

A Angle	5	HGLB Beam Seat	23	LU Hanger	48	THAI Hanger	62
A34 Anchor	5	HGLS Hanger	24	LUCZ Hanger	48	THGB Hanger	62
A35 Anchor	5	HGLT Hanger	24	LUS Hanger	48	THGBH Hanger	62
AB Post Base	5	HGLTV Hanger	24-25	MAB Mud sill Anchor	49	THGBHV Hanger	63
ABA Post Base	6	HGT Girder Tiedown	25	MBHA Masonry Hanger	49	THGBV Hanger	63
ABE Post Base	6	HGUS Hanger	25-26	MBHU Masonry Beam Hanger	49	THGQ Hanger	63
ABU Post Base	6	HH Hanger	26	MEG Hanger	50	THGQH Hanger	63
AC Post Cap	6	HHB Hanger	26	META Truss Anchor	50	THJA Hanger	63
ACE Post Cap	6	HHQ Holdown	26	MGT Girder Tiedown	50	THJU Hanger	63
B Hanger	7	HHUS Hanger	27	MIT Hanger	50-51	TJC37 Truss Connector	64
BA Hanger	7	HIT Hanger	27	MIU Hanger	51-52	TP Tie Plate	64
BC Base	8	HL Heavy Angle	27	MP Mending Plate	52	TS Twist Strap	64
BC Cap	8	HL Strap Tie	28	MST Strap Tie	52	TSBR Truss Spacer	64
BP Bearing Plate	8	HM Hurricane Tie	28	MSTA Strap Tie	52	TSF Truss Spacer	64
BT Brick Tie	8	HPA Purlin Anchor	28	MSTAM Strap Tie	53	TSP Stud Plate Tie	64
CB Column Base	9	HS Hurricane Tie	20	MSTC Strap Tie	53	TSS Truss Seat	64
CBSQ Column Base	9	HSA Strap	28	MSTCB Strap Tie	53	TWB Wall Bracing	65
CC Column Cap	9-10	HST Strap	28	MSTCM Strap Tie	53	U Hanger	65
CCCQ Column Cap	11	HSUL Hanger	29	MSTI Strap Tie	53	VB Knee Brace	65
CCQ Column Cap	10	HSUR Hanger	29	MTHM Hanger	53	VPA Connector	66
CCTQ Column Cap	11	HT Strap Tie	29	MTS Twist Strap	53	W1 Wedge	66
CMST Coiled Strap	11	HTC Heavy Truss Clip	29	MTSM Twist Strap	54	W Hanger	66
CMSTC Coiled Strap	11	HTS Twist Strap	29	MUS Hanger	54	WB Wall Bracing	66
CPS Composite Standoff	12	HSTM Twist Strap	30	Nails	54	WBC Wall Bracing	66
CS Coiled Strap	12	HTT Tension Tie	30	NCA Nailless Bridging	54	WCB Hanger	67-68
DJTZ Deck Tie	12	HTU Hanger	30	NS Nail Stopper	54	WNP Hanger	68
DPTZ Deck Tie	12	HU Hanger	30-35	NSP Nail Stopper	54	WP Hanger	68-69
DS Drywall Stop	12	HUC Hanger	30-35	O Angles	54	WPI Hanger	68-69
DSC Drag Strut Connector	12	HUCQ Hanger	35	O Strap Ties	54	WPU Hanger	70
DSP Double Stud Plate	13	HUCTF Hanger	36-37	PA Holdown	55	WT Wedge Form Tie	70
DTC Roof Truss Clip	13	HUS Hanger	36	PA Purlin Anchor	55	Z Clip	70
DTT2 Deck Tension Tie	13	HUSC Concealed Hanger	36	PAHD Holdown	55		
ECC Column Cap	13	HUSCTF Hanger	36	PAI Purlin Anchor	55		
ECCLQ Column Cap	14	HUSTF Hanger	36	PB Post Base	56		
ECCQ Column Cap	14	HUTF Hanger	36-37	PBS Post Base	56		
ECCU Column Cap	13	HUITF Hanger	35	PC Post Cap	56		
EG Hanger	15	HW Hanger	37	PF Hanger	56		
EPB Post Base	15	HWI Hanger	38	PFD Hanger	56		
EPC Post Cap	15	HWU Hanger	38-39	PGT Pipe Grip Tie	56		
F Hanger	16	ITS Hanger	39	PS Strap	57		
FB Fence Bracket	16	ITT Hanger	40	PSCL Sheathing Clip	57		
FC Framing Clip	16	IUS Hanger	41	PSPNZ Protective Plate	57		
FPBB44 E-Z Base	16	JB Hanger	41	RBC Roof Boundary Clip	57		
FPBM44E E-Z Mender	16	L Angle	42	RCWB Wall Bracing	57		
FPBS44 E-Z Spike	16	L Strap Tie	42	RFB Retrofit Bolt	57		
GA Angle	16	LB Hanger	42	RP6 Retro Plate	57		
GB Hanger	16	LBOLT Anchor Bolt	42	RPS Strap Tie	58		
GBC Gable Bracing	17	LBP Bearing Plate	42	RSP Stud Plate Tie	58		
GH Hanger	17	LBPS Bearing Plate	42	SA Strap	58		
GLB Beam Seat	17	LBV Hanger	43-44	SD Screw	58		
GLBT Beam Seat	18	LCB Column Base	44	SDS Screw	58		
GLS Hanger	18	LCC Lally Column Cap	44	S/HD Holdown	58		
GLT Hanger	18	LCE Post Cap	45	S/HTT Tension Tie	58		
GLTV Hanger	19	LEG Hanger	45	S/LTT Tension Tie	59		
H Hurricane Ties	20	LGT Girder Tiedown	45	SP Stud Plate Tie	59		
HB Hanger	20-21	LPCZ Post Cap	45	SPH Stud Plate Tie	59		
HCA Hinge Connector	21	LS Angle	45	SS Stud Shoe	59		
HCP Hip Corner Plate	21	LSCZ Stringer Hanger	45	SSP Single Stud Plate	59		
HCST Strap	21	LSSU Hanger	46	ST Strap Tie	59		
HCSTR Strap	21	LSTA Strap Tie	46	STC Roof Truss Clip	60		
HD Holdown	22	LSTHD Holdown	46	STHD Holdown	60		
HDB Holdown	22	LSTI Strap Tie	46	SUL Hanger	60		
HDQ Holdown	22	LSU Hanger	47	SUR Hanger	60		
HDU Holdown	22	LTA Truss Anchor	47	T Strap Tie	60		
HETA Truss Anchor	23	LTB Bridging	47	TA Staircase Angle	61		
HETAL Truss Anchor	23	LTHJA Hanger	47	TB Tension Bridging	61		
HFN Hanger	23	LTP Framing Anchor	47	TBE Truss Enhancer	61		
HGA Gusset Angle	23	LTS Twist Strap	47	TC Truss Connector	61		
HGAM Gusset Angle	23	LTT Tension Tie	48	THA Hanger	61-62		
HGB Hanger	23	LTTI Tension Tie	48	THAC Hanger	62		

**Company History**

USP has been committed to making pro-grade structural connectors for more than 50 years. In the course of those five-plus decades, we've seen a lot of changes in the way we do business and the way buildings are constructed. But, in all that time our passion and our level of commitment has remained rock solid. We know that every day trade professionals and homeowners alike are using our products to make something a little bit better than it needs to be. We like that because that's how we think, too.

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**About this Comparison**

These comparison tables were developed independently by *USP Structural Connectors®*. The information is intended for use by USP customers and is not intended as a warranty or guarantee, expressed or implied, as to the suitability or fitness of any product described for any particular use.

The USP load values shown in this comparison are from our current ICC-ES or IAPMO-ES code evaluation reports and are derived in accordance to the 2005 NDS® (National Design Specification for Wood Construction). The information contained in this edition supercedes information presented in previous versions of this comparison guide.

For comparative purposes, the allowable load values for Simpson products shown in this comparison were obtained from Simpson catalogs: *Wood Construction Connectors 2011-2012 (C-2011)*. These loads are reportedly based on the 2005 NDS® values. No effort has been made to determine agreement of Simpson catalog values to current Simpson code evaluation reports.

This comparison publication is not, and should not be considered a verification of the validity or a source of allowable load values for the listed products.

The reference numbers in this publication are for general application comparison only and should not be used as a substitution tool. The user is responsible to compare specific load values, fastener schedules, material specifications, and other factors to determine suitability of use for any particular product.

**Code Evaluations**

Most USP structural products listed in this catalog have been evaluated or are in the submittal stage for evaluation from ICC Evaluation Service (ICC-ES) formerly ICBO, BOCA, SBCCI or IAPMO Evaluation:

**ICC-ES ESR:**

ESR-1280, ESR-1465, ESR-1781, ESR-1831, ESR-1881, ESR- 2104, ESR-2761, ESR-2787.

**ICC-ES Legacy Reports:**

NER-505, NER-530, NER-608, ER-2039, ER-2725, ER-5321, 2031C.

**IAPMO-ES ER:**

ER-0200

Other code agencies may require specific reductions and limitations and may have different load values than those presented in this catalog. USP recommends consulting specific code evaluation reports or product acceptance criteria that govern in the applicable area. Any questions about current code listings should be directed to the Technical Assistance staff. USP continuously updates code reports to reflect new standards and requirements. Visit USP's Web Site, [www.USPconnectors.com/codereports.htm](http://www.USPconnectors.com/codereports.htm), or specific code agencies web sites for current listings.

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A ESR-2606						
Simpson Stock No.	DF / SP Design Load					
	F1				F2	F3
	100%	115%	125%	160%	160%	160%
A21	---	---	---	245	175	---

JA ESR-1781						
USP Stock No.	DF / SP Design Load					
	F1				F2	F3
	100%	115%	125%	160%	160%	160%
JA1	225	255	255	255	345	165

A ESR-2606					
Simpson Stock No.	Direction of Load	DF-L / SP Design Load			
		100%	115%	125%	160%
A23	F1	---	---	---	585
	F2	---	---	---	565
	F3	---	---	---	---

A ESR-2104					
USP Stock No.	Direction of Load	DF-L / SP Design Load			
		100%	115%	125%	160%
A3	F1	450	515	560	590
	F2	450	515	560	600
	F3	210	240	260	335

A No Code Listing			
Simpson Stock No.	DF-L / SP Design Load		
	Uplift		
	Nails 160%	Bolts 160%	
A24	---	---	
A311	---	---	

TDL ER-2039			
USP Stock No.	DF-L / SP Design Load *		
	Uplift		
	Nails 160%	Bolts 160%	
TDL5	895	1080	
TDL10	895	1080	

\*Design loads as listed in USP's 56th Edition Full Line Catalog

A34 ER-112				
A35 ER-112				
Simpson Stock No.	Direction of Load	DF-L / SP Design Load		
		100%	125%	160%
A34	F <sub>1</sub>	395	485	515
	F <sub>2</sub>	395	455	455
	F <sub>3</sub>	---	---	---
A35	A <sub>1</sub>	295	365	395
	E	295	365	395
	C <sub>1</sub>	210	210	210
	A <sub>2</sub>	295	365	380
	D	230	230	230
	C <sub>2</sub>	295	365	370
	F <sub>1</sub>	595	695	695
	F <sub>2</sub>	595	670	670
	F <sub>3</sub>	---	---	---

MP34 ESR-1781				
MPA1 ESR-1781				
USP Stock No.	Direction of Load	DF-L / SP Design Load		
		100%	125%	160%
MP34	F <sub>1</sub>	380	475	525
	F <sub>2</sub>	380	475	610
	F <sub>3</sub>	185	230	295
MPA1	A <sub>1</sub>	285	355	415
	B <sub>1</sub>	285	350	350
	C <sub>1</sub>	285	355	355
	A <sub>2</sub>	505	505	505
	B <sub>2</sub>	280	280	280
	C <sub>2</sub>	375	375	375
	F <sub>1</sub>	570	680	680
	F <sub>2</sub>	570	715	795
	F <sub>3</sub>	280	350	445

A No Code Listing			
Simpson Stock No.	Direction of Load	DF-L / SP Design Load	
		160%	
A33	F1	750	
	F2	330	
A44	F1	750	
	F2	295	
A66	---	---	
A88	---	---	

B No Code Listing			
BL No Code Listing			
USP Stock No.	Direction of Load	DF-L / SP Design Load	
		160%	
BL3	F1	---	
	F2	---	
BL4	F1	---	
	F2	---	
B66	---	---	
B88	---	---	

AB ESR-1622		
Simpson Stock No.	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
AB44	---	4065
AB44R	---	4065
AB46	---	4165
AB46R	---	4165
AB66	---	5335
AB66R	---	5335

PA ESR-1831		
USP Stock No.	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
PA44-DP	380	5135
PA44R	380	5135
PA46-DP	505	6285
PA46R	505	6285
PA66-DP	470	6950
PA66R	470	6950

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ABA			ESR-1622
Simpson Stock No.	DF-L / SP Design Load		Uplift 160% Bearing 100%
	Uplift		
	160%	100%	
ABA44	555	6000	
ABA46	700	9435	
ABA66Z	720	10665	

ABE			ESR-1622
Simpson Stock No.	DF-L / SP Design Load		Uplift 160% Bearing 100%
	Uplift		
	160%	100%	
ABE44	520	6665	
ABE46	810	7335	
ABE46R *	810	7335	
ABE66	900	12000	

\*Not listed in ESR-1622

ABU				ESR-1622
Simpson Stock No.	DF-L / SP Design Load			Uplift 160% Bearing 100%
	Uplift		Bearing	
	Nails	Bolts		
	160%	160%		
ABU44	2200	2160	6665	
ABU46	2300	2300	10335	
ABU66	2300	2300	12000	
ABU88	2320	--	24335	
ABU88R *	2320	--	24335	

\*Not listed in ESR-1622

AC				ESR-2604
Simpson Stock No.	DF-L / SP Design Load *			Uplift 160% F1 160% F2 160%
	Uplift			
	160%	160%	160%	
AC4 (Min)	1430	715	--	
AC4 (Max)	2500	1070	--	
AC4R (Min)	1430	715	--	
AC4R (Max)	2500	1070	--	
AC6 (Min)	1430	715	--	
AC6 (Max)	2500	1070	--	
AC6R (Min)	1430	715	--	
AC6R (Max)	2500	1070	--	

\*Design loads apply only when used in pairs

ACE				ESR-2604
Simpson Stock No.	DF-L / SP Design Load *			Uplift 160% F1 160% F2 160%
	Uplift			
	160%	160%	160%	
ACE4 (Min)	1070	715	--	
ACE4 (Max)	1785	1070	--	
ACE6 (Min)	1070	715	--	
ACE6 (Max)	1785	1070	--	

\*Design loads apply only when used in pairs

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PA(E)			ESR-1831
USP Stock No.	DF-L / SP Design Load		Uplift 160% Bearing 100%
	Uplift		
	160%	100%	
PA44E-DP	990	6775	
PA46E-DP *	825	13815	
PA66E-TZ	1060	16005	

\*Not listed in ESR-1831

PA(E)			ESR-1831
USP Stock No.	DF-L / SP Design Load		Uplift 160% Bearing 100%
	Uplift		
	160%	100%	
PA44E-DP	990	6775	
PA46E-DP *	825	13815	
PA46R	505	6285	
PA66E-DP	1060	16005	

\*Not listed in ESR-1831

PAU				ESR-1881
USP Stock No.	DF-L / SP Design Load			Uplift 160% Bearing 100%
	Uplift		Bearing	
	Nails	Bolts		
	160%	160%		
PAU44	2535	2265	6775	
PAU46	2535	2265	13815	
PAU66	2380	2265	16005	
PAU88	3185	--	24900	
PAU88R	3185	--	24900	

PBS				ESR-1781
USP Stock No.	DF-L / SP Design Load *			Uplift 160% F1 160% F2 160%
	Uplift			
	160%	160%	160%	
PBS44	2630	1730	1195	
PBS44	2630	1730	1195	
PBS44R	1755	1015	630	
PBS44R	1755	1015	630	
PBS66	2280	1850	1310	
PBS66	2280	1850	1310	
PBS66R	1845	1275	1010	
PBS66R	1845	1275	1010	

\*Design loads apply only when used in pairs

PBES				ESR-1781
USP Stock No.	DF-L / SP Design Load *			Uplift 160% F1 160% F2 160%
	Uplift			
	160%	160%	160%	
PBES44	1755	1015	630	
PBES44	1755	1015	630	
PBES66	1755	1275	1010	
PBES66	1755	1275	1010	

\*Design loads apply only when used in pairs

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<b>B</b>		ESR-1866			
<b>BA</b>		ESR-1866			
Simpson Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
B38	3800	3800	3800	1010	
B310	3800	3800	3800	1010	
B312	3800	3800	3800	1010	
B314	3800	3800	3800	1010	
B316	3800	3800	3800	1010	
BA48 (Min)	3435	3435	3435	265	
BA48 (Max)	3800	3800	3800	1170	
B48	3800	3800	3800	1010	
BA410 (Min)	3435	3435	3435	265	
BA410 (Max)	3800	3800	3800	1170	
B410	3800	3800	3800	1010	
BA412 (Min)	3435	3435	3435	265	
BA412 (Max)	3800	3800	3800	1170	
B412	3800	3800	3800	1010	
B414	3800	3800	3800	1010	
B416	3800	3800	3800	1010	
B610	3800	3800	3800	1010	
B612	3800	3800	3800	1010	
B614	3800	3800	3800	1010	
B616	3800	3800	3800	1010	

<b>BPH</b>		ESR-1831			
<b>HDO</b>		ESR-1781			
USP Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
HDO38	3605	3605	3605	755	
HDO310	4165	4165	4165	1150	
HDO312	4475	4475	4475	1150	
HDO314	4475	4475	4475	1315	
HDO316	4865	5010	5105	1535	
HDO48	3825	3825	3825	815	
HDO48	3825	3825	3825	815	
HDO48	3825	3825	3825	815	
BPH35925	3485	3485	3485	815	
BPH35925	3485	3485	3485	815	
HDO410	4565	4565	4565	1220	
BPH35112	3485	3485	3485	815	
BPH35112	3485	3485	3485	815	
HDO412	4880	5230	5465	1220	
HDO414	5175	5410	5410	1625	
HDO416	5475	5915	6210	1625	
HDO610	4565	4565	4565	1430	
HDO612	4880	5230	5465	1430	
HDO614	5175	5410	5410	1710	
HDO616	5475	5915	6210	1905	

<b>B</b>		ESR-1866					
<b>BA</b>		ESR-1866					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF / SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
BA1.81/11.88 (Max)	4715	4320	4500	3800	2665	1495	1170
BA1.81/11.88 (Min)	4015	3705	4005	3435	2665	1495	265
B1.81/16	4135	3355	4500	3640	2650	--	990
BA3.56/11.88 (Max)	4715	4320	4500	3800	2665	1495	1170
BA3.56/11.88 (Min)	4015	3705	4005	3435	2665	1495	265
BA3.56/14 (Max)	4715	4320	4500	3800	2665	1495	1170
BA3.56/14 (Min)	4015	3705	4005	3435	2665	1495	265
BA3.56/16 (Max)	4715	4320	4500	3800	2665	1495	1170
BA3.56/16 (Min)	4015	3705	4005	3435	2665	1495	265
B3.56/14	4135	3355	4500	3800	2650	--	1010
B3.56/16	4135	3355	4500	3800	2650	--	1010
B5.12/18	4135	3355	4500	3800	2650	--	1010
B5.12/20	4135	3355	4500	3800	2650	--	1010
B7.12/9.5	4135	3355	4500	3800	2650	--	1010
B7.12/11.88	4135	3355	4500	3800	2650	--	1010
B7.12/14	4135	3355	4500	3800	2650	--	1010
B7.12/16	4135	3355	4500	3800	2650	--	1010
B7.12/18	4135	3355	4500	3800	2650	--	1010
B7.12/20	4135	3355	4500	3800	2650	--	1010
B7.12/22	4135	3355	4500	3800	2650	--	1010
B7.12/24	4135	3355	4500	3800	2650	--	1010
B7.12/26	4135	3355	4500	3800	2650	--	1010
B7.12/28	4135	3355	4500	3800	2650	--	1010

<b>BPH</b>		ESR-1831					
<b>THO</b>		ESR-1781					
<b>PHXU</b>		ESR-2104					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF / SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
BPH17118	3340	3395	3395	3030	2245	--	625
BPH17118	3340	3395	3395	3030	2245	--	625
BPH1716	3340	3395	3395	3030	2245	--	625
BPH35118	3485	3510	3775	3485	3280	--	815
BPH35118	3485	3510	3775	3485	3280	--	815
BPH3514	3430	3510	3775	3430	3280	--	1140
BPH3514	3430	3510	3775	3430	3280	--	1140
BPH3516	3430	3510	3775	3430	3280	--	1140
BPH3516	3430	3510	3775	3430	3280	--	1140
BPH3514	3430	3510	3775	3430	3280	--	1140
BPH3516	3430	3510	3775	3430	3280	--	1140
THO25180-2	3535	4685	4685	4770	3520	2630	1175
THO25200-2	3535	4685	4685	4770	3520	2630	1175
BPH7195	3485	3510	3775	3485	3280	--	1220
BPH71118	3455	3515	3775	3455	3280	--	1220
BPH7114	3455	3515	3775	3455	3280	--	1220
BPH7116	3455	3515	3775	3455	3280	--	1220
BPH7118	3455	3515	3775	3455	3280	--	1220
BPH7120	3455	3510	3775	3455	3280	--	1220
BPH7122	3455	3510	3775	3455	3280	--	1220
BPH7124	3455	3510	3775	3455	3280	--	1220
PHXU7126	6650	5785	6650	5285	3590	--	1290
PHXU7128	6650	5785	6650	5285	3590	--	1290

## SIMPSON Strong-Tie Connectors®

BC ESR-2604			
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
BC4	980	1000	--
BC4R	980	1000	--
BC46	980	1000	--
BC6	1050	2000	--
BC6R	1050	2000	--
BC8	1800	2000	--

BC_0 No Code Listing			
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
BC40	510	735	--
BC40R	510	735	--
BC460	450	735	--
BC60	450	735	--
BC60R	450	735	--
BC80	450	735	--

BP No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	Plate Thickness	Bolt Diameter (Inches)
BP½	3/16	1/2
BP¾-2	3/16	5/8
BP¾	1/4	5/8
BP¾-3	3 ga	5/8
BP¾-3	3 ga	3/4
BP¾-3	3 ga	1/2
BP¾-3	3 ga	5/8
BP¾-3	3 ga	3/4

BT No ICC-ES or IAPMO-ES Code Listing	
Simpson Stock No.	
BTB	
BT-R100	

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C ESR-1280			
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
C44	1000	1225	1225
C44R	1000	1225	1225
C46	1000	1225	1225
C66	1295	2190	2190
C66R	1090	2190	2190
C88	1125	2525	2525

D ESR-1280			
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
D44-TZ	715	875	875
D44R	715	875	875
D46	715	1020	1095
D66	715	1020	1095
D66R	715	1020	1095
D88	715	1020	1095

