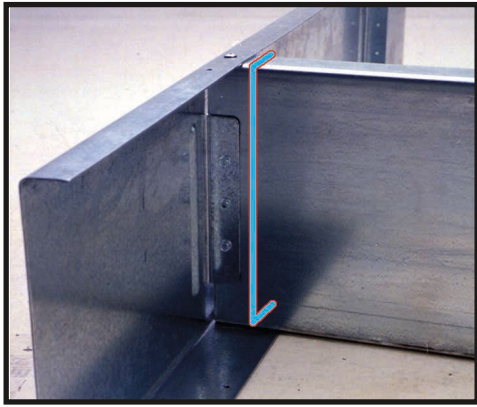


Fig 1: Rim Tab to Hard Side of Joist Only.

## INSTALLATION NOTES

1. All framing components shall be cut squarely for attachment to perpendicular members or as required on angular fit against abutting members. Members shall be held positively in place until properly fastened.
2. Temporary bracing shall be provided and remain in place until the structure is completely stabilized. Design of temporary bracing is not the responsibility of ClarkDietrich Building Systems.
3. All field cutting of members must be done by sawing, plasma cutting or shearing. Torch cutting of cold-formed members is unacceptable.
4. It is the responsibility of the contractor to assemble the floor system in such a way that the extruded holes align for mechanical runs and to ensure that extruded holes do not occur within 12" of a bearing point due to field cutting.
5. No splices in studs, joists, or other load carrying members may be made without prior engineering review and specific details for any such splice(s).
6. If additional holes are required, contact a licensed professional engineer for guidance before cutting.
7. Mechanical bridging, spaced at the intervals described herein, shall be installed prior to the attachment of sheathing materials.
8. Installation of sheathing, wallboard or any other collateral material shall be performed in accordance with the product manufacturer's specifications, the current ASTM standard and/or guidelines outlined in the contract documents.
9. For all tracks used in composite members such as beams and girders, the track must be installed as a single piece, no splicing permitted, unless otherwise noted.
10. When support clips are used to attach a component to the primary structure, the support clip is to be fastened to the primary structure first. Then, the component should be brought to bear on the structure, and then fastened to the support clip.
11. Support clips/hangers shall be installed per manufacturers instructions.

## GENERAL NOTES

1. Contents of this Design Guide show the intended application of ClarkDietrich Building Systems TradeReady® Floor Joist framing components and accessories. Framing erector is to refer to the project contract documents for additional construction assembly requirements. The substitution of any other material deems this information null and void.
2. Details shown are for common and general applications. They are for design reference only. All conditions shall be verified by a design professional prior to erection.
3. The contents of this Design Guide are subject to the review and approval of the Owner's Structural Engineer and Architect prior to erection. Material selections and connection details shown may differ from those shown in the contract documents. The framing erector should not order material before receiving shop drawing approval from the project officials.
4. Adequacy of the primary structure for loads imposed by the cold-formed framing system is not the responsibility of ClarkDietrich Building Systems.
5. For specific requirements and warranty information on systems or materials connected and appurtenant to the cold-formed steel framing including windows, caulking and flashings, refer to manufacturer's data. ClarkDietrich Building Systems assumes no responsibility for the proper construction or function of the total architectural assembly.
6. Conditions and or sections encircled may require special review by the project architect and/ or structural engineer. Additional project detail information and verification of conditions may be required.
7. The design of the cold-formed framing is performed in accordance with the AISI "Specification for the Design of Cold-Formed Steel Structural Members".
8. Framing analysis assumes that the sheathing is attached to each floor joist, solid block, and rim track. Framing analysis is limited to the uniform distribution of load to the joist and does not include review of the effects of local forces.
9. This Design Guide does not take precedence over the contract documents with regard to minimum yield strength, gauge, web depth, flange width or stud spacing, unless approved by the Engineer of Record (E.O.R.).
10. Calculations and details included in this Design Guide do not take into consideration the overall stability of structure. It is the responsibility of the Structural Engineer of Record to design the shear strapping and/or determine the allowable resistance of the building diaphragm to maintain overall stability of the structure.
11. The information herein is an aid in the general construction of ClarkDietrich Building Systems TradeReady Floor System and to facilitate the work that the framer, architect or the engineer of record must perform. They do not in any way imply the assumption of professional responsibility of the architect or of the engineer of record by ClarkDietrich Building Systems.
12. Maintain compliance with AISI Standard S202, "Code of Standard Practice for Cold-Formed Steel Structural Framing."

## MATERIAL NOTES

1. Properties used in this Design Guide are those published by ClarkDietrich Building Systems. No other material may be utilized.
2. All members 16 gauge and heavier shall be formed from steel corresponding to a type listed in the A.I.S.I. "Specification for the Design of Cold-Formed Steel Structural Members", with a minimum yield strength of 50 ksi unless specifically noted otherwise.
3. All 18 gauge and lighter members shall be formed from steel corresponding to a type listed in the A.I.S.I. "Specification for the Design of Cold-Formed Steel Structural Members" with a minimum yield strength of 33 ksi unless specifically noted otherwise.
4. Structural properties and capacities of steel framing components shall be in accordance with the A.I.S.I. "Specification for the Design of Cold-Formed Steel Structural Members".
5. All structural framing products shall be formed from steel possessing a coating corresponding to the minimum requirements of AISI S240.
6. When ClarkDietrich TradeReady® steel joist or track are to be used for a beam, girder, or header application, joist and track members shall have unpunched webs unless otherwise approved. It is the responsibility of the contractor to specify unpunched members when ordering materials.
7. All support clips and clip angles are 50 ksi, unless noted otherwise.