BP No ICC-ES or IAPMO-ES Code Listing		
HBPS No ICC-ES or IAPMO-ES Code Listing		
USP Stock No.	Plate Thickness	Bolt Diameter (Inches)
BP12	3/16	1/2
BP582	3/16	5/8
BP58	1/4	5/8
BP583	1/4	5/8
BP343	1/4	3/4
HBPS12	1/4	1/2
HBPS58	1/4	5/8
HBPS34	1/4	3/4

WT No ICC-ES or IAPMO-ES Code Listing	
USP Stock No.	
WT22	
WT22-BMC	

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<b>CB</b>		ER-5708	
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%		
CB44	4200		
CB46	4200		
CB48	4200		
CB5-4.5	4200		
CB5-6	4200		
CB64 *	4200		
CB66	4200		
CB7 $\frac{1}{2}$ -4 *	6650		
CB7 $\frac{1}{2}$ -6 *	6650		
CB7 $\frac{1}{2}$ -7 *	6650		
CB68	4200		
CB7-6	6650		
CB7-7.5	6650		
CB7-9	6650		
CB7-10.5	6650		
CB86 *	6650		
CB88	6650		
CB9-6	6650		
CB9-7.5	6650		
CB9-9	6650		
CB9-10.5	6650		
CB1010	6650		
CB1012	6650		
CB1212	6650		

\*Not listed in ER-5708

<b>KCBQ</b>		No Code Listing	
USP Stock No.	DF-L / SP Design Load *		
	Uplift 160%		
KCBQ44	6870		
KCBQ46	6870		
KCBQ48	6870		
KCBQ5	6870		
KCBQ5	6870		
KCBQ64	6870		
KCBQ66	6870		
KCBQ71-4	6870		
KCBQ71-6	6870		
KCBQ71-7	6870		
KCBQ68	6870		
KCBQ7	6870		
KCBQ7	6870		
KCBQ7	6870		
KCBQ7	6870		
KCBQ86	6870		
KCBQ88	6870		
KCBQ9	6870		
KCBQ9	6870		
KCBQ9	6870		
KCBQ9	6870		
KCBQ1010	6870		
KCBQ1012	6870		
KCBQ1212	6870		

\*Design loads as listed in USP's 56th Edition Full Line Catalog

<b>CBSQ</b>		ER-5952	
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%	Bearing 100%	
CBSQ44-SDS2	5335	10975	
CBSQ46-SDS2	5335	14420	
CBSQ66-SDS2	6855	14420	

<b>CBSQ</b>		No ICC-ES or IAPMO Code Listing	
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%	Bearing 100%	
CBSQ44-TZ	6870	6775	
CBSQ46-TZ	6870	13815	
CBSQ66-TZ	6870	16005	

<b>CC</b>		ESR-2604	
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%	Bearing 100%	
CC31/4-4	3640	16980	
CC31/4-6	3640	19250	
CC44	1465	15310	
CC46	2800	24060	
CC48 *	2800	24060	
CC51/4-4	7530	26635	
CC51/4-6	7530	28190	
CC51/4-8	7530	37310	
CC64	4040	28586	
CC66	4040	30250	
CC68	4040	37810	
CC6-71/8 *	4040	37810	
CC74 *	7525	33490	
CC76	7525	37125	
CC77	7525	49140	
CC78	7525	49140	

\*Not listed in ESR-2604

<b>KCCQ</b>		ESR-1465	
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%	Bearing 100%	
KCCQ325-4	7140	21485	
KCCQ325-6	7140	21485	
KCCQ44	6675	24065	
KCCQ46	7140	24065	
KCCQ48	7140	24065	
KCCQ525-4	7390	41640	
KCCQ525-6	7390	41640	
KCCQ525-8	7390	41640	
KCCQ64	7140	37815	
KCCQ66	7140	37815	
KCCQ68	7140	37815	
KCCQ67X	7140	37815	
KCCQ74	7390	46405	
KCCQ76	7390	46405	
KCCQ77	7390	46405	
KCCQ78	7390	46405	

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CC			ESR-2604	
Simpson Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	CC71/8-4 *	7510		
CC71/8-6 *	7585	58500		
CC71/8-71/8 *	7585	57750		
CC71/8-8 *	7585	52500		
CC86	7440	41250		
CC88	7440	54600		
CC96	7515	48125		
CC98	7515	63700		
CC106	7515	52250		

\*Not listed in ESR-2604

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KCCQ			ESR-1465	
USP Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	KCCQ71-4 *	7390		
KCCQ71-6 *	7390	48125		
KCCQ71-71	7390	48125		
KCCQ71-8 *	7390	48125		
KCCQ86	7140	51565		
KCCQ88	7140	51565		
KCCQ96	7140	60155		
KCCQ98	7140	60155		
KCCQ106	7140	65315		

\*Not listed in ESR-1465

CCQ			ESR-2604	
Simpson Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	CCQ3-4SDS2.5	5680		
CCQ3-6SDS2.5	5680	19250		
CCQ44SDS2.5	5680	19020		
CCQ46SDS2.5	7145	24065		
CCQ48SDS2.5	7145	24065		
CCQ5-4SDS2.5	5680	26635		
CCQ5-6SDS2.5	7245	28190		
CCQ5-8SDS2.5	7245	31570		
CCQ64SDS2.5	5680	28585		
CCQ66SDS2.5	7145	30250		
CCQ68SDS2.5	7145	37815		
CCQ6-7.13SDS2.5 *	7145	37815		
CCQ74SDS2.5	5680	33490		
CCQ76SDS2.5	7245	37125		
CCQ77SDS2.5	7245	41580		
CCQ78SDS2.5	7245	41580		
CCQ7.1-4SDS2.5 *	5680	34730		
CCQ7.1-6SDS2.5 *	7245	38500		
CCQ7.1-7.1SDS2.5 *	7245	57750		
CCQ7.1-8SDS2.5 *	7245	52500		
CCQ86SDS2.5 *	7245	41250		
CCQ88SDS2.5 *	7245	51565		
CCQ96SDS2.5 *	7245	48125		
CCQ98SDS2.5 *	7245	53900		
CCQ106SDS2.5 *	7245	52250		

\*Not listed in ESR-2604

KCCQ			ESR-1465	
USP Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	KCCQ325-4	7140		
KCCQ325-6	7140	21485		
KCCQ44	6675	24065		
KCCQ46	7140	24065		
KCCQ48	7140	24065		
KCCQ525-4	7390	41640		
KCCQ525-6	7390	41640		
KCCQ525-8	7390	41640		
KCCQ64	7140	37815		
KCCQ66	7140	37815		
KCCQ68	7140	37815		
KCCQ67X	7140	37815		
KCCQ74	7390	46405		
KCCQ76	7390	46405		
KCCQ77	7390	46405		
KCCQ78	7390	46405		
KCCQ71-4 *	7390	48125		
KCCQ71-6 *	7390	48125		
KCCQ71-71	7390	48125		
KCCQ71-8 *	7390	48125		
KCCQ86	7140	51565		
KCCQ88	7140	51565		
KCCQ96	7140	60155		
KCCQ98	7140	60155		
KCCQ106	7140	65315		

\*Not listed in ESR-1465



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CCCQ			No Code Listing	
Simpson Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	CCCQ3-4SDS	4780		
CCCQ3-6SDS	4780	19250		
CCCQ44SDS	4780	19020		
CCCQ46SDS	4780	24065		
CCCQ5-4SDS	4780	26635		
CCCQ5-6SDS	4780	28190		
CCCQ5-8SDS	4780	31570		
CCCQ64SDS	4780	28585		
CCCQ66SDS	4780	30250		
CCCQ68SDS	4780	37815		
CCCQ76SDS	4780	37125		
CCCQ77SDS	4780	41580		
CCCQ78SDS	4780	41580		
CCCQ7.1-4SDS	4780	34730		
CCCQ7.1-6SDS	4780	38500		
CCCQ7.1-7.1SDS	4780	57750		
CCCQ86SDS	4780	41250		
CCCQ88SDS	4780	51565		

KCCQC			No Code Listing	
USP Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	KCCQC325-4	7140		
KCCQC325-6	7140	21485		
KCCQC44	6675	24065		
KCCQC46	7140	24065		
KCCQC525-4	7390	41640		
KCCQC525-6	7390	41640		
KCCQC525-8	7390	41640		
KCCQC64	7140	37815		
KCCQC66	7140	37815		
KCCQC68	7140	37815		
KCCQC76	7390	46405		
KCCQC77	7390	46405		
KCCQC78	7390	46405		
KCCQC71-4	7390	48125		
KCCQC71-6	7390	48125		
KCCQC71-71	7390	48125		
KCCQC86	7140	51565		
KCCQC88	7140	51565		

CCTQ			No Code Listing	
Simpson Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	CCTQ3-4SDS	5315		
CCTQ3-6SDS	5315	19250		
CCTQ44SDS	5315	19020		
CCTQ46SDS	5315	24065		
CCTQ5-4SDS	5315	26635		
CCTQ5-6SDS	5315	28190		
CCTQ5-8SDS	5315	31570		
CCTQ64SDS	5315	28585		
CCTQ66SDS	5315	30250		
CCTQ68SDS	5315	37815		
CCTQ76SDS	5315	37125		
CCTQ77SDS	5315	41580		
CCTQ78SDS	5315	41580		
CCTQ7.1-4SDS	5315	34730		
CCTQ7.1-6SDS	5315	38500		
CCTQ7.1-7.1SDS	5315	57750		
CCTQ86SDS	5315	41250		
CCTQ88SDS	5315	51565		

KCCQT			No Code Listing	
USP Stock No.	DF-L / SP Design Load		Uplift 160%	Bearing 100%
	KCCQT325-4	7140		
KCCQT325-6	7140	21485		
KCCQT44	6675	24065		
KCCQT46	7140	24065		
KCCQT525-4	7390	41640		
KCCQT525-6	7390	41640		
KCCQT525-8	7390	41640		
KCCQT64	7140	37815		
KCCQT66	7140	37815		
KCCQT68	7140	37815		
KCCQT76	7390	46405		
KCCQT77	7390	46405		
KCCQT78	7390	46405		
KCCQT71-4	7390	48125		
KCCQT71-6	7390	48125		
KCCQT71-71	7390	48125		
KCCQT86	7140	51565		
KCCQT88	7140	51565		

CMST		ESR-2105	
CMSTC		ESR-2105	
Simpson Stock No.	DF-L / SP Design Load		Tension 160%
	CMST12	9215	
CMST14	6490		
CMSTC16	4585		

CMST		ESR-1881	
CMSTC		ESR-1465	
USP Stock No.	DF-L / SP Design Load		Tension 160%
	CMST12	9320	
CMST14	6630		
CMSTC16	4715		

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CPS			No Code Listing		
Simpson Stock No.	Uplift	Down			
CPS4	4490	5195			
CPS46	4490	5865			
CPS5	4490	5865			
CPS6	4490	7745			
CPS7	4490	8315			

CS			ESR-2105		
Simpson Stock No.	DF-L / SP Design Load				
	Tension				
	160%				
CS14	2490				
CS16	1705				
CS18	1370				
CS20	1030				
CS22	845				
CS14-R	2490				
CS16-R	1705				
CS18-R	1370				
CS20-R	1030				
CS22-R	845				

DJTZ					ESR-2614				
Simpson Stock No.	DF-L / SP Design Load								
	Nails		Bolts						
	100%	125%	100%	125%					
DJT14Z	1100	1375	1400	1400					

DPTZ		NER-443	
Simpson Stock No.			
DPT5Z			
DPT7Z			

DS		ESR-2614	
Simpson Stock No.			
DS			

DSC			No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	DF-L / SP Design Load				
	Compression	Tension			
	160%				
DSC5L-SDS3	4745	5925			
DSC5R-SDS3	4745	5925			

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CPB			No Code Listing		
USP Stock No.	Post Base Allowable Capacity	Concrete Design Bearing Strength			
CPB44	5235	6545			
CPB46	6810	9820			
CPB55	6295	8925			
CPB66	8570	11600			
CPB88	12490	19040			

RS			ESR-1831		
USP Stock No.	DF-L / SP Design Load				
	Tension				
	160%				
RS14-100	2610				
RS150	1730				
RS200	1375				
RS250	1045				
RS300	925				
RS14-R	2610				
RS16-R	1730				
RS18-R	1375				
RS20-R	1045				
RS22-R	925				

SDJT					No Code Listing				
USP Stock No.	DF-L / SP Design Load								
	Nails		Bolts						
	100%	125%	100%	125%					
SDJT14-TZ	1120	1400	1400	1400					

SDPT		No Code Listing	
USP Stock No.			
SDPT5-TZ			
SDPT7-TZ			

DC		No Code Listing	
USP Stock No.			
DC1			

DSC			ESR-1465		
USP Stock No.	DF-L / SP Design Load				
	Compression	Tension			
	160%				
DSC4L	4965	4945			
DSC4R	4965	4945			

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DSP ESR-2613		
Simpson Stock No.	Plate	DF-L / SP Design Load
		Uplift 160%
DSP	Single Sill	660
	Double Top	775

RSPT ESR-1881		
USP Stock No.	Plate	DF-L / SP Design Load
		Uplift 160%
RSPT6-2	Single Sill	955
	Double Top	955

DTC No Code Listing				
Simpson Stock No.	DF-L / SP Design Load (160%)			
	Without Gap		With 1/4" Max Gap	
	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
DTC	125	210	85	135

TR No Code Listing				
USP Stock No.	DF-L / SP Design Load (160%)			
	Without Gap		With 1/4" Gap	
	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
TR2	125	210	85	135

DTT2 ESR-2330			
Simpson Stock No.	Min Wood Member Thickness	DF-L / SP Design Load (160%)	
		Tension	Δ (in)
DTT2	1-1/2	1825	0.105
	3	2145	0.128
DTT2Z-SDS2.5 *	3	2145	0.128

DTB ER-0200			
USP Stock No.	Min Wood Member Thickness	DF-L / SP Design Load (160%)	
		Tension	Δ (in)
DTB-TZ	1-1/2	1890	0.119
	3	1890	0.119
DTB-TZ	3	1890	0.119

\*Not listed in ESR-2330

ECC ESR-2604		
ECCU ESR-2604		
Simpson Stock No.	DF-L / SP Design Load	
	ECCU	ECC / ECCU
	Uplift ** 160%	Bearing 100%
ECC31/4-4	1010	6125
ECC31/4-6	1010	9625
ECC44	205	7655
ECC46	740	12030
ECC48 *	740	16405
ECC51/4-4	2735	10045
ECC51/4-6	2735	15785
ECC51/4-8	2735	21525
ECC64	1165	12030
ECC66	1165	18905
ECC68	1165	25780
ECC6-71/8 *	1165	24060
ECC74 *	3605	13230
ECC76	3605	20790
ECC77	3605	25515
ECC78	3605	28350
ECC71/8-4 *	4855	18375
ECC7 1/2-6 *	4855	28875
ECC71/8-71/8 *	4855	36750
ECC71/8-8 *	4855	36750
ECC86	2625	23100
ECC88	2625	31500
ECC96	4670	26950
ECC98	4670	36750
ECC106	3325	29260

KECCQ ESR-1465		
USP Stock No.	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
	KECCQ325-4	7060
KECCQ325-6	7060	14650
KECCQ44	7105	17030
KECCQ46	7060	18595
KECCQ48	7060	18595
KECCQ525-4	7060	22410
KECCQ525-6	7060	27365
KECCQ525-8	7060	30430
KECCQ64	7060	23610
KECCQ66	7060	28980
KECCQ68	7060	29220
KECCQ67X	7060	29220
KECCQ74	7060	27550
KECCQ76	7060	35860
KECCQ77	7060	35860
KECCQ78	7060	35860
KECCQ71-4 *	7060	28240
KECCQ71-6 *	7060	35285
KECCQ71-71	7060	37190
KECCQ71-8 *	7060	37190
KECCQ86	7060	37465
KECCQ88	7060	39845
KECCQ96	7060	42710
KECCQ98	7060	46485
KECCQ106	7060	45840

\*Not listed in ESR-2604

\*\*Uplift loads not listed in ESR-2604

\*Not listed in ESR-1465

## SIMPSON Strong-Tie Connectors®

ECCLQ	No Code Listing	
	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
Simpson Stock No.		
ECCLQ3-4SDS	3795	6125
ECCLQ3-6SDS	3795	9625
ECCLQ44SDS	3795	7655
ECCLQ46SDS	3795	12030
ECCLQ48SDS	3795	16405
ECCLQ5-4SDS	3795	10045
ECCLQ5-6SDS	3795	15785
ECCLQ5-8SDS	3795	21525
ECCLQ64SDS	3795	12030
ECCLQ66SDS	3795	18905
ECCLQ68SDS	3795	25780
ECCLQ74SDS	3795	13230
ECCLQ76SDS	3795	20790
ECCLQ77SDS	3795	25515
ECCLQ78SDS	3795	28350
ECCLQ7.1-4SDS	3795	18375
ECCLQ7.1-6SDS	3795	28875
ECCLQ7.1-7.1SDS	3795	36750
ECCLQ86SDS	3795	25780
ECCLQ88SDS	3795	35155
ECCLLQ444SDS	3795	7655
ECCLLQ464SDS	3795	12030
ECCLLQ666SDS	3795	18905
ECCLRQ444SDS	3795	7655
ECCLRQ464SDS	3795	12030
ECCLRQ666SDS	3795	18905

ECCQ	ESR-2604	
	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
Simpson Stock No.		
ECCQ3-4SDS2.5	3695	6125
ECCQ3-6SDS2.5	3695	9625
ECCQ44SDS2.5	4040	7655
ECCQ46SDS2.5	4040	12030
ECCQ48SDS2.5	4040	16405
ECCQ5-4SDS2.5	4040	10045
ECCQ5-6SDS2.5	5535	15785
ECCQ5-8SDS2.5	5535	21525
ECCQ64SDS2.5	4040	12030
ECCQ66SDS2.5	4040	18905
ECCQ68SDS2.5	4040	25780
ECCQ6-7.13SDS2.5 *	4040	24490
ECCQ74SDS2.5	4040	13230
ECCQ76SDS2.5	5535	20790
ECCQ77SDS2.5	5535	25515
ECCQ78SDS2.5	5535	28350
ECCQ7.1-4SDS2.5 *	4040	18375
ECCQ7.1-6SDS2.5 *	5535	28875
ECCQ7.1-7.1SDS2.5 *	5535	36750
ECCQ7.1-8SDS2.5 *	5535	39375
ECCQ86SDS2.5 *	5535	25780
ECCQ88SDS2.5 *	5535	35155
ECCQ96SDS2.5 *	5535	26950
ECCQ98SDS2.5 *	5535	36750
ECCQ106SDS2.5 *	5535	32655

\*Not listed in ESR-2604

## USP Structural Connectors®

KECCQL	No Code Listing	
	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
USP Stock No.		
KECCQL325-4	7060	14650
KECCQL325-6	7060	14650
KECCQL44	7105	17030
KECCQL46	7060	18595
KECCQL48	7060	18595
KECCQL525-4	7060	22410
KECCQL525-6	7060	27365
KECCQL525-8	7060	30430
KECCQL64	7060	23610
KECCQL66	7060	28980
KECCQL68	7060	29220
KECCQL74	7060	27550
KECCQL76	7060	35860
KECCQL77	7060	35860
KECCQL78	7060	35860
KECCQL71-4	7060	28240
KECCQL71-6	7060	35285
KECCQL71-71	7060	37190
KECCQL86	7060	37465
KECCQL88	7060	39845
KECCQL444	7105	17030
KECCQL464	7060	18595
KECCQL666	7060	28980
KECCQLR444	7105	17030
KECCQLR464	7060	18595
KECCQLR666	7060	28980

KECCQ	ESR-1465	
	DF-L / SP Design Load	
	Uplift 160%	Bearing 100%
USP Stock No.		
KECCQ325-4	7060	14650
KECCQ325-6	7060	14650
KECCQ44	7105	17030
KECCQ46	7060	18595
KECCQ48	7060	18595
KECCQ525-4	7060	22410
KECCQ525-6	7060	27365
KECCQ525-8	7060	30430
KECCQ64	7060	23610
KECCQ66	7060	28980
KECCQ68	7060	29220
KECCQ67X	7060	29220
KECCQ74	7060	27550
KECCQ76	7060	35860
KECCQ77	7060	35860
KECCQ78	7060	35860
KECCQ71-4 *	7060	28240
KECCQ71-6 *	7060	35285
KECCQ71-71	7060	37190
KECCQ71-8 *	7060	37190
KECCQ86	7060	37465
KECCQ88	7060	39845
KECCQ96	7060	42710
KECCQ98	7060	46485
KECCQ106	7060	45840

\*Not listed in ESR-1465

**SIMPSON Strong-Tie Connectors®**

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EG		ESR-2615			
Simpson Stock No.	DF-L / SP Design Load <sup>1</sup>				
	Top Flange Triangle Theory		Without Top Flange		Uplift 160%
	Floor 100%	Roof 125%	Floor 100%	Roof 125%	
EG5	17095	19310	8870	11085	--
EG7	17095	19310	8870	11085	--
EG9	17095	19310	8870	11085	--

KEG		ESR-1280			
USP Stock No.	DF-L / SP Design Load <sup>1</sup>				
	With Top Flange		Without Top Flange		Uplift * 160%
	Floor 100%	Roof 125%	Floor 100%	Roof 125%	
KEG5	17615	19920	9215	11520	7305
KEG7	18695	21005	9245	11555	9215
KEG9	20125	21220	9275	11595	9240

<sup>1</sup> Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

<sup>1</sup> Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

\*Uplift values are not published in ESR-1280.

EPB		ER-5708			
Simpson Stock No.	DF-L / SP Design Load				
	Uplift 160%	F1 160%	F2 160%	Bearing 100%	
EPB44A	1100	815	935	2670	
EPB44	800	985	1135	3465	
EPB46	800	985	1135	3465	
EPB66	1500	985	1135	3465	

EPB		NER-505			
EBG		NER-505			
USP Stock No.	DF-L / SP Design Load				
	Uplift 160%	F1 160%	F2 160%	Bearing 100%	
EBG44-TZ	1085	1100	1180	2485	
EPB4408	1140	1115	1075	3045	
EPB4608	1560	2330	1695	3045	
EPB6608	1560	2330	1695	4665	

\*Design loads as listed in USP's 56th Edition Full Line Catalog

EPB		No Code Listing		
Simpson Stock No.	DF-L / SP Design Load			
	Uplift			Bearing 100%
	SET 160%	AT 160%		
EPB44PHDG	1265	985		3670

EPB		No Code Listing	
USP Stock No.	DF-L / SP Design Load		
	Cast-in-Place Only		
	Uplift 160%	Bearing 100%	
EPB4408-HDG	1140	3045	

EPC		ESR-2604		
Simpson Stock No.	DF-L / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
EPC44-16	1000	1000	--	
EPC44	1700	1070	--	
EPC46-16	1000	1000	--	
EPC46	1700	1070	--	
EPC48-16	1000	1285	--	
EPC48	1700	1610	--	
EPC64-16	1000	1000	--	
EPC64	1700	1070	--	
EPC66-16	1000	1285	--	
EPC66	1700	1610	--	
EPC68	1700	1610	--	
EPC84	1700	1610	--	
EPC86	1700	1610	--	
EPC88	1700	1610	--	

EPCM		ESR-1781		
USP Stock No.	DF-L / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
EPCM4416	1100	1300	1480	
EPCM44	1900	1545	1850	
EPCM4616	1100	1300	1480	
EPCM46	1900	1545	1850	
EPCM4816	1100	1300	1480	
EPCM48	1900	1545	1850	
EPCM6416	1120	1765	1765	
EPCM64	1795	1905	1905	
EPCM6616	1120	1765	1765	
EPCM66	1795	1905	1905	
EPCM68	1795	1905	1905	
EPCM84	1795	1905	1905	
EPCM86	1795	1905	1905	
EPCM88	1795	1905	1905	

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F		ESR-2607	
Simpson Stock No.	DF-L / SP Design Load		Roof 125%
	F26P	585	
F24-2	735		
F26-2	800		
F44	880		
F46	785		

FB		No Code Listing	
Simpson Stock No.			
FB24			
FB24Z			
FBR24			

FC		ESR-2606	
Simpson Stock No.	DF-L / SP Design Load		F1 100%
	FC6	920	
FC6	920		

FPB		No Code Listing	
Simpson Stock No.			
FPBS44			
FPBM44E			
FPBB44			

GA		ESR-2606			
Simpson Stock No.	Direction of Load	DF-L / SP Design Load			
		100%	115%	125%	160%
GA1	F1	185	185	185	185
	F2	220	255	280	185
GA2	F1	335	385	415	450
	F2	335	335	415	450

GB		ESR-2615		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
GB3	7215	7380	7490	1745
GB5	7370	7640	8005	1745
GB7	7370	7750	8005	1745

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KF		ESR-1280	
USP Stock No.	DF-L / SP Design Load		Roof 125%
	PHG26	650	
PHG24-2	650		
PHG26-2	650		
KF44	695		
KF46	810		

FC		No Code Listing	
USP Stock No.			
FC24-TZ			
FC24-TZ			
FC24-TZ			

JA		ESR-1781	
HGA		ESR-1465	
USP Stock No.	DF-L / SP Design Load		F1 100%
	JA5	685	
HGA10	1320		

SFP		No Code Listing	
SMP		No Code Listing	
BD		No Code Listing	
USP Stock No.			
SFP30			
SMP			
BD			

A		ESR-2104			
USP Stock No.	Direction of Load	DF-L / SP Design Load			
		100%	115%	125%	160%
A3	F1	450	515	560	590
	F2	450	515	560	600
A3	F1	450	515	560	590
	F2	450	515	560	600

KGB		No Code Listing		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
KGB3	6460	6840	7095	2440
KGB5	6460	6840	7095	2440
KGB7	6460	6840	7095	2440

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GBC		ESR-2605			
Simpson Stock No.	DF-L / SP Design Load				
	F2 (160%)				
	Toward Anchors		Away from Anchors		
	Gable Brace Angle		Gable Brace Angle		
	40°-45°	46°-60°	40°-45°	46°-60°	
GBC	635	570	425	325	

GH			ESR-2616	
Simpson Stock No.	DF-L / SP Design Load			
	100%		125%	
GH46-6	2000		2000	
GH46-8	2000		2000	
GH48-6	2000		2000	
GH48-8	2000		2000	
GH66-6 *	4000		4000	
GH66-8 *	4000		4000	
GH68-6 *	4000		4000	
GH68-8 *	4000		4000	

\*Not listed in ESR-2616

GLB			ESR-2616	
Simpson Stock No.	DF-L / SP Design Load			
	Masonry @375 psi		Wood Bearing @ 560psi	
	100%		100%	
GLB5A	13125		14350	
GLB5B	15750		17220	
GLB5C	18375		20090	
GLB5D	21000		22960	
GLB7A	16875		14350	
GLB7B	20250		17220	
GLB7C	23625		20090	
GLB7D	27000		22960	

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HC520		2031C			
USP Stock No.	DF-L / SP Design Load				
	F2 (160%)				
	Toward Anchors		Away from Anchors		
	Gable Brace Angle		Gable Brace Angle		
	40°-45°	46°-60°	40°-45°	46°-60°	
HC520	450	450	450	450	

KGH			ESR-1280	
USP Stock No.	DF-L / SP Design Load			
	100%		125%	
KGH46-6	2050		2050	
KGH46-8	2050		2050	
KGH48-6	2050		2050	
KGH48-8	2050		2050	
KGH66-6	2035		2035	
KGH66-8	2035		2035	
KGH68-6	2035		2035	
KGH68-8	2035		2035	

KGLB			ER-2725	
USP Stock No.	DF-L / SP Design Load *			
	Masonry @375 psi		Wood Bearing @ 560psi	
	100%		100%	
KGLB5A	11790		11790	
KGLB5B	14145		14145	
KGLB5C	16505		16505	
KGLB5D	18860		18860	
KGLB7A	15525		15525	
KGLB7B	18630		18630	
KGLB7C	21735		21735	
KGLB7D	24840		24840	

\*Design loads as listed in USP's 56th Edition Full Line Catalog

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GLBT		ESR-2616				
Simpson Stock No.	Design Load					
	Masonry @375 psi	Wood Bearing on Beam Width				Bolt Loads Horizontal
		100%	5-1/8	6-3/4	8-3/4	
GLBT512	23625	15070	19845	25725	31605	8260
GLBT612	29250	18655	24570	31850	39130	8260
GLBT516	31500	15070	19845	25725	31605	8260
GLBT616	39000	18655	24570	31850	39130	8260
GLBT520	39375	15070	19845	25725	31605	8260
GLBT620	48750	18655	24570	31850	39130	8260

GLS		ESR-2615			
Simpson Stock No.	Design Loads (Lbs) - Each Side Based on 560 psi wood bearing				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
GLS3-5	9790	9965	10080	1745	
GLS3-7	9840	10005	10115	1745	
GLS3-9	9840	10005	10115	1745	
GLS5-5	13080	13080	13080	1745	
GLS5-7	13080	13080	13080	1745	
GLS7-7	14040	14040	14040	1745	
GLS7-9	14040	14040	14040	1745	

GLT		ESR-2615			
Simpson Stock No.	Design Load Based on 560 psi wood bearing				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
GLT3	8165	8165	8165	1745	
GLT4	8165	8165	8165	1745	
GLT5	8165	8165	8165	1745	
GLT6	8165	8165	8165	1745	
GLT7	8165	8165	8165	1745	

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KGLBT		ER-2725				
USP Stock No.	Design Load					
	Masonry @375 psi	Wood Bearing on Beam Width				Bolt Loads Horizontal
		100%	5-1/8	6-3/4	8-3/4	
KGLBT512	24750	12965	17080	22140	27200	9870
KGLBT612	29250	15325	20185	26165	32145	9870
KGLBT516	27200	12965	17080	22140	27200	9870
KGLBT616	32145	15325	20185	26165	32145	9870
KGLBT520	27200	12965	17080	22140	27200	9870
KGLBT620	32145	15325	20185	26165	32145	9870

\*Design loads as listed in USP's 56th Edition Full Line Catalog

KGLS		ESR-1280			
USP Stock No.	Design Loads (Lbs) - Each Side Based on 560 psi wood bearing *				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
KGLS35	10275	10505	10655	2440	
KGLS37	10275	10505	10655	2440	
KGLS39	10275	10505	10655	2440	
KGLS55	14710	14980	15160	2440	
KGLS57	15875	16105	16255	2440	
KGLS77	20425	20655	20805	2440	
KGLS79	20425	20655	20805	2440	

\*Design values are not published in ESR-1280.

KGLT		ESR-1280			
USP Stock No.	Design Load Based on 460 psi wood bearing				
	Floor 100%	Roof		Uplift *	
		115%	125%		
KGLT3	7545	7815	7995	2870	
KGLT4	7545	7815	7995	2870	
KGLT5	7545	7815	7995	2870	
KGLT6	7545	7815	7995	2870	
KGLT7	7545	7815	7995	2870	

\*Uplift loads are not listed in ESR-1280



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GLTV		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
GLTV3.56/9.25	7500	7400	5750	7000	5145	1640
GLTV3.59	7500	7400	5750	7000	5145	1640
GLTV3.56/11.25	7500	7400	5750	7000	5145	1640
GLTV3.511	7500	7400	5750	7000	5145	1640
GLTV3.512	7500	7400	5750	7000	5145	1640
GLTV3.514	7500	7400	5750	7000	5145	1640
GLTV3.516	7500	7400	5750	7000	5145	1640
GLTV3.518	7500	7400	5750	7000	5145	1640
GLTV3.56/18.75	7500	7400	5750	7000	5145	1640
GLTV3.520	7500	7400	5750	7000	5145	1640
GLTV5.50/9.25	7500	7400	5750	7000	5145	1640
GLTV5.59	7500	7400	5750	7000	5145	1640
GLTV5.50/11.25	7500	7400	5750	7000	5145	1640
GLTV5.511	7500	7400	5750	7000	5145	1640
GLTV5.512	7500	7400	5750	7000	5145	1640
GLTV5.514	7500	7400	5700	7000	5145	1640
GLTV5.516	7500	7400	5750	7000	5145	1640
GLTV5.518	7500	7400	5750	7000	5145	1640
GLTV5.520	7500	7400	5750	7000	5145	1640
GLTV5.50/18.75	7500	7400	5750	7000	5145	1640
GLTV49.25-2	7500	7400	5750	7000	5145	1640
GLTV49.5-2	7500	7400	5750	7000	5145	1640
GLTV411.25-2	7500	7400	5750	7000	5145	1640
GLTV411.88-2	7500	7400	5750	7000	5145	1640
GLTV414-2	7500	7400	5750	7000	5145	1640
GLTV416-2	7500	7400	5750	7000	5145	1640
GLTV418-2	7500	7400	5750	7000	5145	1640
GLTV420-2	7500	7400	5750	7000	5145	1640
GLTV422-2	7500	7400	5750	7000	5145	1640
GLTV424-2	7500	7400	5750	7000	5145	1640
GLTV426-2	7500	7400	5750	7000	5145	1640
GLTV428-2	7500	7400	5750	7000	5145	1640
GLTV430-2	7500	7400	5750	7000	5145	--
GLTV432-2	7500	7400	5750	7000	5145	---

HLBH		ESR-1831				
KGLT		ESR-1280				
PHXU		ESR-2104				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
PHXU35925	6650	5785	6420	5285	3590	1290
PHXU3595	6650	5785	6420	5285	3590	1290
PHXU35112	6650	5785	6420	5285	3590	1290
PHXU35118	6650	5785	6420	5285	3590	1290
PHXU3512	6650	5785	6420	5285	3590	1290
PHXU3514	6650	5785	6420	5285	3590	1290
PHXU3516	6650	5785	6420	5285	3590	1290
PHXU3518	6650	5785	6420	5285	3590	1290
KGLT4H1875	7545	7545	7545	7545	6340	2870
PHXU3520	6650	5785	6420	5285	3590	1290
PHXU55925	6650	5785	6650	5285	3590	1290
PHXU5595	6650	5785	6650	5285	3590	1290
PHXU55112	6650	5785	6650	5285	3590	1290
PHXU55118	6650	5785	6650	5285	3590	1290
PHXU5512	6650	5785	6650	5285	3590	1290
PHXU5514	6650	5785	6650	5285	3590	1290
PHXU5516	6650	5785	6650	5285	3590	1290
PHXU5518	6650	5785	6650	5285	3590	1290
PHXU5520	6650	5785	6650	5285	3590	1290
KGLT6H1875	7545	7545	7545	7545	6340	2870
PHXU71925	6650	5785	6650	5285	3590	1290
PHXU7195	6650	5785	6650	5285	3590	1290
PHXU71112	6650	5785	6650	5285	3590	1290
PHXU71118	6650	5785	6650	5285	3590	1290
PHXU7114	6650	5785	6650	5285	3590	1290
PHXU7116	6650	5785	6650	5285	3590	1290
PHXU7118	6650	5785	6650	5285	3590	1290
PHXU7120	6650	5785	6650	5285	3590	1290
HLBH7122	10620	10370	9600	9600	8915	1605
HLBH7124	10620	10370	9600	9600	8915	1605
HLBH7126	10620	10370	9600	9600	8915	1605
HLBH7128	10620	10370	9600	9600	8915	1605
HLBH7130	10620	10370	9600	9600	8915	1605
HLBH7132	10620	10370	9600	9600	8915	1605

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## SIMPSON Strong-Tie Connectors®

H			
ESR-2613, ER-112			
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
H1	585	485	165
H2	335	--	--
H2A	575	130	55
H2.5	415	150	150
H2.5A	600	110	110
H2.5T	545	135	145
H3	455	125	160
H4	360	165	160
H5	455	115	200
H6	950	--	--
H7Z	985	400	--
H8 *	745	75	--
H10	995	590	275
H10A	1140	590	285
H10-2	760	455	395
H14	1350	515	265
HS24	605 <sup>1</sup>	590 <sup>1</sup>	640 <sup>1</sup>

<sup>1</sup>Allowable loads without slant nailing.

\*No ICC-ES or IAPMO-ES Code Listing

HB						
ESR-1866						
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
HB3.56/9.25	5815	5640	6395	5650	3820	2610
HB3.56/9.5	5815	5640	6395	5650	3820	2610
HB3.56/11.25	5815	5640	6395	5650	3820	2610
HB3.56/11.88	5815	5640	6395	5650	3820	2610
HB3.56/12	5815	5640	6395	5650	3820	2610
HB3.56/14	5815	5640	6395	5650	3820	2610
HB3.56/16	5815	5640	6395	5650	3820	2610
HB3.56/18	5815	5640	6395	5650	3820	2610
HB3.56/20	5815	5640	6395	5650	3820	2610
HB3.56/22	5815	5640	6395	5650	3820	2610
HB3.56/24	5815	5640	6395	5650	3820	2610
HB3.56/26	5815	5640	6395	5650	3820	2610
HB3.56/28	5815	5640	6395	5650	3820	2610
HB3.56/30	5815	5640	6395	5650	3820	2610
HB5.50/9.25	5815	5640	6395	5650	3820	2610
HB5.50/9.5	5815	5640	6395	5650	3820	2610
HB5.50/11.25	5815	5640	6395	5650	3820	2610
HB5.50/11.88	5815	5640	6395	5650	3820	2610
HB5.50/12	5815	5640	6395	5650	3820	2610
HB5.50/14	5815	5640	6395	5650	3820	2610
HB5.50/16	5815	5640	6395	5650	3820	2610
HB5.50/18	5815	5640	6395	5650	3820	2610
HB5.50/20	5815	5640	6395	5650	3820	2610
HB7.12/9.25	5815	5640	6395	5650	3820	2610
HB7.12/9.5	5815	5640	6395	5650	3820	2610

## USP Structural Connectors®

RT			
ESR-1465			
LFTA			
ESR-2104			
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%	F1 160%	F2 160%
RT15	530	500	340
RT10	585	195	195
RT10	585	195	195
RT7	585	195	195
RT7A	670	210	210
RT7	585	195	195
RT3A	610	190	190
RT4	410	215	215
RT5	540	265	265
LFTA6	1210	700	90
RT20 <sup>1</sup>	1200	--	--
RT8A	775	215	215
RT16A	1380	800	645
RT16A	1380	800	645
RT16-2	1160	655	415
RT16A	1380	800	645
RT6	665	800	800

<sup>1</sup>RT20 is available in Triple Zinc G-185 as a special order item.

HLBH						
ESR-1831						
PHXU						
ESR-2104						
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
PHXU35925	6650	5785	6420	5285	3590	1290
PHXU3595	6650	5785	6420	5285	3590	1290
PHXU35112	6650	5785	6420	5285	3590	1290
PHXU35118	6650	5785	6420	5285	3590	1290
PHXU3512	6650	5785	6420	5285	3590	1290
PHXU3514	6650	5785	6420	5285	3590	1290
PHXU3516	6650	5785	6420	5285	3590	1290
PHXU3518	6650	5785	6420	5285	3590	1290
PHXU3520	6650	5785	6420	5285	3590	1290
PHXU3522	6650	5785	6420	5285	3590	1290
PHXU3524	6650	5785	6420	5285	3590	1290
PHXU3526	6650	5785	6420	5285	3590	1290
PHXU3528	6650	5785	6420	5285	3590	1290
PHXU3530	6650	5785	6420	5285	3590	1290
PHXU55925	6650	5785	6650	5285	3590	1290
PHXU5595	6650	5785	6650	5285	3590	1290
PHXU55112	6650	5785	6650	5285	3590	1290
PHXU55118	6650	5785	6650	5285	3590	1290
PHXU5512	6650	5785	6650	5285	3590	1290
PHXU5514	6650	5785	6650	5285	3590	1290
PHXU5516	6650	5785	6650	5285	3590	1290
PHXU5518	6650	5785	6650	5285	3590	1290
PHXU5520	6650	5785	6650	5285	3590	1290
PHXU71925	6650	5785	6650	5285	3590	1290
PHXU7195	6650	5785	6650	5285	3590	1290

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HB		ESR-1866				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
HB7.12/11.25	5815	5640	6395	5650	3820	2610
HB7.12/11.88	5815	5640	6395	5650	3820	2610
HB7.12/14	5815	5640	6395	5650	3820	2610
HB7.12/16	5815	5640	6395	5650	3820	2610
HB7.12/18	5815	5640	6395	5650	3820	2610
HB7.12/20	5815	5640	6395	5650	3820	2610
HB7.12/22	5815	5640	6395	5650	3820	2610
HB7.12/24	5815	5640	6395	5650	3820	2610
HB7.12/26	5815	5640	6395	5650	3820	2610
HB7.12/28	5815	5640	6395	5650	3820	2610

HLBH PHXU		ESR-1831				
		ESR-2104				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
PHXU71112	6650	5785	6650	5285	3590	1290
PHXU71118	6650	5785	6650	5285	3590	1290
PHXU7114	6650	5785	6650	5285	3590	1290
PHXU7116	6650	5785	6650	5285	3590	1290
PHXU7118	6650	5785	6650	5285	3590	1290
PHXU7120	6650	5785	6650	5285	3590	1290
HLBH7122	10620	10370	9600	9600	8915	1605
HLBH7124	10620	10370	9600	9600	8915	1605
HLBH7126	10620	10370	9600	9600	8915	1605
HLBH7128	10620	10370	9600	9600	8915	1605

HCA		ESR-2607			
Simpson Stock No.	Bolt Dia.	Design Load (560 psi)			
		2 Rotation Bolts Per Beam		3 Rotation Bolts Per Beam	
		H1 (Inches)	Roof 125%	H1 (Inches)	Roof 125%
HCA5-5	3/4	16	14350	13	14350
HCA5-6	3/4	20	17220	16	17220
HCA5-7	3/4	25	20090	19	20090
HCA5-9	3/4	36	25830	27	25830
HCA7-5	3/4	19	18900	15	18900
HCA7-6	3/4	24	22680	18	22680
HCA7-7	3/4	30	26460	22	26460
HCA7-9	3/4	40	29615	33	34020
HCA9-5	3/4	22	24500	17	24500
HCA9-6	3/4	29	29400	22	29400
HCA9-7	3/4	37	34300	27	34300
HCA9-9	3/4	40	29615	40	43975
HCA11-5	3/4	26	30100	20	30100
HCA11-6	3/4	34	36120	25	36120
HCA11-7	3/4	40	37925	32	42140
HCA11-9	3/4	40	29615	40	43975

KHC		ESR-1280			
USP Stock No.	Bolt Dia.	Design Load (560 psi)			
		2 Rotation Bolts Per Beam		3 Rotation Bolts Per Beam	
		Min H (Inches)	Roof 125%	Min H (Inches)	Roof 125%
KHC55	3/4	17-1/2	14350	14	14350
KHC56	3/4	22-3/4	17220	17-1/2	17220
KHC57	3/4	28-3/4	20090	21-3/4	20090
KHC59	3/4	43-1/2	25830	32	25830
KHC75	3/4	20-3/4	18900	16	18900
KHC76	3/4	27-1/2	22680	20-3/4	22680
KHC77	3/4	35-1/2	26460	26-1/4	26460
KHC79	3/4	55	34020	40	34020
KHC95	3/4	24-3/4	24500	18-3/4	24500
KHC96	3/4	33-1/2	29400	24-3/4	29400
KHC97	3/4	43-3/4	34300	32	34300
KHC99	3/4	69-1/4	44100	49-3/4	44100
KHC115	3/4	27-1/4	30100	20-1/4	30100
KHC116	3/4	37-1/4	36120	27	36120
KHC117	3/4	49-1/4	42140	35-1/4	42140
KHC119	3/4	78-1/4	54180	55-1/4	54180

HCP		ESR-2551	
Simpson Stock No.	DF / SP Design Load		
	Uplift 160%	F1 160%	
HCP2	645	300	

HHCP		ESR-1465	
USP Stock No.	DF / SP Design Load		
	Uplift 160%	F1 160%	
HHCP2	800	370	

HCST		No Code Listing	
HCSTR		No Code Listing	
Simpson Stock No.	Design Load		
	F1 160%		
HCST2	9725		
HCST3	14170		
HCST4	18770		
HCSTR2	9725		
HCSTR3	14170		
HCSTR4	18770		

KHCST		ESR-1280	
KHCSTR		ESR-1280	
USP Stock No.	Design Load		
	F1 160%		
KHCST2	9950		
KHCST3	14500		
KHCST4	20145		
KHCST2R	9950		
KHCST3R	14500		
KHCST4R	20145		

## SIMPSON Strong-Tie Connectors®

HD		ER-143	
HDB		No Code Listing	
Simpson Stock No.	Min Wood Thickness (inches)	Design Load	
		DF / SP	Deflection $\Delta$ (in)
HD3B	1-1/2"	1895	0.156
	3"	3130	0.120
	3-1/2"	3130	0.120
	5-1/2"	3130	0.120
HD5B	3"	4505	0.156
	3-1/2"	4935	0.150
	5-1/2"	4935	0.150
HD7B	3"	6645	0.142
	3-1/2"	7310	0.154
	5-1/2"	7345	0.155
HD9B	3"	--	--
	3-1/2"	7740	0.159
	5-1/2"	9920	0.178
HD12	3"	--	--
	3-1/2"	11775	0.171
	4-1/2"	13335	0.177
	5-1/2"	15510	0.162
HD19	3"	--	--
	3-1/2"	--	--
	5-1/2"	19070	0.137

HDQ		ESR-2330	
Simpson Stock No.	Min Wood Thickness (inches)	Design Load	
		DF-L / SP	
		160%	$\Delta$ (in)
HDQ8-SDS3	3	5715	0.064
HDQ8-SDS3	3	5715	0.064
HDQ8-SDS3	3-1/2	7630	0.094

HDU		ESR-2330	
Simpson Stock No.	Min Wood Member Thickness (in)	Design Load	
		DF / SP	Deflection $\Delta$ (in)
HDU2-SDS2.5	3	3075	0.088
HDU4-SDS2.5	3	4565	0.114
HDU5-SDS2.5	3	5645	0.115
HDU8-SDS2.5	3	5980	0.084
HDU11-SDS2.5	5-1/2	9535	0.137
HDU14-SDS2.5	7-1/4	14375	0.177

## USP Structural Connectors®

TD		ER-0200	
TDX		No Code Listing	
USP Stock No.	Min Wood Thickness (inches)	Design Load	
		DF / SP	Deflection $\Delta$ (in)
TDX2-TZ	1-1/2"	1910	0.15
	3"	2345	0.167
	3-1/2"	3130	0.140
	5-1/2"	3130	0.140
TDX6	3"	5320	0.180
	3-1/2"	5355	0.182
	5-1/2"	5355	0.182
TDX10	3"	7845	0.181 <sup>1</sup>
	3-1/2"	7845	0.181 <sup>1</sup>
	5-1/2"	7845	0.181 <sup>1</sup>
TDX14	3"	11995	0.170 <sup>1</sup>
	3-1/2"	13075	0.181 <sup>1</sup>
	5-1/2"	13075	0.181 <sup>1</sup>
TD12	3"	12070	0.132
	3-1/2"	13960	0.142
	4-1/2"	16550	0.185
	5-1/2"	16550	0.185
TD15	3"	14505	0.167
	3-1/2"	16845	0.178
	5-1/2"	17755	0.202

<sup>1</sup>Deflections derived from static, monotonic load tests of devices connected to a steel jig.