### JOBSITE SAFETY

**Always follow OSHA guidelines and safety requirements when they are applicable.**

1. DO NOT walk on unbraced joist. Injury may result.
2. DO NOT load floor until sheathing and bracing are complete. Place loads only over load bearing members.
3. Wear work gloves to protect hands from cuts and injuries when working with steel.
4. Safety goggles are recommended when cutting steel or when fastening members.
5. Cutting and welding galvanized steel can produce harmful fumes that can be hazardous to health and cause irritation to the respiratory system. Make sure all cutting and welding is done in a well-ventilated area.
6. Use caution when working with steel when wet. Steel members may be slippery and cause injuries if not properly handled.

### STORAGE AND HANDLING

**Proper storage and handling will ensure the structural integrity of steel framing members and components.**

1. TradeReady® Steel joist bundles should be stored level.
2. DO NOT open bundles until time of installation. Use care when handling bundles and individual components to prevent injury to handlers or damage by forklift or crane.
3. Twisting of steel joists, or applying loads to the joist when flat can damage the joist. Damaged steel joists should not be used.
4. Never handle steel joist flat. Beginning with the unloading process, and throughout all phases of construction, care must be taken to avoid lateral and torsional bending of joists, which can cause damage to the steel joists.

## GLOSSARY

<b>BLOCKING</b>	Solid block or piece of material placed between structural members to provide lateral bracing as in bridging and/or edge support for sheathing.
<b>BRIDGING</b>	Cross bracing or blocking placed between joists to provide lateral support.
<b>C-SHAPE</b>	A basic cold-formed steel shape used for structural framing members (such as joists). The name comes from the members "C" shaped cross-sectional configuration consisting of a web, flange and lip. It is also called a "C-section". Web depth measurements are taken to the outside of the flanges. Flange width measurements also use outside dimensions.
<b>CLIP ANGLE</b>	An L-shaped short piece of metal (normally with a 90-degree bend) typically used for connections.
<b>EXTRUDED HOLE</b>	A stiffened hole or opening in the web of a steel-framing member allowing for the installation of plumbing, electrical, and other utility installation. A extruded hole is made during the manufacturing process.
<b>FLANGE</b>	The part of a C-Shape or track that is perpendicular to the web.
<b>FLAT STRAP</b>	Sheet steel cut to a specified width without any bends. Typically used for bracing and transferring loads by tension.
<b>FLOOR JOIST</b>	A horizontal structural framing member that supports floor loads.
<b>HARD SIDE OF JOIST</b>	Plane at joist along the web.
<b>HEADER</b>	A horizontal built-up structural-framing member used for floor openings to transfer loads to adjacent framing members.
<b>JOIST ORIENTATION</b>	To assure that the holes line up across a given area of the foundation, the joist needs to be installed from the same beginning point.
<b>LIP</b>	The part of a C-Shape that extends from the flange at the open end. The lip increases the strength characteristics of the member and acts as a stiffener to the flange.
<b>LOADS, LIVE AND DEAD</b>	Dead loads are the weight of the walls, partitions, framing, floors, ceilings, roofs, and all other permanent construction entering into and becoming a part of a building. Live loads are transient and sustained loads usually created by people and furnishing, respectively.
<b>MULTIPLE SPAN</b>	The span made by a continuous member having intermediate supports.
<b>OPEN C SIDE OF JOIST</b>	Plane of joist along the flange of the open side of the "C".
<b>SPAN</b>	The clear horizontal distance between bearing supports.
<b>SINGLE SPAN</b>	The span made by one continuous structural member without any intermediate supports.
<b>SPAN DIRECTION</b>	The direction the joist lays across the foundation.
<b>STRUCTURAL SHEATHING</b>	The covering (e.g., plywood or oriented strand board) used directly over structural members (e.g., joists) to distribute loads, provide lateral stability to the framing members, and generally strengthen the assembly.
<b>WEB</b>	The part of a C-Shape or track that connects the two flanges.
<b>WEB CRIPPLING</b>	The localized permanent (inelastic) deformation of the web member subjected to concentrated load or reaction at bearing supports.
<b>WEB STIFFENER</b>	Additional material that is attached to the web to strengthen the member against web crippling. Also called a bearing or transverse stiffener.

## CODE APPROVALS AND PERFORMANCE STANDARDS

ClarkDietrich products meet or exceed these applicable performance standards.

### Structural Framing Standards for Joist & Rim only

AISI S100-16 w/S2-20 Supplement - North American Specification for the Design of Cold-Formed Steel Structural Members

AISI S240-15 - North American Standard for Cold-Formed Steel Structural Framing

Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)

Section A4 Corrosion Protection (Referencing ASTM A653/A653M)

Section A5 Products - Thickness, shapes, tolerances, identification

### UL® Underwriters Laboratories testing standard

UL 263 "Fire Tests of Building Construction and Materials"

See UL file number R21191 for full listing of UL Designs.

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ClarkDietrich Building Systems has prepared this literature with the utmost diligence and care for accuracy and conformance to standards.

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### LEED® Services

### BUILD GREEN with ClarkDietrich

ClarkDietrich is an active member of the U.S. Green Building Council and is committed to supplying quality products that are environmentally responsible. We are continually working to develop greener building products and sustainable business practices. ClarkDietrich steel framing helps contribute points toward LEED® certification. For more details contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED).



For ClarkDietrich iTools, scan the QR code.



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