PHD		ER-0200	
UPHD		ER-0200	
USP Stock No.	Min Wood Thickness (inches)	Design Load	
		DF-L / SP	
		160%	$\Delta$ (in)
PHD5A	3	6525	0.135
PHD8	3	8185	0.062
UPHD8	3-1/2	9165	0.075

PHD		ER-0200	
UPHD		ER-0200	
USP Stock No.	Min Wood Member Thickness (in)	Design Load	
		DF / SP	Deflection $\Delta$ (in)
PHD2A	3	3215	0.155
PHD4A	3	5215	0.137
PHD5A	3	6525	0.135
PHD5A	3	6525	0.135
PHD8	3	8185	0.062
UPHD8	3-1/2	9165	0.157
UPHD9	5-1/2	11270	0.057
UPHD11	5-1/2	14395	0.077
UPHD11	5-1/2	14395	0.077
UPHD14	5-1/2	16695	0.082

**SIMPSON Strong-Tie Connectors®**

<b>HETA</b>		No ICC-ES Code Listing		
Simpson Stock No.	SP Design Load			
	No. of Plys	Uplift 160%	F1 160%	F2 160%
HETA12	1	1520	340	725
HETA16	1	1810	340	725
HETA20	1	1810	340	725
HETA24	1	1810	340	725
HETA40	1	1810	340	725

<b>HETAL</b>		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
HETAL12	1085	415	1100	
HETAL16	1810	415	1100	
HETAL20	1810	415	1100	

<b>HFN</b>		ESR-2607	
Simpson Stock No.	DF-L / SP Design Load		
	Roof 125%		
HF24N	580		
HF26N	635		
HF34N	690		
HF36N	725		

<b>HGA</b>		No ICC-ES or IAPMO-ES Code Listing		
<b>HGAM</b>		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	DF / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	F3 160%
HGA10KT	695	1165	940	--
HGAM10KTA	850	1005	1105	--

<b>HGB</b>		ESR-2615		
Simpson Stock No.	Design Loads Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HGB5	7885	8265	8520	1745
HGB7	7885	8265	8520	1745

<b>HGLB</b>		ESR-2616			
Simpson Stock No.	Design Load				
	Masonry @375 psi 100%	Wood Bearing on Beam Width			Bolt Loads Horizontal 160%
		5-1/8	6-3/4	8-3/4	
HGLBA	18750	14350	18900	24500	8260
HGLBB	22500	17220	22680	29400	8260
HGLBC	26250	20090	26460	34300	8260
HGLBD	30000	22960	30240	39200	8260

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<b>HTA</b>		NER-608		
USP Stock No.	DF / SP Design Load *			
	No. of Plys	Uplift 160%	F1 160%	F2 160%
HTA12	1	1600	590	660
HTA16	1	1615	590	660
HTA20	1	1615	590	660
HTA24	1	1615	590	660
HTA48	1	1615	590	660

\*Design loads as listed in USP's 56th Edition Full Line Catalog

<b>DTC</b>		No ICC-ES or IAPMO-ES Code Listing		
USP Stock No.	SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
DTC	1825	840	1290	
DTC	1825	840	1290	
DTC	1825	840	1290	

<b>PHG</b>		ESR-1280	
USP Stock No.	DF-L / SP Design Load		
	Roof 125%		
PHG24	580		
PHG26	650		
PHG34	650		
PHG36	650		

<b>HGA</b>		ESR-1465		
<b>HGAM</b>		No ICC-ES or IAPMO-ES Code Listing		
USP Stock No.	DF / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	F3 160%
HGA10KT	1285	1320	1565	835
HGAM10KT	915	1075	1110	740

<b>KHGB</b>		No ICC-ES or IAPMO-ES Code Listing		
USP Stock No.	Design Loads Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
KHGB5	7530	7985	8290	2440
KHGB7	7530	7985	8290	2440

<b>KHGLB</b>		ER-2725			
USP Stock No.	Design Load *				
	Masonry @375 psi 100%	Wood Bearing on Beam Width			Bolt Loads Horizontal 160%
		5-1/8	6-3/4	8-3/4	
KHGLBA	18750	11790	15525	20125	9870
KHGLBB	22500	14145	18630	24150	9870
KHGLBC	26250	16505	21735	28175	9870
KHGLBD	30000	18860	24840	32200	9870

\*Design loads as listed in USP's 56th Edition Full Line Catalog

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HGLS		ESR-2615		
Simpson Stock No.	Design Load - Each Side Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HGLS5	16835	16835	16835	2330
HGLS7	16835	16835	16835	2330
HGLS9	16835	16835	16835	2330

HGLT		ESR-2615		
Simpson Stock No.	Design Loads Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HGLT3	11590	11755	11865	1745
HGLT4	11590	11755	11865	1745
HGLT5	11930	12455	12750	1745
HGLT6	11930	12455	12750	1745
HGLT7	11930	12455	12750	1745
HGLT9	12750	12750	12750	1745

HGLTV		ESR-2615				
Simpson Stock No.	Design Load					Uplift**
	LVL** 100%	PSL 100%	LSL 100%	DF / SP 100%	SPF 100%	
HGLTV3.56/9.25	10500	9485	9000	8665	6770	1640
HGLTV3.59	10500	9485	9000	8665	6770	1640
HGLTV3.56/11.25	10500	9485	9000	8665	6770	1640
HGLTV3.511	10500	9485	9000	8665	6770	1640
HGLTV3.512	10500	9485	9000	8665	6770	1640
HGLTV3.514	10500	9485	9000	8665	6770	1640
HGLTV3.516	10500	9485	9000	8665	6770	1640
HGLTV3.518	10500	9485	9000	8665	6770	1640
HGLTV3.56/18.75	10500	7800	9000	8665	6770	1640
HGLTV3.520	10500	9485	9000	8665	6770	1640
HGLTV5.59	10500	9485	9000	8665	6770	1640
HGLTV5.511	10500	9485	9000	8665	6770	1640
HGLTV5.512	10500	9485	9000	8665	6770	1640
HGLTV5.514	10500	9485	9000	8665	6770	1640
HGLTV5.516	10500	9485	9000	8665	6770	1640
HGLTV5.518	10500	9485	9000	8665	6770	1640
HGLTV5.50/18.75	10500	9485	9000	8665	6770	1640
HGLTV5.520	10500	9485	9000	8665	6770	1640
HGLTV411.25-2 *	10500	9485	9000	8665	6770	1640
HGLTV411.88-2 *	10500	9485	9000	8665	6770	1640
HGLTV414-2 *	10500	9485	9000	8665	6770	1640
HGLTV416-2 *	10500	9485	9000	8665	6770	1640
HGLTV418-2 *	10500	9485	9000	8665	6770	1640

\*Not listed in ESR-2615

\*\*LVL header values and Uplift are not listed in ESR-2615

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KHGLS		ESR-1280		
USP Stock No.	Design Load - Each Side * Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
KHGLS5	20685	20990	21195	3250
KHGLS7	20985	21615	22035	3250
KHGLS9	20985	21615	22035	3250

\*Design values are not published in ESR-1280.

KHGLT		ESR-1280		
USP Stock No.	Design Loads * Based on 560 psi wood bearing			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
KHGLT3	11990	12255	12405	2440
KHGLT4	11990	12525	12885	2440
KHGLT5	11990	12525	12885	2440
KHGLT6	11990	12525	12885	2440
KHGLT7	11990	12525	12885	2440
KHGLT9	13390	13400	13400	2440

\*Design values are not published in ESR-1280.

HLBH		ESR-1831				
KHGLT		ESR-1280				
USP Stock No.	Design Load					Uplift
	LVL 100%	PSL 100%	LSL 100%	DF / SP** 100%	SPF 100%	
HLBH35925	10620	10565	9600	9600	8915	1420
HLBH3595	10620	10565	9600	9600	8915	1420
HLBH35112	10620	10565	9600	9600	8915	1420
HLBH35118	10620	10565	9600	9600	8915	1420
HLBH3512	10620	10565	9600	9600	8915	1420
HLBH3514	10620	10565	9600	9600	8915	1420
HLBH3516	10620	10565	9600	9600	8915	1420
HLBH3518	10620	10565	9600	9600	8915	1420
KHGLT4H1875	10490	10490	10490	10490	10490	2440
HLBH3520	10620	10565	9600	9600	8915	1420
HLBH5595	10620	10565	9600	9600	8915	1605
HLBH55118	10620	10565	9600	9600	8915	1605
HLBH5512	10620	10565	9600	9600	8915	1605
HLBH5514	10620	10565	9600	9600	8915	1605
HLBH5516	10620	10565	9600	9600	8915	1605
HLBH5518	10620	10565	9600	9600	8915	1605
KHGLT6H1875	10490	10490	10490	10490	10490	2440
HLBH5520	10620	10565	9600	9600	8915	1605
HLBH71112	10620	10370	9600	9600	8915	1605
HLBH71118	10620	10370	9600	9600	8915	1605
HLBH7114	10620	10370	9600	9600	8915	1605
HLBH7116	10620	10370	9600	9600	8915	1605
HLBH7118	10620	10370	9600	9600	8915	1605

\*\*DF-L/SYP header values are not listed in ESR-1831

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HGLTV		ESR-2615				
Simpson Stock No.	Design Load					
	LVL <sup>++</sup> 100%	PSL 100%	LSL 100%	DF / SP 100%	SPF 100%	Uplift <sup>++</sup> 160%
HGLTV420-2 *	10500	9485	9000	8665	6770	1640
HGLTV7.12/22 *	10500	9485	9000	8665	6770	1640
HGLTV7.12/24 *	10500	9485	9000	8665	6770	1640
HGLTV426-2 *	10500	9485	9000	8665	6770	1640
HGLTV428-2 *	10500	9485	9000	8665	6770	1640
HGLTV430-2 *	10500	9485	9000	8665	6770	--
HGLTV432-2 *	10500	9485	9000	8665	6770	--

HLBH		ESR-1831				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF / SP <sup>++</sup> 100%	SPF 100%	Uplift 160%
HLBH7120	10620	10370	9600	9600	8915	1605
HLBH7122	10620	10370	9600	9600	8915	1605
HLBH7124	10620	10370	9600	9600	8915	1605
HLBH7126	10620	10370	9600	9600	8915	1605
HLBH7128	10620	10370	9600	9600	8915	1605
HLBH7130	10620	10370	9600	9600	8915	1605
HLBH7132	10620	10370	9600	9600	8915	1605

\*Not listed in ESR-2615

++DF-L/SYP header values are not listed in ESR-1831

+LVL header values and Uplift are not listed in ESR-2615

HGT		ESR-2613, ESR-2616	
Simpson Stock No.	Design Load		Uplift 160%
	DF-L / SP		
	160%		
HGT-2	10980		
HGT-3	10530		
HGT-4	9250		

HUGT		No ICC-ES or IAPMO Code Listing	
USP Stock No.	Design Load		Uplift 160%
	DF-L / SP		
	160%		
HUGT2	9790		
HUGT3	9860		
HUGT4	9860		

HGUS		ESR-2549		
Simpson Stock No.	Floor 100%	DF-L / SP Design Load		Uplift 160%
		Roof		
		115%	125%	
HGUS26	4360	4885	5230	1765
HGUS28	6745	6970	7125	3015
HGUS26-2	4355	4875	5230	2155
HGUS28-2	7460	7460	7460	3235
HGUS210-2	9100	9100	9100	4095
HGUS26-3	4355	4875	5230	2155
HGUS28-3	7460	7460	7460	3235
HGUS210-3	9100	9100	9100	4095
HGUS212-3	9600	9600	9600	5045
HGUS214-3	10100	10100	10100	5515
HGUS210-4	9100	9100	9100	4095
HGUS212-4	9600	9600	9600	5045
HGUS214-4	10100	10100	10100	5515
HGUS46	4355	4875	5230	2155
HGUS48	7460	7460	7460	3235
HGUS410	9100	9100	9100	4095
HGUS412	9600	9600	9600	5045
HGUS414	10100	10100	10100	5515
HGUS5.50/10 *	9100	9100	9100	4095
HGUS5.50/12 *	9600	9600	9600	5045
HGUS5.50/14 *	10100	10100	10100	5515
HGUS3.25/10 *	9100	9100	9100	4095
HGUS3.25/12 *	9600	9600	9600	5045

THDH		ESR-1881		
USP Stock No.	Floor 100%	DF-L / SP Design Load		Uplift 160%
		Roof		
		115%	125%	
THDH26	3915	4505	4895	2340
THDH28	6770	7395	7395	4370
THDH26-2	3915	4505	4795	2235
THDH28-2	6535	7515	8025	2665
THDH210-2	8260	8260	8260	3490
THDH26-3	3915	4505	4795	2235
THDH28-3	6770	7785	8025	2665
THDH210-3	8725	9855	9855	4565
THDH212-3	9935	9935	9935	5180
THDH214-3	11645	11645	11645	5795
THDH6710	8260	8260	8260	3490
THDH6712	9845	9845	9845	5225
THDH6714	9845	9845	9845	6810
THDH46	3915	4505	4895	2605
THDH48	6535	7515	7835	3185
THDH410	8260	9010	9010	3970
THDH412	9845	9845	9845	5225
THDH414	9845	9845	9845	6810
THDH610	8725	9855	9855	4565
THDH612	9935	9935	9935	5180
THDH614	11645	11645	11645	5795
THDH3210	8260	8260	8260	3490
THDH3212	9845	9845	9845	5960

\*Not listed in ESR-2549

continued on next page

## SIMPSON Strong-Tie Connectors®

HGUS ESR-2549				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HGUS5.25/10 *	9100	9100	9100	4095
HGUS5.25/12 *	9600	9600	9600	5045
HGUS6.88/10 *	9100	9100	9100	4095
HGUS6.88/12 *	9600	9600	9600	5045
HGUS6.88/14 *	10100	10100	10100	5515
HGUS7.25/10 *	9100	9100	9100	4095
HGUS7.25/12 *	9600	9600	9600	5045
HGUS7.25/14 *	10100	10100	10100	5515

\*Not listed in ESR-2549

HH ESR-2606						
Simpson Stock No.	DF-L / SP Design Load					
	F1			F2	F3	F4
	100%	115%	125%	160%	160%	160%
HH4	1195	1195	1195	710	710	1085
HH6	1595	1595	1595	1065	1065	1085

HHB ESR-2615				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HHB412	4185	4185	4185	580
HHB414	5135	5135	5135	1165
HHB416	5135	5135	5135	1165
HHB68 *	4185	4185	4185	580
HHB610 *	4185	4185	4185	580
HHB612	6235	6235	6235	1745
HHB614	6235	6235	6235	1745
HHB616	6235	6235	6235	1745
HHB812	6235	6235	6235	1745
HHB814	6235	6235	6235	1745
HHB816	6235	6235	6235	1745
HHB3 <sup>1</sup>	6105	6235	6235	1745
HHB5 <sup>1</sup>	6105	6235	6235	1745
HHB7 <sup>1</sup>	6105	6235	6235	1745

\*Not listed in ESR-2615

<sup>1</sup>HHB values are based on 560 psi wood bearing.

HHDQ ESR-2330			
Simpson Stock No.	Min Wood Member Thickness (in)	Design Load	
		DF / SP 160%	Deflection Δ (in)
		HHDQ11-SDS2.5	5-1/2
HHDQ14-SDS2.5	7-1/4	13015	0.107

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THDH ESR-1881				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
THDH610	8725	9855	9855	4565
THDH612	9935	9935	9935	5180
THDH6710	8260	8260	8260	3490
THDH6712	9845	9845	9845	5225
THDH6714	9845	9845	9845	6810
THDH7210	8260	9010	9010	3970
THDH7212	9845	9845	9845	5225
THDH7214	9845	9845	9845	6810

HH ESR-1280						
USP Stock No.	DF-L / SP Design Load					
	F1			F2	F3	F4
	100%	115%	125%	160%	160%	160%
HH44	1240	1430	1500	885	685	1100
HH66	1655	1905	2070	1150	1325	1100

HDO ESR-1781				
KHW ESR-2104				
KHHB ESR-1280				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HDO412	4880	5230	5465	1220
HDO414	5175	5410	5410	1625
HDO416	5475	5915	6210	1625
HDO68	3825	3825	3825	955
HDO610	4565	4565	4565	1430
HDO612	4880	5230	5465	1430
HDO614	5175	5410	5410	1710
HDO616	5475	5915	6210	1905
KHW812	5335	5335	5335	--
KHW814	5335	5335	5335	--
KHW816	5335	5335	5335	--
KHHB3 <sup>1</sup>	5275	5505	5655	2440 *
KHHB5 <sup>1</sup>	5275	5505	5655	2440 *
KHHB7 <sup>1</sup>	5275	5505	5655	2440 *

\*Uplift values are not published in ESR-1280

<sup>1</sup>KHHB values are based on 625 psi wood bearing

UPHD ER-0200			
USP Stock No.	Min Wood Member Thickness (in)	Design Load	
		DF / SP 160%	Deflection Δ (in)
		UPHD11	5-1/2
UPHD14	5-1/2	16695	0.082



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HHUS		ESR-2549, ESR-2552			
Simpson Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
HHUS26-2	2785	3155	3405	1550	
HHUS28-2	4210	4770	5140	2000	
HHUS210-2	5635	6380	6880	4000	
HHUS46	2790	3160	3410	1550	
HHUS48	4210	4770	5140	2000	
HHUS410	5635	6380	6880	3735	
HHUS210-3 *	5635	6380	6880	4000	
HHUS5.50/10 *	5635	6380	6880	3735	
HHUS7.25/10 *	5635	6380	6880	3735	

\*Not listed in ESR-2549 or ESR-2552

THD		ESR-1781			
USP Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
THD26-2	2540	2920	3175	2285	
THD28-2	3950	4540	4935	2595	
THD210-2	5360	6160	6700	3810	
THD46	2540	2920	3175	2285	
THD48	3950	4540	4935	2595	
THD410	5360	6160	6700	3810	
THD210-3	5660	6510	7045	3850	
THD610	5660	6510	7080	3410	
THD7210	5660	6510	7080	3410	

HIT		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
	HIT318	2550	2220	2500	2875	1950
HIT320	2550	2220	2500	2875	1950	315
HIT322	2550	2220	2500	2875	1950	315
HIT324	2550	2220	2500	2875	1950	315
HIT326	2550	2220	2500	2875	1950	315
HIT418	2550	2220	2500	2875	1950	315
HIT420	2550	2220	2500	2875	1950	315
HIT422	2550	2220	2500	2875	1950	315
HIT424	2550	2220	2500	2875	1950	315
HIT426	2550	2220	2500	2875	1950	315
HIT3518	2550	2220	2500	2875	1950	315
HIT3520	2550	2220	2500	2875	1950	315
HIT3522	2550	2220	2500	2875	1950	315

BPH TFI		ESR-1831				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
	TFI318	2560	2235	2265	2560	1660
TFI320	2560	2235	2265	2560	1660	360 *
TFI322	3245	2920	2950	3245	2345	360 *
TFI324	3245	2920	2950	3245	2345	360 *
TFI326	3245	2920	2950	3245	2345	360 *
TFI418	2560	2235	2265	2560	1660	360 *
BPH3520	3430	3510	3775	3430	3280	1140
TFI422	3245	2920	2950	3245	2345	360 *
TFI424	3245	2920	2950	3245	2345	360 *
TFI426	3245	2920	2950	3245	2345	360 *
TFI3518	2560	2235	2265	2560	1660	360 *
TFI3520	2560	2235	2265	2560	1660	360 *
BPH3522	3430	3510	3775	3430	3280	1140

\*Uplift values are not published in ESR-1280.

HL		No Code Listings	
Simpson Stock No.	Allowable Loads		
	Uplift	F1	
HL33	910	1580	
HL35	910	1580	
HL37	910	1580	
HL53	910	1580	
HL55	910	1580	
HL57	910	1580	
HL43	1555	1580	
HL46	1555	2025	
HL49	1555	2025	
HL73	1555	2025	
HL76	2115	3800	
HL79	2115	3800	

KHL		No Code Listings	
USP Stock No.	Allowable Loads		
	Uplift	F1	
KHL33	---	---	
KHL35	---	---	
KHL37	---	---	
KHL53	---	---	
KHL55	---	---	
KHL57	---	---	
KHL43	---	---	
KHL46	---	---	
KHL49	---	---	
KHL73	---	---	
KHL76	---	---	
KHL79	---	---	

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HL		No Code Listing					
Simpson Stock No.	DF / SP Design Load						
	Tension		Uplift		F1		
	100%	160%	100%	160%	100%	160%	
1212HL	1535	1535	1535	1535	565	565	

HM		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	DF / SP Design Load			
	Uplift	F1	F2	
	160%	160%	160%	
HM9KT	595	425	200	

HPA		ER-5708	
Simpson Stock No.	Nailer Size	Design Load	
		Concrete 160%	
HPA28	2x Ledger	4845	
	1-3/4 LVL & 3x Ledger	4845	
	4x Ledger	4845	
HPA35	2x Ledger	5420	
	1-3/4 LVL & 3x Ledger	5420	
	4x Ledger	5420	

HSA		ESR-2607	
Simpson Stock No.	Design Load		
	Tension 160%		
HSA32	2290		
HSA41	4520		
HSA50	6400		
HSA59	8330		
HSA68	10020		

HST		ESR-2105	
Simpson Stock No.	DF / SP Design Load		
	Tension 160%		
HST2	5220		
HST5	10650		
HST3	7680		
HST6	15470		

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LH		No Code Listing					
USP Stock No.	DF / SP Design Load						
	Tension		Uplift		F1		
	100%	160%	100%	160%	100%	160%	
LH12-O	---	---	---	---	---	---	

RTM		No ICC-ES or IAPMO-ES Code Listing		
USP Stock No.	DF / SP Design Load			
	Uplift	F1	F2	
	160%	160%	160%	
RT16M	1395	630	480	

HPA		NER-505	
USP Stock No.	Nailer Size	Design Load *	
		Concrete 160%	
HPA28	Max Capacity	5055	
	1-3/4 LVL & 3x Ledger	5055	
	4x Ledger	5055	
HPA35	Max Capacity	5425	
	1-3/4 LVL & 3x Ledger	5425	
	4x Ledger	5425	

\*Design loads as listed in USP's 56th Edition Full Line Catalog

KHSA		ESR-1280	
USP Stock No.	Design Load		
	Tension 160%		
KHSA1	2435		
KHSA2	4810		
KHSA3	7005		
KHSA4	8920		
KHSA5	10785		

KHST		ESR-1280	
USP Stock No.	DF / SP Design Load		
	Tension 160%		
KHST2	5250		
KHST5	10635		
KHST3	7920		
KHST6	15935		

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HSUR		ESR-2549		
HSUL		ESR-2549		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HSUR/L26-2	1785	2000	2000	815
HSUR/L210-2	2975	3360	3610	1300
HSUR/L214-2	3870	4365	4695	1795
HSUR/L46	1785	2000	2000	815
HSUR/L410	2975	3360	3610	1300
HSUR/L414	3870	4365	4695	1795
HSUR/L4.12/9 *	1785	2015	2025	165
HSUR/L4.12/11 *	2380	2685	2890	165
HSUR/L4.12/14 *	2975	3330	3330	165
HSUR/L4.12/16 *	3330	3330	3330	165
HSUR/L4.28/9 *	1785	2015	2025	165
HSUR/L4.28/11 *	2380	2685	2890	165
HSUR/L4.75/9 *	1785	2015	2025	165
HSUR/L4.75/11 *	2380	2685	2890	165
HSUR/L4.75/14 *	2975	3330	3330	165
HSUR/L4.75/16 *	3330	3330	3330	165
HSUR/L5.12/9 *	1785	2015	2025	165
HSUR/L5.12/11 *	2380	2685	2890	165
HSUR/L5.12/14 *	2975	3330	3330	165
HSUR/L5.12/16 *	3330	3330	3330	165

SKH_L/R		ESR-1781		
SKHH_L/R		No ICC-ES Code Listing		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
SKHH26L/R-2	1680	1930	2100	895
SKHH210L/R-2	2800	3220	3500	1345
SKHH210L/R-2	2800	3220	3500	1345
SKHH46L/R	1680	1930	2100	1345
SKHH410L/R	2800	3220	3500	2240
SKHH414L/R	3640	4185	4550	2240
SKH2020L/R-2	1665	1915	2085	1905
SKH2024L/R-2	1905	2190	2380	1905
SKH2024L/R-2	1905	2190	2380	1905
SKH2024L/R-2	1905	2190	2380	1905
SKH2020L/R-2	1665	1915	2085	1905
SKH2024L/R-2	1905	2190	2380	1905
SKH2320L/R-2	1665	1915	2085	1905
SKH2324L/R-2	1905	2190	2380	1905
SKH2324L/R-2	1905	2190	2380	1905
SKH2324L/R-2	1905	2190	2380	1905
SKH2324L/R-2	1905	2190	2380	1905
SKH2520L/R-2	1665	1915	2085	1905
SKH2524L/R-2	1905	2190	2380	1905
SKH2524L/R-2	1905	2190	2380	1905
SKH2524L/R-2	1905	2190	2380	1905

\*Not listed in ESR-2549

HT		No Code Listings				
Simpson Stock No.	DF / SP Design Load					
	Tension		Uplift		F1	
	100%	160%	100%	160%	100%	160%
1212HT	2585	2585	2585	2585	815	815
1616HT	2585	2585	2585	2585	815	815

TH		No Code Listings					
USP Stock No.	DF / SP Design Load						
	Tension		Uplift		F1		
	100%	160%	100%	160%	100%	160%	
TH12-O	---	---	---	---	---	---	
TH16-O	---	---	---	---	---	---	

HTC		No Code Listing			
Simpson Stock No.	Plate Size	DF / SP Design Load (160%)			
		Without Gap		With 1/4" Max Gap	
		F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
HTC	2 x 4	390	305	85	280

HTC		Submitted to IAPMO-ES			
USP Stock No.	Plate Size	DF / SP Design Load (160%)			
		Without Gap		With 1/4" Gap	
		F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
HTC4	2 x 4	255	525	55	295

HTS		ESR-2613	
Simpson Stock No.	DF / SP Design Load		
	Uplift 160%		
	10d x 1-1/2	10d	
HTS16	1150	1260	
HTS20	1450	1450	
HTS24	1450	1450	
HTS28	1450	1450	
HTS30	1450	1450	
HTS30C	1450	1450	

HTW		ESR-2104	
USP Stock No.	DF / SP Design Load		
	Uplift 160%		
	10d x 1-1/2	10d	
HTW16	1260	1260	
HTW20	1530	1530	
HTW24	1530	1530	
HTW28	1530	1530	
HTW30	1530	1530	
HTW30C	1530	1530	

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HTSM		No ICC-ES or IAPMO Code Listing	
Simpson Stock No.	DF / SP Design Load		Uplift 160%
	DF / SP	SPF / HF	
HTSM16			1175
HTSM20			1175

HTT				ER-130	
Simpson Stock No.	Tension 160%		Deflection $\Delta$ (in) 160%		
	DF / SP	SPF / HF			
HTT4	3610	3105	0.086		
	---	---	---		
HTT5	4235	3640	0.123		
	4350	3740	0.120		
	4670	4015	0.116		
	5295 **	4555	0.135		

\*\*Allowable tension load with a BP5/8-2 bearing plate washer installed in seat of HTT5.

HTU					ESR-2549				
Simpson Stock No.	DF-L / SP Design Load				Uplift 160%				
	Floor 100%	Roof							
		115%	125%						
HTU26	2940	3045	3045		730				
HTU26 (Min)	2940	3200	3200		1250				
HTU26 (Max)	2940	3340	3600		1555				
HTU28 (Min)	3820	3895	3895		1235				
HTU28 (Max)	3820	4340	4680		2140				
HTU210 (Min)	4355	4355	4355		1330				
HTU210 (Max)	4705	5345	5760		3315				
HTU26-2 (Min)	2940	3340	3600		1515				
HTU26-2 (Max)	2940	3340	3600		2175				
HTU28-2 (Min)	3820	4310	4310		1530				
HTU28-2 (Max)	3820	4340	4680		3485				
HTU210-2 (Min)	4705	4815	4815		1755				
HTU210-2 (Max)	4705	5345	5760		4110				

HU / HUC <sup>1</sup>					ESR-2552				
Simpson Stock No.	DF-L / SP Design Load				Uplift 160%				
	Floor 100%	Roof							
		115%	125%						
HU26	595	670	720		335				
HUC26	595	670	720		335				
HU28	895	1005	1085		610				
HUC28	895	1005	1085		610				
HU210	1190	1345	1445		610				
HU212	1490	1680	1805		1135				
HU214	1785	2015	2165		1135				
HU216 *	2680	3020	3250		1515				
HU24-2	595	670	720		380				
HUC24-2	595	670	720		380				
HU26-2 (Min)	1190	1345	1445		760				
HU26-2 (Max)	1785	2015	2165		1135				
HUC26-2 (Min)	1190	1345	1445		760				
HUC26-2 (Max)	1785	2015	2165		1135				

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.

\*Not listed in ESR-2552

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HTWM		No ICC-ES or IAPMO Code Listing	
USP Stock No.	DF / SP Design Load		Uplift 160%
	DF / SP	SPF / HF	
HTWM16			1225
HTWM20			1225

HTT				ER-0200	
USP Stock No.	Tension 160%		Deflection $\Delta$ (in) 160%		
	DF / SP	SPF / HF			
HTT4	2715	2335	0.095		
	3295	2835	0.098		
	4465	3840	0.143		
HTT5	3225	2775	0.088		
	4745	4080	0.122		
	5430	4670	0.141		

THD					ESR-1781				
USP Stock No.	DF-L / SP Design Load				Uplift 160%				
	Floor 100%	Roof							
		115%	125%						
THD26	2485	2855	3060		2170				
THD26	2485	2855	3060		2170				
THD26	2485	2855	3060		2170				
THD28	3865	3965	3965		2330				
THD28	3865	3965	3965		2330				
THD210	5075	5115	5115		3095				
THD210	5075	5115	5115		3095				
THD26-2	2540	2920	3175		2285				
THD26-2	2540	2920	3175		2285				
THD28-2	3950	4540	4935		2595				
THD28-2	3950	4540	4935		2595				
THD210-2	5360	6160	6700		3810				
THD210-2	5360	6160	6700		3810				

HD / HDIF <sup>1</sup> JLIF					ESR-1781				
Submitted to IAPMO-ES									
USP Stock No.	DF-L / SP Design Load				Uplift 160%				
	Floor 100%	Roof							
		115%	125%						
HD26	565	650	705		290				
JL26IF-TZ	830	950	1035		730				
HD28	1130	1295	1410		730				
JL28IF-TZ	1105	1215	1215		730				
HD210	1690	1945	2115		730				
HD212	2255	2595	2730		1065				
HD214	2560	2660	2730		1065				
HD216	2785	2925	3015		1065				
HD24-2	565	650	705		320				
HD24-2IF	565	650	705		320				
HD26-2	1690	1945	2095		1140				
HD26-2	1690	1945	2095		1140				
HD26-2IF	1690	1945	2095		1140				
HD26-2IF	1690	1945	2095		1140				

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

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SIMPSON Strong-Tie Connectors®

USP Structural Connectors®

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HU / HUC <sup>1</sup>		ESR-2552		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HU28-2 (Min) *	1490	1680	1805	760
HU28-2 (Max) *	2085	2350	2530	1135
HUC28-2 (Min) *	1490	1680	1805	760
HUC28-2 (Max) *	2085	2350	2530	1135
HU210-2 (Min)	2085	2350	2530	1135
HU210-2 (Max)	2680	3020	3250	1895
HUC210-2 (Min)	2085	2350	2530	1135
HUC210-2 (Max)	2680	3020	3250	1895
HU212-2 (Min)	2380	2685	2890	1135
HU212-2 (Max)	3275	3695	3970	1895
HUC212-2 (Min)	2380	2685	2890	1135
HUC212-2 (Max)	3275	3695	3970	1895
HU214-2 (Min)	2680	3020	3250	1515
HU214-2 (Max)	3570	4030	4335	2015
HUC214-2 (Min)	2680	3020	3250	1515
HUC214-2 (Max)	3570	4030	4335	2015
HU216-2 (Min)	2975	3360	3610	1515
HU216-2 (Max)	3870	4365	4695	2015
HUC216-2 (Min)	2975	3360	3610	1515
HUC216-2 (Max)	3870	4365	4695	2015
HU26-3 (Min) *	1190	1345	1445	760
HU26-3 (Max) *	1785	2015	2165	1315
HUC26-3 (Min) *	1190	1345	1445	760
HUC26-3 (Max) *	1785	2015	2165	1315
HU210-3 (Min)	2085	2350	2530	1135
HU210-3 (Max)	2680	3020	3250	1895
HUC210-3 (Min)	2085	2350	2530	1135
HUC210-3 (Max)	2680	3020	3250	1895
HU212-3 (Min)	2380	2685	2890	1135
HU212-3 (Max)	3275	3695	3970	1895
HUC212-3 (Min)	2380	2685	2890	1135
HUC212-3 (Max)	3275	3695	3970	1895
HU214-3 (Min)	2680	3020	3250	1515
HU214-3 (Max)	3570	4030	4335	2015
HUC214-3 (Min)	2680	3020	3250	1515
HUC214-3 (Max)	3570	4030	4335	2015
HU216-3 (Min)	2975	3360	3610	1515
HU216-3 (Max)	3870	4365	4695	2015
HUC216-3 (Min)	2975	3360	3610	1515
HUC216-3 (Max)	3870	4365	4695	2015
HU210-4 (Min) *	2085	2350	2530	1345
HU210-4 (Max) *	2680	3020	3250	1795
HUC210-4 (Min) *	2085	2350	2530	1345
HUC210-4 (Max) *	2680	3020	3250	1795
HU3.25/10.5	3275	3695	3970	1895
HUC3.25/10.5	3275	3695	3970	1895

HD / HDIF <sup>1</sup>		ESR-1781		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HD28-2	1975	2270	2470	1140
HD28-2	1975	2270	2470	1140
HD28-2IF	1975	2270	2470	1140
HD28-2IF	1975	2270	2470	1140
HD210-2	2540	2920	3175	1905
HD210-2	2540	2920	3175	1905
HD210-2IF	2540	2920	3175	1905
HD210-2IF	2540	2920	3175	1905
HD212-2	3100	3565	3880	1905
HD212-2	3100	3565	3880	1905
HD212-2IF	3100	3565	3880	1905
HD212-2IF	3100	3565	3880	1905
HD214-2	3385	3890	4230	1905
HD214-2	3385	3890	4230	1905
HD214-2IF	3385	3890	4230	1905
HD214-2IF	3385	3890	4230	1905
HD216-2	3665	4215	4570	2285
HD216-2	3665	4215	4570	2285
HD216-2IF	3665	4215	4570	2285
HD216-2IF	3665	4215	4570	2285
HD26-3	1690	1945	2095	1140
HD26-3	1690	1945	2095	1140
HD26-3IF	1690	1945	2095	1140
HD26-3IF	1690	1945	2095	1140
HD210-3	2540	2920	3175	1905
HD210-3	2540	2920	3175	1905
HD210-3IF	2540	2920	3175	1905
HD210-3IF	2540	2920	3175	1905
HD212-3	3100	3565	3880	1905
HD212-3	3100	3565	3880	1905
HD212-3IF	3100	3565	3880	1905
HD212-3IF	3100	3565	3880	1905
HD214-3	3385	3890	4230	1905
HD214-3	3385	3890	4230	1905
HD214-3IF	3385	3890	4230	1905
HD214-3IF	3385	3890	4230	1905
HD216-3	3665	4215	4570	2285
HD216-3	3665	4215	4570	2285
HD216-3IF	3665	4215	4570	2285
HD216-3IF	3665	4215	4570	2285
HD210-4	3385	3890	4230	1140
HD210-4	3385	3890	4230	1140
HD210-4IF	3385	3890	4230	1140
HD210-4IF	3385	3890	4230	1140
HD32105	3100	3565	3880	1905
HD32105IF	3100	3565	3880	1905

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.  
\*Not listed in ESR-2552

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

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## SIMPSON Strong-Tie Connectors®

HU / HUC <sup>1</sup>		ESR-2552		
Simpson Stock No.	Floor 100%	DF-L / SP Design Load		Uplift 160%
		Roof		
		115%	125%	
HU3.25/12	3570	4030	4335	2015
HUC3.25/12	3570	4030	4335	2015
HU34	595	670	720	380
HUC34	595	670	720	380
HU36	1190	1345	1445	610
HUC36	1190	1345	1445	610
HU38	1490	1680	1805	610
HUC38	1490	1680	1805	610
HU310	2085	2350	2530	915
HUC310	2085	2350	2530	915
HU312	2380	2685	2890	915
HUC312	2380	2685	2890	915
HU314	2680	3020	3250	1515
HUC314	2680	3020	3250	1515
HU316	2975	3360	3610	1515
HUC316	2975	3360	3610	1515
HU44	595	670	720	380
HUC44	595	670	720	380
HU46 (Min)	1190	1345	1445	760
HU46 (Max)	1785	2015	2165	1135
HUC46 (Min)	1190	1345	1445	760
HUC46 (Max)	1785	2015	2165	1135
HU48 (Min)	1490	1680	1805	760
HU48 (Max)	2085	2350	2530	1135
HUC48 (Min)	1490	1680	1805	760
HUC48 (Max)	2085	2350	2530	1135
HU410 (Min)	2085	2350	2530	1135
HU410 (Max)	2680	3020	3250	1895
HUC410 (Min)	2085	2350	2530	1135
HUC410 (Max)	2680	3020	3250	1895
HU412 (Min)	2380	2685	2890	1135
HU412 (Max)	3275	3695	3970	1895
HUC412 (Min)	2380	2685	2890	1135
HUC412 (Max)	3275	3695	3970	1895
HU414 (Min)	2680	3020	3250	1515
HU414 (Max)	3570	4030	4335	2015
HUC414 (Min)	2680	3020	3250	1515
HUC414 (Max)	3570	4030	4335	2015
HU416 (Min)	2975	3360	3610	1515
HU416 (Max)	3870	4365	4695	2015
HUC416 (Min)	2975	3360	3610	1515
HUC416 (Max)	3870	4365	4695	2015
HU4.12/9 (Min)	2085	2350	2530	1135
HU4.12/9 (Max)	2680	3020	3250	1895
HUC4.12/9 (Min)	2085	2350	2530	1135
HUC4.12/9 (Max)	2680	3020	3250	1895

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.

## USP Structural Connectors®

HD / HDIF <sup>1</sup> THF		ESR-1781		
USP Stock No.	Floor 100%	DF-L / SP Design Load		Uplift 160%
		Roof		
		115%	125%	
HD3212	3385	3890	4230	1905
HD3212IF	3385	3890	4230	1905
HD34	565	650	705	290
HD34IF	565	650	705	290
HD36	1130	1295	1410	730
HD36IF	1130	1295	1410	730
HD38	1690	1945	2115	730
HD38IF	1690	1945	2115	730
HD310	1975	2270	2470	1065
HD310IF	1975	2270	2470	1065
HD312	2255	2595	2820	1065
HD312IF	2255	2595	2820	1065
HD314	2820	3245	3525	1065
HD314IF	2820	3245	3525	1065
HD316	3385	3890	4230	1065
HD316IF	3385	3890	4230	1065
HD44	565	650	705	320
HD44IF	565	650	705	320
HD46	1690	1945	2095	1140
HD46IF	1690	1945	2095	1140
HD46IF	1690	1945	2095	1140
HD46IF	1690	1945	2095	1140
HD48	1975	2270	2470	1140
HD48IF	1975	2270	2470	1140
HD48IF	1975	2270	2470	1140
HD410	2540	2920	3175	1905
HD410IF	2540	2920	3175	1905
HD410IF	2540	2920	3175	1905
HD412	3100	3565	3880	1905
HD412IF	3100	3565	3880	1905
HD412IF	3100	3565	3880	1905
HD414	3385	3890	4230	1905
HD414IF	3385	3890	4230	1905
HD414IF	3385	3890	4230	1905
HD416	3665	4215	4570	2285
HD416IF	3665	4215	4570	2285
HD416IF	3665	4215	4570	2285
THF20925-2	1390	1600	1740	1115
THF20925-2IF	1390	1600	1740	1115
THF20925-2IF	1390	1600	1740	1115
THF20925-2IF	1390	1600	1740	1115

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

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**SIMPSON Strong-Tie Connectors®**

**USP Structural Connectors®**

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HU / HUC <sup>1</sup>		ESR-2552			
Simpson Stock No.	DF-L / SP Design Load				Uplift 160%
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
HU4.12/11 (Min)	2380	2685	2890	1135	
HU4.12/11 (Max)	3275	3695	3970	1895	
HUC4.12/11 (Min)	2380	2685	2890	1135	
HUC4.12/11 (Max)	3275	3695	3970	1895	
HU4.28/9	2680	3020	3250	1515	
HUC4.28/9	2680	3020	3250	1515	
HU4.28/11	3275	3695	3970	1515	
HUC4.28/11	3275	3695	3970	1515	
HU5.125/12	3275	3695	3970	1795	
HUC5.125/12	3275	3695	3970	1795	
HU5.125/13.5	3870	4365	4695	2695	
HUC5.125/13.5	3870	4365	4695	2695	
HU5.125/16	3870	4365	4695	2695	
HUC5.125/16	3870	4365	4695	2695	
HU66 (Min)	1190	1345	1445	900	
HU66 (Max)	1785	2015	2165	1345	
HUC66 (Min)	1190	1345	1445	900	
HUC66 (Max)	1785	2015	2165	1345	
HU68 (Min)	1490	1680	1805	900	
HU68 (Max)	2085	2350	2530	1345	
HUC68 (Min)	1490	1680	1805	900	
HUC68 (Max)	2085	2350	2530	1345	
HU610 (Min)	2085	2350	2530	1345	
HU610 (Max)	2680	3020	3250	1795	
HUC610 (Min)	2085	2350	2530	1345	
HUC610 (Max)	2680	3020	3250	1795	
HU612 (Min)	2380	2685	2890	1345	
HU612 (Max)	3275	3695	3970	1795	
HUC612 (Min)	2380	2685	2890	1345	
HUC612 (Max)	3275	3695	3970	1795	
HU614 (Min)	2680	3020	3250	1795	
HU614 (Max)	3570	4030	4335	2695	
HUC614 (Min)	2680	3020	3250	1795	
HUC614 (Max)	3570	4030	4335	2695	
HU616 (Min)	2975	3360	3610	1795	
HU616 (Max)	3870	4365	4695	2695	
HUC616 (Min)	2975	3360	3610	1795	
HUC616 (Max)	3870	4365	4695	2695	
HU88 (Min) *	1490	1680	1805	900	
HU88 (Max) *	2085	2350	2530	1345	
HUC88 (Min) *	1490	1680	1805	900	
HUC88 (Max) *	2085	2350	2530	1345	
HU810 (Min) *	2085	2350	2530	1345	
HU810 (Max) *	2680	3020	3250	1795	
HUC810 (Min) *	2085	2350	2530	1345	
HUC810 (Max) *	2680	3020	3250	1795	
HU812 (Min) *	2380	2685	2890	1345	
HU812 (Max) *	3275	3695	3970	1795	

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.  
\*Not listed in ESR-2552

HD / HDIF <sup>1</sup> GHF THF		ESR-1781 No Code Listing ESR-1781			
USP Stock No.	DF-L / SP Design Load				Uplift 160%
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
THF20112-2	1855	2135	2320	1115	
THF20112-2	1855	2135	2320	1115	
THF20112-2IF	1855	2135	2320	1115	
THF20112-2IF	1855	2135	2320	1115	
THF20925-2	1390	1600	1740	1115	
THF20925-2IF	1390	1600	1740	1115	
THF20112-2	1855	2135	2320	1115	
THF20112-2IF	1855	2135	2320	1115	
HD5112	3100	3565	3880	1905	
GHF51120IF	5255	6045	6570	2100	
HD51135	3665	4215	4570	2285	
GHF51135IF	6500	7475	8125	2400	
THF25160-2	3050	3505	3810	1220	
THF25160-2IF	3050	3505	3810	1220	
HD66	1690	1945	2095	1140	
HD66	1690	1945	2095	1140	
HD66IF	1690	1945	2095	1140	
HD66IF	1690	1945	2095	1140	
HD68	1975	2270	2470	1140	
HD68	1975	2270	2470	1140	
HD68IF	1975	2270	2470	1140	
HD68IF	1975	2270	2470	1140	
HD610	2540	2920	3175	1905	
HD610	2540	2920	3175	1905	
HD610IF	2540	2920	3175	1905	
HD610IF	2540	2920	3175	1905	
HD612	3100	3565	3880	1905	
HD612	3100	3565	3880	1905	
HD612IF	3100	3565	3880	1905	
HD612IF	3100	3565	3880	1905	
HD614	3385	3890	4230	1905	
HD614	3385	3890	4230	1905	
HD614IF	3385	3890	4230	1905	
HD614IF	3385	3890	4230	1905	
HD616	3665	4215	4570	2285	
HD616	3665	4215	4570	2285	
HD616IF	3665	4215	4570	2285	
HD616IF	3665	4215	4570	2285	
HD88	1975	2270	2470	1355	
HD88	1975	2270	2470	1355	
HD88IF	1975	2270	2470	1355	
HD88IF	1975	2270	2470	1355	
HD810	2540	2920	3175	1805	
HD810	2540	2920	3175	1805	
HD810IF	2540	2920	3175	1805	
HD810IF	2540	2920	3175	1805	
HD812	3100	3565	3880	1805	
HD812	3100	3565	3880	1805	

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

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## SIMPSON Strong-Tie Connectors®

HU / HUC <sup>1</sup>		ESR-2552			
Simpson Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
HUC812 (Min) *	2380	2685	2890	1345	
HUC812 (Max) *	3275	3695	3970	1795	
HU814 (Min) *	2680	3020	3250	1795	
HU814 (Max) *	3570	4030	4335	2695	
HUC814 (Min) *	2680	3020	3250	1795	
HUC814 (Max) *	3570	4030	4335	2695	
HU816 (Min) *	2975	3360	3610	1795	
HU816 (Max) *	3870	4365	4695	2695	
HUC816 (Min) *	2975	3360	3610	1795	
HUC816 (Max) *	3870	4365	4695	2695	
HU7 (Min)	1785	2015	2165	610	
HU7 (Max)	2380	2685	2890	1515	
HU9 (Min)	2680	3020	3250	915	
HU9 (Max)	3570	4030	4335	1895	
HU1.81/5 (Min) *	1785	2015	2165	610	
HU1.81/5 (Max) *	2380	2685	2890	915	
HU11 (Min)	3275	3695	3970	915	
HU11 (Max)	4465	4705	4810	1895	
HU14 (Min)	4165	4420	4505	1515	
HU14 (Max)	5055	5275	5420	2015	
HU310-2	2085	2350	2530	1135	
HUC310-2	2085	2350	2530	1135	
HU312-2	2380	2685	2890	1135	
HUC312-2	2380	2685	2890	1135	
HU314-2	2680	3020	3250	1515	
HUC314-2	2680	3020	3250	1515	
HU359 (Min)	2085	2350	2530	915	
HU359 (Max)	2680	3020	3250	1895	
HU3511 (Min)	2380	2685	2890	915	
HU3511 (Max)	3275	3695	3970	1895	
HUC3511 (Min)	2380	2685	2890	915	
HUC3511 (Max)	3275	3695	3970	1895	
HU3514 (Min)	2680	3020	3250	1515	
HU3514 (Max)	3570	4030	4335	2015	
HUC3514 (Min)	2680	3020	3250	1515	
HUC3514 (Max)	3570	4030	4335	2015	
HU3516/22	2975	3360	3610	1515	
HUC3516/22	2975	3360	3610	1515	
HU3524/30 (Min)	2680	3020	3250	1515	
HU3524/30 (Max)	3570	4030	4335	2015	
HU4.75/9	2680	3020	3250	1515	
HUC4.75/9	2680	3020	3250	1515	
HU4.75/11	3275	3695	3970	1515	
HUC4.75/11	3275	3695	3970	1515	
HU3514-2	2680	3020	3250	1515	
HUC3514-2	2680	3020	3250	1515	

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.

\*Not listed in ESR-2552

## USP Structural Connectors®

HD / HDIF <sup>1</sup>		ESR-1781			
HUS		ESR-1881			
THF		ESR-1781			
USP Stock No.	DF-L / SP Design Load				
	Floor 100%	Roof		Uplift 160%	
		115%	125%		
HD812IF	3100	3565	3880	1805	
HD812IF	3100	3565	3880	1805	
HD814	3385	3890	4230	2705	
HD814	3385	3890	4230	2705	
HD814IF	3385	3890	4230	2705	
HD814IF	3385	3890	4230	2705	
HD816	3665	4215	4465	2705	
HD816	3665	4215	4465	2705	
HD816IF	3665	4215	4465	2705	
HD816IF	3665	4215	4465	2705	
HD1770	1975	2270	2335	730	
HD1770	1975	2270	2335	730	
HD17925	2540	2775	2775	1065	
HD17925	2540	2775	2775	1065	
HUS175	2635	3030	3295	1925	
HUS175	2635	3030	3295	1925	
HD17112	2870	2975	3045	1065	
HD17112	2870	2975	3045	1065	
HD1714	3100	3235	3330	1065	
HD1714	3100	3235	3330	1065	
HD310-2	2540	2920	3175	1905	
HD310-2IF	2540	2920	3175	1905	
HD310-2	2540	2920	3175	1905	
HD310-2IF	2540	2920	3175	1905	
THF25140-2	2540	2920	3175	1220	
THF25140-2IF	2540	2920	3175	1220	
THF23925	1370	1575	1710	175	
THF23925	1370	1575	1710	175	
THF23118	1595	1835	1995	360	
THF23118	1595	1835	1995	360	
THF23118IF	1595	1835	1995	360	
THF23118IF	1595	1835	1995	360	
THF23140	2090	2400	2610	360	
THF23140	2090	2400	2610	360	
THF23140IF	2090	2400	2610	360	
THF23140IF	2090	2400	2610	360	
THF23160	2550	2935	3035	360	
THF23160IF	2550	2935	3035	360	
THF23180	2785	3200	3480	1295	
THF23180	2785	3200	3480	1295	
THF23925-2	1625	1870	2030	1115	
THF23925-2IF	1625	1870	2030	1115	
THF23118-2	1855	2135	2320	1115	
THF23118-2IF	1855	2135	2320	1115	
THF23140-2	2540	2920	3175	1220	
THF23140-2IF	2540	2920	3175	1220	

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

continued on next page



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HU / HUC <sup>1</sup>		ESR-2552		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HU3516-2 (Min)	2975	3360	3610	1515
HU3516-2 (Max)	3870	4365	4695	2015
HUC3516-2 (Min)	2975	3360	3610	1515
HUC3516-2 (Max)	3870	4365	4695	2015
HU3520-2 (Min)	2975	3360	3610	1515
HU3520-2 (Max)	3870	4365	4695	2015
HU410-2 (Min)	2085	2350	2530	1345
HU410-2 (Max)	2680	3020	3250	1795
HUC410-2 (Min)	2085	2350	2530	1345
HUC410-2 (Max)	2680	3020	3250	1795
HU412-2 (Min)	2380	2685	2890	1345
HU412-2 (Max)	3275	3695	3970	1795
HUC412-2 (Min)	2380	2685	2890	1345
HUC412-2 (Max)	3275	3695	3970	1795
HU414-2 (Min)	2975	3360	3610	1795
HU414-2 (Max)	3870	4365	4695	2695
HUC414-2 (Min)	2975	3360	3610	1795
HUC414-2 (Max)	3870	4365	4695	2695

HD / HDIF <sup>1</sup> THF		ESR-1781		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
THF23160-2	3050	3505	3810	1220
THF23160-2	3050	3505	3810	1220
THF23160-2IF	3050	3505	3810	1220
THF23160-2IF	3050	3505	3810	1220
THF23160-2	3050	3505	3810	1220
THF23160-2	3050	3505	3810	1220
HD7100	1690	1945	2115	1140
HD7100	1690	1945	2115	1140
HD7100IF	1690	1945	2115	1140
HD7100IF	1690	1945	2115	1140
HD7120	2255	2595	2820	1140
HD7120	2255	2595	2820	1140
HD7120IF	2255	2595	2820	1140
HD7120IF	2255	2595	2820	1140
HD7140	2820	3245	3525	1525
HD7140	2820	3245	3525	1525
HD7140IF	2820	3245	3525	1525
HD7140IF	2820	3245	3525	1525

<sup>1</sup>HUC concealed flange hangers have the same design loads as HU models.

<sup>1</sup>HDIF inverted flange hangers have the same design loads as HD models.

HUCQ		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HUCQ1.81/9-SDS	2000	2300	2500	1505
HUCQ1.81/11-SDS	2500	2875	3125	1505
HUCQ310-SDS	3120	3590	3900	1370
HUCQ210-2-SDS	4680	4955	4955	2510
HUCQ410-SDS	4680	4955	4955	2510
HUCQ412-SDS	5460	5560	5560	2510
HUCQ210-3-SDS	4680	4955	4955	2510
HUCQ5.25/9-SDS	4680	4955	4955	2510
HUCQ5.25/11-SDS	5460	5560	5560	2510
HUCQ610-SDS	4680	5380	5715	2520
HUCQ612-SDS	5315	5315	5315	2520

HDQIF		Submitted to IAPMO-ES		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HDQ179IF	3010	3380	3380	1050
HDQ17112IF	3340	3340	3340	1575
HDQ310IF	3010	3380	3380	1050
HDQ210-2IF	4510	5190	5590	2975
HDQ410IF	4510	5190	5590	2975
HDQ412IF	5265	5590	5590	2975
HDQ210-3IF	4510	5190	5590	2975
HDQ5210IF	4510	5190	5590	2975
HDQ5212IF	5265	5590	5590	2975
HDQ610IF	4510	5190	5590	2975
HDQ612IF	5265	5590	5590	2975

HUITF		No Code Listing			
Simpson Stock No.	Design Load				
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	Uplift 160%
HUI414TF	4830	4830	4830	4830	1500

HDO		ESR-1781			
USP Stock No.	Design Load				
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	Uplift 160%
HDO414	5175	5175	5175	5175	1625

## SIMPSON Strong-Tie Connectors®

HUS		ESR-2549		
HUSC <sup>1</sup>		DF-L / SP Design Load		
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HUS26	2720	3095	3335	1550
HUS28	3965	4120	4220	2000
HUS210	4255	4445	4575	3000
HUS1.81/10 *	5135	5295	5400	3000
HUS26-2	1065	1210	1305	1235
HUS28-2	1595	1815	1960	1550
HUS210-2	2125	2420	2615	3295
HUS212-2	2660	3025	3265	3635
HUS46	1065	1210	1305	1235
HUS48	1595	1815	1960	1550
HUS410	2125	2420	2615	3295
HUS412	2660	3025	3265	3635

<sup>1</sup>HUSC concealed flange hangers have the same design loads as HUS models.

\*Not listed in ESR-2549

HUSTF		ESR-2553		
HUSCTF <sup>1</sup>		DF-L / SP Design Load		
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HUS26-2TF	2820	3000	3000	1235
HUS28-2TF	3455	3720	3895	1550
HUS210-2TF	3585	3925	4155	2590
HUS212-2TF	4435	4535	4605	2000
HUS214-2TF	4435	4535	4605	2590
HUS46TF	2700	2890	3000	1235
HUS48TF	3225	3495	3670	1550
HUS410TF	3365	3710	3935	2590
HUS412TF	4420	4760	4990	2000
HUS414TF	4765	5100	5100	2160

<sup>1</sup>HUSCTF concealed flange hangers are available in 2-2x and 4x at the same design loads as HUSTF models.

HUTF		ESR-2553		
HUCTF <sup>1</sup>		DF-L / SP Design Load		
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HU24TF	2090	2100	2100	295
HU26TF	2275	2330	2335	590
HU28TF	2335	2335	2335	590
HU210TF	2335	2335	2335	590
HU212TF	2335	2335	2335	885
HU214TF	2660	2745	2800	885
HU216TF	2845	2955	3030	1180
HU34TF	2600	2600	2600	295
HU36TF	3725	3900	3900	590
HU38TF	3900	3900	3900	590
HU310TF	4170	4170	4170	885

<sup>1</sup>HUCTF concealed flange hangers are available in widths of 2-9/16" or greater at 0.85 of the table load.

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HUS		ESR-1881		
HUSIF <sup>1</sup>		DF-L / SP Design Load		
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HUS26	2635	3030	3295	1925
HUS28	3970	4345	4345	2570
HUS210	5310	5510	5510	3205
HUS179	5310	5510	5510	3205
HUS26-2	1030	1185	1290	1115
HUS28-2	1550	1780	1935	1810
HUS210-2	2065	2375	2580	2210
HUS212-2	2580	2965	3225	3060
HUS46	1030	1185	1290	1115
HUS48	1550	1780	1935	1810
HUS410	2065	2375	2580	2210
HUS412	2580	2965	3225	3060

<sup>1</sup>HUSIF inverted flange hangers are available in widths 2-1/4" or greater at the same design loads as HUS models.

HDO		ESR-1781		
HDOIF <sup>1</sup>		DF-L / SP Design Load		
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HDO26-2	3050	3050	3050	815
HDO28-2	3825	3825	3825	815
HDO210-2	4565	4565	4565	1220
HDO212-2	4880	5230	5465	1220
HDO214-2	5175	5410	5410	1625
HDO46	3050	3050	3050	815
HDO48	3825	3825	3825	815
HDO410	4565	4565	4565	1220
HDO412	4880	5230	5465	1220
HDO414	5175	5410	5410	1625

<sup>1</sup>HDOIF inverted flange hangers are available in widths of 3-1/8" or greater at the same design loads as HDO models.

HDO		ESR-1781		
HDOIF <sup>1</sup>		DF-L / SP Design Load		
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HDO24	2170	2170	2170	315
HDO26	2590	2615	2615	770
HDO28	2590	2660	2710	755
HDO210	2590	2660	2710	725
HDO212	2355	2355	2355	1150
HDO214	2830	2935	3010	1050
HDO216	3070	3215	3310	1535
HDO34	2665	2665	2665	315
HDO36	3010	3010	3010	770
HDO38	3605	3605	3605	755
HDO310	4165	4165	4165	1150

<sup>1</sup>HDOIF inverted flange hangers are available in widths of 3-1/8" or greater at the same design loads as HDO models.

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HUTF <span style="float: right;">ESR-2553</span>				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HU312TF	4335	4335	4335	885
HU314TF	4335	4335	4335	1180
HU316TF	4335	4335	4335	1180
HU24-2TF	2600	2600	2600	375
HU26-2TF	3725	3900	3900	750
HU28-2TF	3900	3900	3900	750
HU210-2TF	4170	4170	4170	1125
HU212-2TF	4325	4660	4880	1125
HU214-2TF	4335	4335	4335	1500
HU216-2TF	4335	4335	4335	1500
HU44TF	2600	2600	2600	375
HU46TF	3165	3165	3165	750
HU48TF	3500	3500	3500	750
HU410TF	4150	4150	4150	1125
HU412TF	4550	4885	5105	1125
HU414TF	4830	5050	5050	1500
HU416TF	5050	5050	5050	1500
HU210-3TF	4150	4150	4150	1325
HU212-3TF	4550	4885	5105	1325
HU214-3TF	4835	5050	5050	1765
HU216-3TF	5050	5050	5050	1765
HU66TF	3165	3165	3165	885
HU68TF	3500	3500	3500	885
HU610TF	4150	4150	4150	1325
HU612TF	4550	4885	5105	1325
HU614TF	4830	5200	5450	1765
HU616TF	5105	5520	5795	1765

HDO <span style="float: right;">ESR-1781</span>				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HDO312	4475	4475	4475	1150
HDO314	4475	4475	4475	1315
HDO316	4865	5010	5105	1535
HDO24-2	2445	2445	2445	405
HDO26-2	3050	3050	3050	815
HDO28-2	3825	3825	3825	815
HDO210-2	4565	4565	4565	1220
HDO212-2	4880	5230	5465	1220
HDO214-2	5175	5410	5410	1625
HDO216-2	5475	5855	5960	1625
HDO44	2445	2445	2445	405
HDO46	3050	3050	3050	815
HDO48	3825	3825	3825	815
HDO410	4565	4565	4565	1220
HDO412	4880	5230	5465	1220
HDO414	5175	5410	5410	1625
HDO416	5475	5915	6210	1625
HDO210-3	4565	4565	4565	1430
HDO212-3	4880	5230	5465	1430
HDO214-3	5175	5410	5410	1710
HDO216-3	5475	5915	6210	1905
HDO66	3050	3050	3050	955
HDO68	3825	3825	3825	955
HDO610	4565	4565	4565	1430
HDO612	4880	5230	5465	1430
HDO614	5175	5410	5410	1710
HDO616	5475	5915	6210	1905

<sup>1</sup>HUCTF concealed flange hangers are available in widths of 2-9/16" or greater at 0.85 of the table load.

<sup>1</sup>HDOIF inverted flange hangers are available in widths of 3-1/8" or greater at the same design loads as HDO models.

HW <span style="float: right;">ESR-2553</span>				
Simpson Stock No.	DF-L / SP Design Load			
	Download			
	100%	115%	125%	
HW46	5285	5285	5285	
HW48	5285	5285	5285	
HW410	5285	5285	5285	
HW412	5285	5285	5285	
HW414	5285	5285	5285	
HW416	5285	5285	5285	
HW66	5285	5285	5285	
HW68	5285	5285	5285	
HW610	5285	5285	5285	
HW612	5285	5285	5285	
HW614	5285	5285	5285	
HW616	5285	5285	5285	
HW86	5285	5285	5285	
HW88	5285	5285	5285	
HW810	5285	5285	5285	
HW812	5285	5285	5285	
HW814	5285	5285	5285	
HW816	5285	5285	5285	
HW3.25	5285	5285	5285	
HW5.25	5285	5285	5285	

KHW <span style="float: right;">ESR-2104</span>				
USP Stock No.	DF-L / SP Design Load			
	Download			
	100%	115%	125%	
KHW46	5335	5335	5335	
KHW48	5335	5335	5335	
KHW410	5335	5335	5335	
KHW412	5335	5335	5335	
KHW414	5335	5335	5335	
KHW416	5335	5335	5335	
KHW66	5335	5335	5335	
KHW68	5335	5335	5335	
KHW610	5335	5335	5335	
KHW612	5335	5335	5335	
KHW614	5335	5335	5335	
KHW616	5335	5335	5335	
KHW86	5335	5335	5335	
KHW88	5335	5335	5335	
KHW810	5335	5335	5335	
KHW812	5335	5335	5335	
KHW814	5335	5335	5335	
KHW816	5335	5335	5335	
KHW3	5295	5295	5295	
KHW5	5295	5295	5295	

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HWI		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	
HWI49.25	5100	4000	4500	5285	3665	
HWI49.5	5100	4000	4500	5285	3665	
HWI411.25	5100	4000	4500	5285	3665	
HWI411.88	5100	4000	4500	5285	3665	
HWI412	5100	4000	4500	5285	3665	
HWI414	5100	4000	4500	5285	3665	
HWI416	5100	4000	4500	5285	3665	
HWI418	5100	4000	4500	5285	3665	
HWI420	5100	4000	4500	5285	3665	
HWI422	5100	4000	4500	5285	3665	
HWI424	5100	4000	4500	5285	3665	
HWI426	5100	4000	4500	5285	3665	
HWI428	5100	4000	4500	5285	3665	
HWI430	5100	4000	4500	5285	3665	
HWI432	5100	4000	4500	5285	3665	
HWI418-2	5100	4000	4500	5285	3665	
HWI420-2	5100	4000	4500	5285	3665	
HWI422-2	5100	4000	4500	5285	3665	
HWI424-2	5100	4000	4500	5285	3665	
HWI426-2	5100	4000	4500	5285	3665	
HWI428-2	5100	4000	4500	5285	3665	
HWI430-2	5100	4000	4500	5285	3665	
HWI432-2	5100	4000	4500	5285	3665	

HWU		ESR-2615				
Simpson Stock No.	Design Load					Uplift 160%
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	
HWU3.56/9.25	6335	5500	5535	6335	5415	1135
HWU3.56/9.5	6335	5500	5535	6335	5415	1135
HWU3.56/11.25	6335	5500	5535	6335	5415	1135
HWU3.56/11.88	6335	5500	5535	6335	5415	1135
HWU3.56/14	6335	5500	5535	6335	5415	1135
HWU3.56/16	6335	5500	5535	6335	5415	1135
HWU3.56/18	6335	5500	5535	6335	5415	1135
HWU3.56/20	6335	5500	5535	6335	5415	765
HWU5.50/9.25	6000	5500	5535	6000	5415	1135
HWU5.50/9.5	6000	5500	5535	6000	5415	1135
HWU5.50/11.25	6000	5500	5535	6000	5415	1135
HWU5.50/11.88	6000	5500	5535	6000	5415	1135
HWU5.50/12	6000	5500	5535	6000	5415	1135
HWU5.50/14	6000	5500	5535	6000	5415	1135
HWU5.50/16	6000	5500	5535	6000	5415	1135
HWU5.50/18	6000	5500	5535	6000	5415	1135
HWU5.50/20	6000	5500	5535	6000	5415	765

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PHXU		ESR-2104				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	
PHXU35925	6650	5785	6420	5285	3590	
PHXU3595	6650	5785	6420	5285	3590	
PHXU35112	6650	5785	6420	5285	3590	
PHXU35118	6650	5785	6420	5285	3590	
BPH3512	3430	3510	3775	3430	3280	
PHXU3514	6650	5785	6420	5285	3590	
PHXU3516	6650	5785	6420	5285	3590	
PHXU3518	6650	5785	6420	5285	3590	
PHXU3520	6650	5785	6420	5285	3590	
PHXU3522	6650	5785	6420	5285	3590	
PHXU3524	6650	5785	6420	5285	3590	
PHXU3526	6650	5785	6420	5285	3590	
PHXU3528	6650	5785	6420	5285	3590	
PHXU3530	6650	5785	6420	5285	3590	
PHXU3532 *	6650	5785	6420	5285	3590	
PHXU7118	6650	5785	6650	5285	3590	
PHXU7120	6650	5785	6650	5285	3590	
PHXU7122	6650	5785	6650	5285	3590	
PHXU7124	6650	5785	6650	5285	3590	
PHXU7126	6650	5785	6650	5285	3590	
PHXU7128	6650	5785	6650	5285	3590	
PHXU7130	6650	5785	6650	5285	3590	
PHXU7132 *	6650	5785	6650	5285	3590	

\*Not listed in ESR-2104

PHXU		ESR-2104				
USP Stock No.	Design Load					Uplift 160%
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	
PHXU35925	6650	5785	6420	5285	3590	1290
PHXU3595	6650	5785	6420	5285	3590	1290
PHXU35112	6650	5785	6420	5285	3590	1290
PHXU35118	6650	5785	6420	5285	3590	1290
PHXU3514	6650	5785	6420	5285	3590	1290
PHXU3516	6650	5785	6420	5285	3590	1290
PHXU3518	6650	5785	6420	5285	3590	1290
PHXU3520	6650	5785	6420	5285	3590	1290
PHXU55925	6650	5785	6650	5285	3590	1290
PHXU5595	6650	5785	6650	5285	3590	1290
PHXU55112	6650	5785	6650	5285	3590	1290
PHXU55118	6650	5785	6650	5285	3590	1290
PHXU5512	6650	5785	6650	5285	3590	1290
PHXU5514	6650	5785	6650	5285	3590	1290
PHXU5516	6650	5785	6650	5285	3590	1290
PHXU5518	6650	5785	6650	5285	3590	1290
PHXU5520	6650	5785	6650	5285	3590	1290

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HWU		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	Uplift 160%
HWU7.12/7.25	6000	5500	5535	6000	5415	1135
HWU7.12/9.25	6000	5500	5535	6000	5415	1135
HWU7.12/9.5	6000	5500	5535	6000	5415	1135
HWU7.12/11.25	6000	5500	5535	6000	5415	1135
HWU7.12/11.88	6000	5500	5535	6000	5415	1135
HWU7.12/14	6000	5500	5535	6000	5415	1135
HWU7.12/16	6000	5500	5535	6000	5415	1135
HWU7.12/18	6000	5500	5535	6000	5415	1135
HWU7.12/20	6000	5500	5535	6000	5415	765

PHXU		ESR-2104				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	Uplift 160%
PHXU71725 *	6650	5785	6650	5285	3590	1290
PHXU71925	6650	5785	6650	5285	3590	1290
PHXU7195	6650	5785	6650	5285	3590	1290
PHXU71112	6650	5785	6650	5285	3590	1290
PHXU71118	6650	5785	6650	5285	3590	1290
PHXU7114	6650	5785	6650	5285	3590	1290
PHXU7116	6650	5785	6650	5285	3590	1290
PHXU7118	6650	5785	6650	5285	3590	1290
PHXU7120	6650	5785	6650	5285	3590	1290

\*Not listed in ESR-2104

ITS		ESR-2615					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
ITS1.56/9.25	1550	1365	1780	1520	1150	1085	105
ITS1.56/9.5	1550	1365	1780	1520	1150	1085	105
ITS1.56/11.88	1550	1365	1780	1520	1150	1085	105
ITS1.81/9.5	1550	1365	1780	1520	1150	1085	105
ITS1.81/11.88	1550	1365	1780	1520	1150	1085	105
ITS1.81/14	1550	1365	1780	1520	1150	1085	105
ITS1.81/16	1550	1365	1780	1520	1150	1085	105
ITS2.06/9.5	1550	1365	1780	1520	1150	1085	105
ITS2.06/11.88	1550	1365	1780	1520	1150	1085	105
ITS2.06/14	1550	1365	1780	1520	1150	1085	105
ITS2.06/16	1550	1365	1780	1520	1150	1085	105
ITS2.37/9.5	1550	1365	1780	1520	1150	1085	105
ITS2.37/11.88	1550	1365	1780	1520	1150	1085	105
ITS2.37/14	1550	1365	1780	1520	1150	1085	105
ITS2.37/16	1550	1365	1780	1520	1150	1085	105
ITS2.56/9.25 *	1550	1365	1780	1520	1150	1085	105
ITS2.56/9.37	1550	1365	1780	1520	1150	1085	105
ITS2.56/9.5	1550	1365	1780	1520	1150	1085	105
ITS2.56/11.25	1550	1365	1780	1520	1150	1085	105
ITS2.56/11.88	1550	1365	1780	1520	1150	1085	105
ITS2.56/14	1550	1365	1780	1520	1150	1085	105
ITS2.56/16	1550	1365	1780	1520	1150	1085	105
ITS3.56/9.25	1550	1365	1780	1520	1150	1085	105
ITS3.56/9.5	1550	1365	1780	1520	1150	1085	105
ITS3.56/11.25	1550	1365	1780	1520	1150	1085	105
ITS3.56/11.88	1550	1365	1780	1520	1150	1085	105
ITS3.56/14	1550	1365	1780	1520	1150	1085	105
ITS3.56/16	1550	1365	1780	1520	1150	1085	105

\*Not listed in ESR-2615

TFL		ESR-1831					
THO		ESR-1781					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
THO15925	1345	1290	1335	1005	1005	1005	230
THO15950	1345	1290	1335	1090	1090	1090	270
THO15118	1345	1290	1335	1205	1205	1205	270
THO17950	1345	1290	1335	1260	1260	1260	270
THO17118	1345	1290	1335	1305	1305	1305	270
TFL1714	1645	1600	1700	1600	1230	1245	140
TFL1716	1645	1600	1700	1600	1230	1245	140
TFL2095	1645	1600	1700	1600	1230	1245	140
TFL20118	1645	1600	1700	1600	1230	1245	140
TFL2014	1645	1600	1700	1600	1230	1245	140
TFL2016	1645	1600	1700	1600	1230	1245	140
TFL2395	1645	1600	1700	1600	1230	1245	140
TFL23118	1645	1600	1700	1600	1230	1245	140
TFL2314	1645	1600	1700	1600	1230	1245	140
TFL2316	1645	1600	1700	1600	1230	1245	140
TFL25925	1645	1600	1700	1600	1230	1245	140
TFL25938	1645	1600	1700	1600	1230	1245	140
TFL2595	1645	1600	1700	1600	1230	1245	140
TFL25112	1645	1600	1700	1600	1230	1245	140
TFL25118	1645	1600	1700	1600	1230	1245	140
TFL2514	1645	1600	1700	1600	1230	1245	140
TFL2516	1645	1600	1700	1600	1230	1245	140
THO35925	2050	2050	2050	2050	2050	2050	265
THO35950	2050	2050	2050	2050	2050	2050	265
THO35112	2050	2050	2050	2050	2050	2050	265
THO35118	2050	2050	2050	2050	2050	2050	265
THO35140	2715	2715	2715	2715	2100	2715	265
THO35160	2715	2715	2715	2715	2100	2715	265

## SIMPSON Strong-Tie Connectors®

ITT		ESR-2615					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
ITT29.25	1450	1300	1435	1465	1200	1050	235
ITT29.5	1450	1300	1435	1465	1200	1050	235
ITT211.88	1450	1300	1435	1465	1200	1050	235
ITT214	1450	1300	1435	1465	1200	1050	235
ITT9.5 *	1450	1300	1435	1465	1200	1050	235
ITT11.88	1450	1300	1435	1465	1200	1050	235
ITT14	1450	1300	1435	1465	1200	1050	235
ITT16	1450	1300	1435	1465	1200	1050	235
ITT2.06/9.5	1450	1300	1435	1465	1200	1050	235
ITT2.06/11.88	1450	1300	1435	1465	1200	1050	235
ITT2.06/14	1450	1300	1435	1465	1200	1050	235
ITT2.06/16	1450	1300	1435	1465	1200	1050	235
ITT2.1/9.5	1450	1300	1435	1465	1200	1050	235
ITT2.1/11.88	1450	1300	1435	1465	1200	1050	235
ITT2.1/14	1450	1300	1435	1465	1200	1050	235
ITT2.1/16	1450	1300	1435	1465	1200	1050	235
ITT359.5	1450	1300	1435	1465	1200	1050	235
ITT3511.88	1450	1300	1435	1465	1200	1050	235
ITT3514	1450	1300	1435	1465	1200	1050	235
ITT39.25	1450	1300	1435	1465	1200	1050	235
ITT39.37	1450	1300	1435	1465	1200	1050	235
ITT39.5	1450	1300	1450	1465	1200	1050	235
ITT311.88	1450	1300	1435	1465	1200	1050	235
ITT311.25 *	1450	1300	1435	1465	1200	1050	235
ITT313	1450	1300	1435	1465	1200	1050	235
ITT314	1450	1300	1435	1465	1200	1050	235
ITT316	1450	1300	1435	1465	1200	1050	235
ITT49.25	1450	1300	1435	1465	1200	1050	235
ITT49.37	1450	1300	1435	1465	1200	1050	235
ITT49.5	1450	1300	1435	1465	1200	1050	235
ITT411.25	1450	1300	1435	1465	1200	1050	235
ITT411.88	1450	1300	1435	1465	1200	1050	235
ITT413	1450	1300	1435	1465	1200	1050	235
ITT414	1450	1300	1435	1465	1200	1050	235
ITT416	1450	1300	1435	1465	1200	1050	235

\*Not listed in ESR-2615

## USP Structural Connectors®

TFL THO		ESR-1831 ESR-1781					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
THO15925	1345	1290	1335	1005	1005	1005	230
THO15950	1345	1290	1335	1090	1090	1090	270
THO15118	1345	1290	1335	1205	1205	1205	270
THO15140	1030	1030	1030	1030	1030	1030	230
THO17950	1345	1290	1335	1260	1260	1260	270
THO17118	1345	1290	1335	1305	1305	1305	270
TFL1714	1645	1600	1700	1600	1230	1245	140
TFL1716	1645	1600	1700	1600	1230	1245	140
TFL2095	1645	1600	1700	1600	1230	1245	140
TFL20118	1645	1600	1700	1600	1230	1245	140
TFL2014	1645	1600	1700	1600	1230	1245	140
TFL2016	1645	1600	1700	1600	1230	1245	140
TFL2095	1645	1600	1700	1600	1230	1245	140
TFL20118	1645	1600	1700	1600	1230	1245	140
TFL2014	1645	1600	1700	1600	1230	1245	140
TFL2016	1645	1600	1700	1600	1230	1245	140
TFL2395	1645	1600	1700	1600	1230	1245	140
TFL23118	1645	1600	1700	1600	1230	1245	140
TFL2314	1645	1600	1700	1600	1230	1245	140
TFL25925	1645	1600	1700	1600	1230	1245	140
TFL25938	1645	1600	1700	1600	1230	1245	140
TFL2595	1645	1600	1700	1600	1230	1245	140
TFL25118	1645	1600	1700	1600	1230	1245	140
TFL25112	1645	1600	1700	1600	1230	1245	140
TFL2513	1645	1600	1700	1600	1230	1245	140
TFL2514	1645	1600	1700	1600	1230	1245	140
TFL2516	1645	1600	1700	1600	1230	1245	140
THO35925	2050	2050	2050	2050	2050	2050	265
THO35938	2050	2050	2050	2050	2050	2050	265
THO35950	2050	2050	2050	2050	2050	2050	265
THO35112	2050	2050	2050	2050	2050	2050	265
THO35118	2050	2050	2050	2050	2050	2050	265
THO35130	2050	2050	2050	2050	2050	2050	265
THO35140	2715	2715	2715	2715	2100	2715	265
THO35160	2715	2715	2715	2715	2100	2715	265

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IUS ESR-2552				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
IUS1.56/9.5	950	1080	1165	75
IUS1.56/11.88	1185	1345	1455	75
IUS1.81/9.5	950	1080	1165	75
IUS1.81/11.88	1185	1345	1455	75
IUS1.81/14 (Min)	1420	1615	1745	75
IUS1.81/14 (Max)	1660	1885	1980	75
IUS1.81/16 (Min)	1160	1885	1980	75
IUS1.81/16 (Max)	1895	1980	1980	75
IUS2.06/9.5	950	1080	1165	75
IUS2.06/11.88	1185	1345	1455	75
IUS2.06/14 (Min)	1420	1615	1745	75
IUS2.06/14 (Max)	1660	1885	1980	75
IUS2.06/16 (Min)	1660	1885	1980	75
IUS2.06/16 (Max)	1895	1980	1980	75
IUS2.37/9.5	950	1080	1165	75
IUS2.37/11.88	1185	1345	1455	75
IUS2.37/14 (Min)	1420	1615	1745	75
IUS2.37/14 (Max)	1660	1885	1980	75
IUS2.37/16 (Min)	1660	1885	1980	75
IUS2.37/16 (Max)	1895	1980	1980	75
IUS2.56/9.25	950	1080	1165	75
IUS2.56/9.5	950	1080	1165	75
IUS2.56/11.88	1185	1345	1455	75
IUS2.56/14 (Min)	1420	1615	1745	75
IUS2.56/14 (Max)	1660	1885	1980	75
IUS2.56/16 (Min)	1660	1885	1980	75
IUS2.56/16 (Max)	1895	1980	1980	75
IUS3.56/9.5	1185	1345	1455	75
IUS3.56/11.88	1420	1615	1725	75
IUS3.56/14 (Min)	1420	1615	1725	75
IUS3.56/14 (Max)	1660	1725	1725	75
IUS3.56/16 (Min)	1660	1725	1725	75
IUS3.56/16 (Max)	1725	1725	1725	75

THF ESR-1781				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
THF15925 (Max)	1370	1575	1710	280
THF15112 (Max)	1825	2100	2155	280
THF17925 (Max)	1370	1575	1710	280
THF17112 (Max)	1825	2100	2280	280
THF17140 (Max)	2280	2445	2470	280
THF17140 (Max)	2280	2445	2470	280
THF17157	2735	3145	3310	280
THF17157	2735	3145	3310	280
THF20925 (Max)	1370	1575	1710	280
THF20112 (Max)	1825	2100	2280	280
THF20140 (Max)	2280	2470	2470	280
THF20140 (Max)	2280	2470	2470	280
THF20157	2735	3145	3310	280
THF20157	2735	3145	3310	280
THF23925	1370	1575	1710	175
THF23118	1595	1835	1995	360
THF23140	2090	2400	2610	360
THF23140	2090	2400	2610	360
THF23160	2550	2935	3035	360
THF23160	2550	2935	3035	360
THF25925	1370	1575	1710	175
THF25925	1370	1575	1710	175
THF25112	1595	1835	1995	360
THF25140	2090	2400	2610	360
THF25140	2090	2400	2610	360
THF25160	2550	2935	3035	360
THF25160	2550	2935	3035	360
THF35925	1370	1575	1710	245
THF35112	1825	2100	2280	245
THF35140	2320	2670	2900	245
THF35140	2320	2670	2900	245
THF35157	2550	2935	3190	245
THF35157	2550	2935	3190	245

JB ESR-2553				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
JB26	1040	1040	1040	--
JB28	1050	1050	1050	--
JB210	1255	1255	1255	--
JB212	1540	1540	1540	--
JB214	1505	1505	1505	235

HL ESR-1280				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift * 160%
		115%	125%	
HL26	1270	1270	1270	--
HL28	1590	1590	1590	--
HL210	1590	1590	1590	--
HL212	1590	1590	1590	--
HL214	1590	1590	1590	360

\*Uplift value is not published in ESR-1280

## SIMPSON Strong-Tie Connectors®

L		ESR-2606			
		DF-L / SP Design Load			
Simpson Stock No.	Direction of Load	100%	115%	125%	160%
L30	F1	220	240	240	240
	F2	220	240	240	240
	F3	---	---	---	---
L50	F1	335	385	420	445
	F2	335	385	420	445
	F3	---	---	---	---
L70	F1	445	510	555	565
	F2	445	510	555	565
	F3	---	---	---	---
L90	F1	555	640	695	740
	F2	555	640	695	740
	F3	---	---	---	---

L		No Code Listing
Simpson Stock No.		
66L		
88L		
1212L		

LB		ESR-2553		
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
		LB26	1380	
LB28	1270	1270	1270	290
LB210	1550	1550	1550	290
LB212	1580	1580	1580	290
LB214	1425	1425	1425	290
LB216	1425	1425	1425	290

LBOLT		No ICC-ES or IAPMO Code Listing
Simpson Stock No.		
LBOLT50600HDG		
LBOLT50800HDG		
LBOLT50120HDG		
LBOLT62120HDG		

LBP			No ICC-ES or IAPMO Code Listing
Simpson Stock No.	Plate Thickness	Bolt Diameter (Inches)	
LBP1/2	9/64	1/2	
LBP5/8	9/64	5/8	

LBPS			No ICC-ES or IAPMO Code Listing
Simpson Stock No.	Plate Thickness	Bolt Diameter (Inches)	
LBPS1/2	9/64	1/2	
LBPS5/8	9/64	5/8	

## USP Structural Connectors®

AC		ESR-2104			
USP Stock No.	Direction of Load	DF-L / SP Design Load			
		100%	115%	125%	160%
AC3	F1	225	260	285	285
	F2	225	260	285	320
	F3	105	120	130	165
AC5	F1	340	390	425	540
	F2	340	390	425	540
	F3	155	180	195	250
AC7	F1	450	520	565	725
	F2	450	520	565	725
	F3	210	240	260	335
AC9	F1	565	650	705	905
	F2	565	650	705	905
	F3	260	300	325	415

L		No Code Listing
USP Stock No.		
L6		
L8		
L12		

HL HDO		ESR-1280			ESR-1781		
USP Stock No.	Floor 100%	Roof		Uplift 160%			
		115%	125%				
		HL26	1270		1270	1270	---
HL28	1590	1590	1590	---			
HL210	1590	1590	1590	---			
HL212	1590	1590	1590	---			
HL214	1590	1590	1590	360 *			
HDO216	3070	3215	3310	1535			

\*Uplift value not listed in ESR-1280

AB		No ICC-ES or IAPMO Code Listing
USP Stock No.		
AB126-HDG		
AB128-HDG		
AB1212-HDG		
AB5812-HDG		

LBP			No ICC-ES or IAPMO Code Listing
USP Stock No.	Plate Thickness	Bolt Diameter (Inches)	
LBP12-TZ	9/64	1/2	
LBP58-TZ	9/64	5/8	

LBPS			No ICC-ES or IAPMO Code Listing
USP Stock No.	Plate Thickness	Bolt Diameter (Inches)	
LBPS12-TZ	9/64	1/2	
LBPS58-TZ	9/64	5/8	



**SIMPSON Strong-Tie Connectors®**

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LBV		ESR-1866					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	I-Joist 100%	Uplift 160%
LBV1.56/9.25	2910	2885	3190	2590	1925	1495	265
LBV1.56/9.5	2910	2885	3190	2590	1925	1495	265
LBV1.56/11.25	2910	2885	3190	2590	1925	1495	265
LBV1.56/11.88	2910	2885	3190	2590	1925	1495	265
LBV1.56/14	2910	2885	3190	2590	1925	1495	265
LBV1.81/7.25	2910	2885	3190	2590	2060	1495	265
LBV1.81/9.25	2910	2885	3190	2590	2060	1495	265
LBV1.81/9.5	2910	2885	3190	2590	2060	1495	265
LBV1.81/11.25	2910	2885	3190	2590	2060	1495	265
LBV1.81/11.88	2910	2885	3190	2590	2060	1495	265
LBV1.81/14	2910	2885	3190	2590	2060	1495	265
LBV1.81/16	2910	2885	3190	2590	2060	1495	265
LBV2.06/9.5	2910	2885	3190	2590	2060	1495	265
LBV2.06/11.88	2910	2885	3190	2590	2060	1495	265
LBV2.06/14	2910	2885	3190	2590	2060	1495	265
LBV2.06/16	2910	2885	3190	2590	2060	1495	265
LBV2.1/9.5	2910	2885	3190	2590	2060	1495	265
LBV2.1/11.88	2910	2885	3190	2590	2060	1495	265
LBV2.1/14	2910	2885	3190	2590	2060	1495	265
LBV2.1/16	2910	2885	3190	2590	2060	1495	265
LBV2.37/14	2910	2885	3190	2590	2060	1495	265
LBV2.37/18	2910	2885	3190	2590	2060	1495	265
LBV2.37/20	2910	2885	3190	2590	2060	1495	265
LBV2.56/16	2910	2885	3190	2460	2060	1495	265
LBV2.56/18	2910	2885	3190	2460	2060	1495	265
LBV2.56/20	2910	2885	3190	2460	2060	1495	265
LBV2.56/22	2910	2885	3190	2460	2060	1495	265
LBV2.56/24	2910	2885	3190	2460	2060	1495	265
LBV2.56/26	2910	2885	3190	2460	2060	1495	265
LBV3.12/9.25	2910	2885	3190	2460	2060	1495	265
LBV3.12/9.5	2910	2885	3190	2460	2060	1495	265
LBV3.12/11.25	2910	2885	3190	2460	2060	1495	265
LBV3.12/11.88	2910	2885	3190	2460	2060	1495	265
LBV3.12/14	2910	2885	3190	2460	2060	1495	265
LBV3.56/9.25	2910	2885	3190	2460	2060	1495	265
LBV3.56/9.5	2910	2885	3190	2460	2060	1495	265
LBV3.56/11.25	2910	2885	3190	2460	2060	1495	265
LBV3.56/11.88	2910	2885	3190	2460	2060	1495	265
LBV3.56/12	2910	2885	3190	2460	2060	1495	265
LBV3.56/14	2910	2885	3190	2460	2060	1495	265
LBV3.56/16	2910	2885	3190	2460	2060	1495	265
LBV3.56/18	2910	2885	3190	2460	2060	1495	265
LBV3.56/20	2910	2885	3190	2460	2060	1495	265
LBV3.56/22	2910	2885	3190	2460	2060	1495	265
LBV3.56/24	2910	2885	3190	2460	2060	1495	265
LBV3.56/26	2910	2885	3190	2460	2060	1495	265

BPH PHXU TFI THO		ESR-1831 ESR-2104 ESR-1280 ESR-1781					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	I-Joist 100%	Uplift 160%
BPH15925	3120	3065	3065	2705	1990	---	625
BPH1595	3120	3065	3065	2705	1990	---	625
BPH15112	3120	3065	3065	2705	1990	---	625
BPH15118	3120	3065	3065	2705	1990	---	625
BPH1514	3120	3065	3065	2705	1990	---	625
PHXU17725	4420	4425	4425	4425	3070	---	1035
BPH17925	3340	3395	3395	3030	2245	---	625
BPH1795	3340	3395	3395	3030	2245	---	625
BPH17112	3340	3395	3395	3030	2245	---	625
BPH17118	3340	3395	3395	3030	2245	---	625
BPH1714	3340	3395	3395	3030	2245	---	625
BPH1716	3340	3395	3395	3030	2245	---	625
BPH2095	3340	3395	3395	3030	2245	---	625
BPH20118	3340	3395	3395	3030	2245	---	625
BPH2014	3340	3395	3395	3030	2245	---	625
BPH2016	3340	3395	3395	3030	2245	---	625
BPH2095	3340	3395	3395	3030	2245	---	625
BPH20118	3340	3395	3395	3030	2245	---	625
BPH2014	3340	3395	3395	3030	2245	---	625
BPH2016	3340	3395	3395	3030	2245	---	625
THO23140	2715	2715	2715	2715	2280	2715	265
TFI3518	2560	2235	2265	2560	1660	---	360 *
TFI3520	2560	2235	2265	2560	1660	---	360 *
TFI316	2560	2235	2265	2560	1660	---	360 *
TFI318	2560	2235	2265	2560	1660	---	360 *
TFI320	2560	2235	2265	2560	1660	---	360 *
TFI322	3245	2920	2950	3245	2345	---	360 *
TFI324	3245	2920	2950	3245	2345	---	360 *
TFI326	3245	2920	2950	3245	2345	---	360 *
BPH31925	3440	3510	3775	3440	2815	---	625
BPH3195	3440	3510	3775	3440	2815	---	625
BPH31112	3440	3510	3775	3440	2815	---	625
BPH31118	3440	3510	3775	3440	2815	---	625
BPH3114	3440	3510	3775	3440	2815	---	625
BPH35925	3485	3510	3775	3485	3280	---	815
BPH3595	3485	3510	3775	3485	3280	---	815
BPH35112	3485	3510	3775	3485	3280	---	815
BPH35118	3485	3510	3775	3485	3280	---	815
BPH3512	3430	3510	3775	3430	3280	---	1140
BPH3514	3430	3510	3775	3430	3280	---	1140
BPH3516	3430	3510	3775	3430	3280	---	1140
BPH3518	3430	3510	3775	3430	3280	---	1140
BPH3520	3430	3510	3775	3430	3280	---	1140
BPH3522	3430	3510	3775	3430	3280	---	1140
TFI424	3245	2920	2950	3245	2345	---	360 *
BPH3526	3430	3510	3775	3430	3280	---	1140

\*Uplift values are not listed in ESR-1280

continued on next page

## SIMPSON Strong-Tie Connectors®

LBV		ESR-1866					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
LBV3.56/28	2910	2885	3190	2460	2060	1495	265
LBV3.56/30	2910	2885	3190	2460	2060	1495	265
LBV4.12/9.5	2910	2885	3190	2460	2060	1495	265
LBV4.12/11.88	2910	2885	3190	2460	2060	1495	265
LBV4.12/14	2910	2885	3190	2460	2060	1495	265
LBV4.12/16	2910	2885	3190	2460	2060	1495	265
LBV4.28/9.5 *	2910	2885	3190	2460	2060	1495	265
LBV4.28/11.88 *	2910	2885	3190	2460	2060	1495	265
LBV4.28/14 *	2910	2885	3190	2460	2060	1495	265
LBV4.28/16 *	2910	2885	3190	2460	2060	1495	265
LBV4.75/9.5	2910	2885	3190	2460	2060	1495	265
LBV4.75/11.88	2910	2885	3190	2460	2060	1495	265
LBV4.75/14	2910	2885	3190	2460	2060	1495	265
LBV4.75/16	2910	2885	3190	2460	2060	1495	265
LBV4.75/18	2910	2885	3190	2460	2060	1495	265
LBV4.75/20	2910	2885	3190	2460	2060	1495	265
LBV5.12/9.25	2910	2885	3190	2460	2060	1495	265
LBV5.12/9.5	2910	2885	3190	2460	2060	1495	265
LBV5.12/11.25	2910	2885	3190	2460	2060	1495	265
LBV5.12/11.88	2910	2885	3190	2460	2060	1495	265
LBV5.12/14	2910	2885	3190	2460	2060	1495	265
LBV5.12/16	2910	2885	3190	2460	2060	1495	265

\*Not listed in ESR-1866

LCB		ER-5708	
Simpson Stock No.	DF-L / SP Design Load		
	Bolts 160%	Nails 160%	
LCB44	4250	2705	
LCB46	4240	2705	
LCB66	4230	2705	

LCC		No Code Listing		
Simpson Stock No.	Girder	Design Loads		
		DF/SP / S-P-F 100%	LVL / PSL 100%	F1 160%
LCC4.5-3.5	Triple 2x10/12	15820	--	1615
LCC4.5-4	Triple 2x10/12	20670	--	1615
LCC6-3.5	Quad 2x10/12	15820	--	1615
LCC6-4	Quad 2x10/12	20670	--	1615
LCC3.5-3.5	3.5 LVL / PSL / LSL	--	15820	1615
LCC3.5-4	3.5 LVL / PSL / LSL	--	20670	1615
LCC5.25-3.5	5.25 LVL / PSL / LSL	--	15820	1615
LCC5.25-4	5.25 LVL / PSL / LSL	--	20670	1615
LCC7-3.5	7 LVL / PSL / LSL	--	15820	1615
LCC7-4	7 LVL / PSL / LSL	--	20670	1615

## USP Structural Connectors®

BPH THO		ESR-1831 ESR-1781					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	Uplift 160%
BPH3528	3430	3510	3775	3430	3280	--	1140
BPH3530	3430	3510	3775	3430	3280	--	1140
THO20950-2	2330	2665	2665	2665	2240	2630	1115
THO20118-2	2330	2700	2700	2700	2270	2630	1115
THO20140-2	2330	3700	3700	3700	2765	2630	1175
THO20160-2	2330	3700	3700	3700	2765	2630	1175
THO20950-2	2330	2665	2665	2665	2240	2630	1115
THO20118-2	2330	2700	2700	2700	2270	2630	1115
THO20140-2	2330	3700	3700	3700	2765	2630	1175
THO20160-2	2330	3700	3700	3700	2765	2630	1175
THO23950-2	3535	3635	3635	3665	2675	2630	1175
THO23118-2	3535	3665	3665	3665	3005	2630	1175
THO23140-2	3535	4405	4405	4450	3265	2630	1175
THO23160-2	3535	4405	4405	4450	3265	2630	1175
THO23180-2	3535	4685	4685	4770	3520	2630	1175
THO23200-2	3535	4685	4685	4770	3520	2630	1175
THO25925-2	3535	3665	3665	3665	3080	2630	1175
THO25950-2	3535	3665	3665	3665	2710	2630	1175
THO25112-2	3535	3665	3665	3665	3005	2630	1175
THO25118-2	3535	3665	3665	3665	3005	2630	1175
THO25140-2	3535	4405	4405	4450	3265	2630	1175
THO25160-2	3535	4405	4405	4450	3265	2630	1175

CBE		NER-530	
USP Stock No.	DF-L / SP Design Load *		
	Bolts 160%	Nails 160%	
CBE44	4380	2820	
CBE46	4370	2820	
CBE66	4360	2820	

\*Design loads as listed in USP's 56th Edition Full Line Catalog

KLCC		No Code Listing		
USP Stock No.	Girder	Design Loads		
		DF/SP / S-P-F 100%	LVL / PSL 100%	F1 160%
KLCC45-35	Triple 2x10/12	16000	--	--
KLCC45-4	Triple 2x10/12	21000	--	--
KLCC6-35	Quad 2x10/12	16000	--	--
KLCC6-4	Quad 2x10/12	21000	--	--
KLCC35-35	3.5 LVL / PSL	--	16000	--
KLCC35-4	3.5 LVL / PSL	--	21000	--
KLCC525-35	5.25 LVL / PSL	--	16000	--
KLCC525-4	5.25 LVL / PSL	--	21000	--
KLCC7-35	7 LVL / PSL	--	16000	--
KLCC7-4	7 LVL / PSL	--	21000	--

**SIMPSON Strong-Tie Connectors®**

LCE		ER-112		
Simpson Stock No.	DF-L / SP Design Load - Used in Pairs			
	Uplift	F1	F2	
LCE4	1905	1425	160%	---

LEG		ESR-2615			
Simpson Stock No.	DF-L / SP Design Load <sup>1</sup>				
	Top Flange Triangle Theory		Without Top Flange		Uplift
	Floor	Roof	Floor	Roof	
LEG3	11865	12730	3465	4330	160%
LEG5	11865	12730	3465	4330	160%
LEG7	11865	12730	3465	4330	160%

<sup>1</sup>Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

LGT		No ICC-ES or IAPMO Code Listing		
Simpson Stock No.	Installation Type	Design Load (160%)		
		DF-L / SP		
		Uplift	F1	F2 <sup>1</sup>
LGT2	Wood	2050	700	170 *
	Masonry	2150	700	170

<sup>1</sup>F2 loads apply with LGT2 installation of 4-16d sinkers in optional nail holes .

LPCZ		ESR-2604		
Simpson Stock No.	DF-L / SP Design Load			
	Uplift	F1	F2	
LPC4Z	760	325	160%	---
LPC6Z	915	490	160%	---

LS		ER-112			
Simpson Stock No.	DF-L / SP Design Load				
	100%	115%	125%	160%	
LS30	355	395	395	395	
LS50	475	540	585	730	
LS70	595	675	730	915	
LS90	715	810	875	1040	

LSCZ		No Code Listing	
Simpson Stock No.	DF / SP Design Load		
	Floor	Snow	
LSCZ	755	115%	755

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PBES		ESR-1781		
USP Stock No.	DF-L / SP Design Load *			
	Uplift	F1	F2	
PBES44	1755	1015	160%	630

\*Design loads apply only when used in pairs

KLEG		ESR-1280			
USP Stock No.	DF-L / SP Design Load <sup>1</sup>				
	With Top Flange		Without Top Flange		Uplift *
	Floor	Roof	Floor	Roof	
KLEG3	11940	12200	3540	4420	3845
KLEG5	11940	12200	3540	4420	5620
KLEG7	11940	12200	3540	4420	5635

<sup>1</sup>Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

\*Uplift values are not published in ESR-1280.

LUGT		ESR-1465		
USP Stock No.	Installation Type	Design Load (160%)		
		DF-L / SP		
		Uplift	F1	F2
LUGT2	Wood	2260	1015	440
	Masonry <sup>1</sup>	1850	1220	460

\*Not listed in ESR-1465

<sup>1</sup>Masonry installation not listed in ESR-1465

PB		ESR-1781		
USP Stock No.	DF- L/ SP Design Load (160%)			
	Uplift	F1	F2	
PB44-6TZ	640	1000	160%	400
PB66-6TZ	640	1000	160%	400

MP		ESR-1831			
USP Stock No.	DF-L / SP Design Load				
	100%	115%	125%	160%	
MP3	340	395	430	485	
MP5	455	525	570	730	
MP7	570	655	715	910	
MP9	685	785	855	1095	

CSH		Submitted to IAPMO-ES	
USP Stock No.	DF / SP Design Load		
	Floor	Roof	
CSH-TZ	890	115%	890

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## SIMPSON Strong-Tie Connectors®

LSSU					ESR-2551					
Simpson Stock No.	DF-L / SP Design Load				Uplift 160%	Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%			Floor 100%	Roof		Uplift 160%
		115%	125%					115%	125%	
<b>Sloped Only Hangers</b>										
LSSU28	1110	1275	1390	535	LSSU28	1110	1275	1390	535	
LSSU210	1110	1275	1390	875	LSSU210	1110	1275	1390	875	
LSSU125	1110	1275	1390	875	LSSU125	1110	1275	1390	875	
LSSU12.06 *	1110	1275	1390	875	LSSU12.06 *	1110	1275	1390	875	
LSSU2.1 *	1110	1275	1390	875	LSSU2.1 *	1110	1275	1390	875	
LSSU135	1110	1275	1390	875	LSSU135	1110	1275	1390	875	
LSSUH310 *	2295	2295	2295	1150	LSSUH310 *	2295	2295	2295	1150	
LSSU210-2	2430	2795	3035	1150	LSSU210-2	2430	2795	3035	1150	
LSSU410	2430	2795	3035	1150	LSSU410	2430	2795	3035	1150	
<b>Skewed Only or Sloped &amp; Skewed Hangers</b>										
LSSU28	885	885	885	450	LSSU28	885	885	885	450	
LSSU210	995	1145	1205	785	LSSU210	995	1145	1205	785	
LSSU125	995	1145	1205	785	LSSU125	995	1145	1205	785	
LSSU12.06 *	995	1145	1205	785	LSSU12.06 *	995	1145	1205	785	
LSSU2.1 *	995	1145	1205	785	LSSU2.1 *	995	1145	1205	785	
LSSU135	995	1145	1205	785	LSSU135	995	1145	1205	785	
LSSUH310 *	1600	1600	1600	1150	LSSUH310 *	1600	1600	1600	1150	
LSSU210-2	1625	1625	1625	1150	LSSU210-2	1625	1625	1625	1150	
LSSU410	1625	1625	1625	1150	LSSU410	1625	1625	1625	1150	

\*Not listed in ESR-2551

LSTA		ESR-2105	
Simpson Stock No.	DF-L / SP Design Load		Tension 160%
	Tension 160%		
LSTA9	740		740
LSTA12	925		925
LSTA15	1110		1110
LSTA18	1235		1235
LSTA21	1235		1235
LSTA24	1235		1235
LSTA30	1640		1640
LSTA36	1640		1640

LSTHD					ESR-2920				
USP Stock No.	Min. Stem	Strap Location	DF / SP Uplift 160%		USP Stock No.	Min. Stem	Strap Location	DF / SP Uplift 160%	
			Wind and SDC A & B	SDC C-F				Wind and SDC A & B	SDC C-F
<b>Uncracked</b>									
LSTHD8	6	Corner	2860	2185	LSTHD8	6	Corner	2860	2185
LSTHD8RJ	6	Corner	2860	2185	LSTHD8RJ	6	Corner	2860	2185
<b>Cracked</b>									
LSTHD8	6	Corner	2355	1975	LSTHD8	6	Corner	2355	1975
LSTHD8RJ	6	Corner	2355	1975	LSTHD8RJ	6	Corner	2355	1975

LSTI		ESR-2105	
Simpson Stock No.	DF-L / SP Design Load		Tension 160%
	160%		
LSTI49	2975		2975
LSTI73	4205		4205

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LSSH					ESR-1781					
USP Stock No.	DF-L / SP Design Load				Uplift 160%	USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%			Floor 100%	Roof		Uplift 160%
		115%	125%					115%	125%	
<b>Sloped Only Hangers</b>										
LSSH15-TZ *	685	785	855	740	LSSH15-TZ *	685	785	855	740	
LSSH210	1140	1310	1425	1065	LSSH210	1140	1310	1425	1065	
LSSH179	1140	1310	1425	1065	LSSH179	1140	1310	1425	1065	
LSSH20	1140	1310	1425	980	LSSH20	1140	1310	1425	980	
LSSH20	1140	1310	1425	980	LSSH20	1140	1310	1425	980	
LSSH23	1140	1310	1425	980	LSSH23	1140	1310	1425	980	
LSSH25	2485	2600	2600	1195	LSSH25	2485	2600	2600	1195	
LSSH31	2485	2855	3105	1585	LSSH31	2485	2855	3105	1585	
LSSH35	2485	2855	3105	1585	LSSH35	2485	2855	3105	1585	
<b>Skewed Only or Sloped &amp; Skewed Hangers</b>										
LSSH15-TZ *	685	785	815	740	LSSH15-TZ *	685	785	815	740	
LSSH210	1140	1310	1425	1065	LSSH210	1140	1310	1425	1065	
LSSH179	1140	1310	1425	1065	LSSH179	1140	1310	1425	1065	
LSSH20	1140	1310	1425	980	LSSH20	1140	1310	1425	980	
LSSH20	1140	1310	1425	980	LSSH20	1140	1310	1425	980	
LSSH23	1140	1310	1425	980	LSSH23	1140	1310	1425	980	
LSSH25	1825	1825	1825	1195	LSSH25	1825	1825	1825	1195	
LSSH31	1920	1920	1920	1585	LSSH31	1920	1920	1920	1585	
LSSH35	1920	1920	1920	1585	LSSH35	1920	1920	1920	1585	

\*Not listed in ESR-1781

LSTA		ESR-1781	
USP Stock No.	DF-L / SP Design Load		Tension 160%
	Tension 160%		
LSTA9	740		740
LSTA12	930		930
LSTA15	1115		1115
LSTA18	1235		1235
LSTA21	1235		1235
LSTA24	1235		1235
LSTA30	1640		1640
LSTA36	1640		1640

STAD					ESR-2787				
USP Stock No.	Min. Stem	Strap Location	DF / SP Uplift 160%		USP Stock No.	Min. Stem	Strap Location	DF / SP Uplift 160%	
			Wind and SDC A & B	SDC C-F				Wind and SDC A & B	SDC C-F
<b>Uncracked</b>									
STAD8	6	Corner	2405	2060	STAD8	6	Corner	2405	2060
STAD8RJ	6	Corner	2405	2060	STAD8RJ	6	Corner	2405	2060
<b>Cracked</b>									
STAD8	6	Corner	1685	1445	STAD8	6	Corner	1685	1445
STAD8RJ	6	Corner	1685	1445	STAD8RJ	6	Corner	1685	1445

LSTI		ESR-1831	
USP Stock No.	DF-L / SP Design Load		Tension 160%
	160%		
LSTI49	3150		3150
LSTI73	4130		4130

**SIMPSON Strong-Tie Connectors®**

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LSU		ESR-2551		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
Sloped Only Hangers				
LSU26	665	765	800	535
Skewed Only or Sloped & Skewed Hangers				
LSU26	665	765	800	535

LSSH		No ICC-ES or IAPMO Code Listing		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
Sloped Only Hangers				
LSSH15-TZ	685	785	855	740
Skewed Only or Sloped & Skewed Hangers				
LSSH15-TZ	685	785	815	740

LTA		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	DF-L / SP Design Load *			
	F1 160%	F2 160%	Uplift 160%	
	LTA2	950	220	1210

LPTA		2031C		
USP Stock No.	DF-L / SP Design Load *			
	F1 160%	F2 160%	Uplift 160%	
	LPTA	810	1500	1250

\*Design loads are based on installation parallel to wall.

\*Design loads as listed in USP's 56th Edition Full Line Catalog and based on installation parallel to wall.

LTB		ESR-2608		
Simpson Stock No.				
LTB20				
LTB40				

N O40		ESR-1781		
USP Stock No.				
N16				
O40				

LTHJA		ESR-2554			
Simpson Stock No.	Carried Member Combination	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
LTHJA26	Side Hip & Center Jack	1165	1165	1165	295
LTHJA26	Double Hip	1270	1270	1270	580

HJC HHC		ESR-1465			
USP Stock No.	Carried Member Combination	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
HJC26	Side Hip & Center Jack	2385	2740	2980	1840
HHC26	Double Hip	2980	3425	3505	1015

LTP		ESR-2606, ER-112			
Simpson Stock No.	Direction of Load	Design Load			
		100%	125%	160%	
LTP4	G	515	645	670	
	H	515	645	670	
LTP5	G	585	620	620	
	H	545	545	545	

MPF		ESR-1881			
USP Stock No.	Installation Type	Direction of Load	Design Load		
			100%	125%	160%
MP4F	Type 1	H	565	705	845
	Type 2	H	565	660	660
MP6F	Type 1	H	565	605	605
	Type 2	H	565	605	605

LTS		ESR-2613	
Simpson Stock No.	DF-L / SP Design Load		
	Uplift 160%		
	10d x 1-1/2	10d	
LTS12	720	775	
LTS16	720	775	
LTS18	720	775	
LTS20	720	775	

LTW		ESR-2104	
USP Stock No.	DF-L / SP Design Load		
	Uplift 160%		
	10d x 1-1/2	10d	
LTW12	775	775	
LTW16	775	775	
LTW18	775	775	
LTW20	775	775	

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## SIMPSON Strong-Tie Connectors®

<b>LTT</b>	ER-130	
<b>LTTI</b>	ER-130	
	<b>DF-L / SP Design Load</b>	
Simpson Stock No.	Nails	Bolts
	160%	160%
LTT19	1340	--
LTT20B	1500	1625
LTTI31	1350	--

<b>LU</b>	ESR-2549, ER-5708			
	<b>DF-L / SP Design Load</b>			
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	LU24	465	530	575
LU26	700	795	860	565
LU28	930	1060	1150	850
LU210	1165	1325	1435	850
LU24R-18	565	640	695	265
LU26R-18	845	965	1040	565
LU28R-18	1125	1285	1335	865
LU210R-18	1410	1605	1735	850

<b>LUCZ</b>	ESR-2549			
	<b>DF-L / SP Design Load</b>			
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	LUC26Z	710	810	875
LUC210Z	1185	1345	1455	1100

<b>LUS</b>	ESR-2549			
	<b>DF-L / SP Design Load</b>			
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	LUS24	670	765	825
LUS26	865	990	1070	1165
LUS28	1100	1255	1360	1165
LUS210	1340	1525	1650	1165
LUS36	1030	1180	1280	1165
LUS310	1315	1500	1625	1165
LUS24-2	800	910	985	440
LUS26-2	1030	1180	1280	1165
LUS28-2	1315	1500	1625	1165
LUS210-2	1830	2090	2265	1745
LUS214-2	2110	2410	2610	1745
LUS44	800	910	985	440
LUS46	1030	1180	1280	1165
LUS48	1315	1500	1625	1165
LUS410	1830	2090	2265	1745
LUS414	2110	2410	2610	1745
LUS26-3	1030	1180	1280	1165
LUS28-3	1315	1500	1625	1165
LUS210-3	1830	2090	2265	1745

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<b>LTS</b>	ER-0200	
<b>LTTI</b>	ER-0200	
	<b>DF-L / SP Design Load</b>	
USP Stock No.	Nails	Bolts
	160%	160%
LTS19	1205	--
LTS20B	1105	1175
LTTI31	2805	--

<b>JL</b>	ESR-1781			
<b>SUH</b>	ESR-1280			
	<b>DF-L / SP Design Load</b>			
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	JL24	455	525	570
JL26	685	785	855	485
JL28	1140	1295	1295	885
JL210	1595	1835	1875	1095
SUH24R	550	635	690	360
SUH26R	830	950	1035	725
SUH28R	1105	1270	1380	800
SUH210R	1380	1585	1725	1085

<b>JLIF-TZ</b>	Submitted to IAPMO-ES			
	<b>DF-L / SP Design Load</b>			
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	JL26IF-TZ	695	800	870
JL210IF-TZ	1275	1465	1595	1095

<b>JUS</b>	ESR-1881			
	<b>DF-L / SP Design Load</b>			
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
	JUS24	655	750	820
JUS26	850	975	1060	1115
JUS28	1075	1235	1345	1115
JUS210	1305	1500	1630	1115
JUS36	1015	1170	1220	1355
JUS310	1800	2070	2250	1980
JUS24-2	780	900	965	325
JUS26-2	1015	1170	1220	1355
JUS28-2	1290	1485	1615	1355
JUS210-2	1800	2070	2250	1980
JUS214-2	2345	2700	2935	1980
JUS44	780	900	965	325
JUS46	1015	1170	1220	1355
JUS48	1290	1485	1615	1355
JUS410	1800	2070	2250	1980
JUS414	2345	2700	2935	1980
JUS26-3	1015	1170	1220	1355
JUS28-3	1290	1485	1615	1355
JUS210-3	1800	2070	2250	1980

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<b>MAB</b>		ER-5708		
Simpson Stock No.	Plate Size	DF-L / SP Design Load		
		F1 160%	F2 160%	Uplift 160%
MB15Z	2 x 4,6	500	500	565
MB23Z	2 x 4,6	500	500	565

<b>ST</b>		NER-530		
USP Stock No.	Plate Size	DF-L / SP Design Load *		
		F1 160%	F2 160%	Uplift 160%
ST1-TZ	2 x 4,6	565	745	825
ST2-TZ	2 x 4,6	565	745	825

\*Design loads as listed in USP's 56th Edition Full Line Catalog

<b>MBHA</b>		ESR-2616			
Simpson Stock No.	Design Load	Solid Concrete		Grouted CMU	
		Maximum Download	Uplift 160%	Maximum Download	Uplift 160%
		MBHA3.12/9.25	6050	3775	5330
MBHA3.12/11.25	6050	3775	5330	3475	
MBHA3.56/7.25	4380	1885	4380	1885	
MBHA3.56/9.25	6050	3775	5330	3475	
MBHA3.56/11.25	6050	3775	5330	3475	
MBHA3.56/11.88	6050	3775	5330	3475	
MBHA3.56/14	6050	3775	5330	3475	
MBHA3.56/16	6050	3775	5330	3475	
MBHA3.56/18	6050	3775	5330	3475	
MBHA5.50/7.25	4380	1885	4380	1885	
MBHA5.50/9.25	6050	3775	5330	3475	
MBHA5.50/11.25	6050	3775	5330	3475	
MBHA5.50/11.88	6050	3775	5330	3475	
MBHA5.50/14	6050	3775	5330	3475	
MBHA5.50/16	6050	3775	5330	3475	
MBHA5.50/18	6050	3775	5330	3475	

<b>NFM_U</b>		No ICC-ES or IAPMO Code Listing			
USP Stock No.	Design Load	Solid Concrete		Grouted CMU	
		Maximum Download	Uplift 160%	Maximum Download	Uplift 160%
		NFM3X10U	7130	3165	7130
NFM3X12U	7130	3165	7130	3165	
NFM35X8U	7130	3165	7130	3165	
NFM35X10U	7130	3165	7130	3165	
NFM35X12U	7130	3165	7130	3165	
NFM35X1178U	7130	3165	7130	3165	
NFM35X14U	7130	3165	7130	3165	
NFM35X16U	7130	3165	7130	3165	
NFM35X18U	7130	3165	7130	3165	
NFM6X8U	7130	3165	7130	3165	
NFM6X10U	7130	3165	7130	3165	
NFM6X12U	10310	3070	10310	3070	
NFM6X1178U	10310	3070	10310	3070	
NFM6X14U	10310	3070	10310	3070	
NFM6X16U	10310	3070	10310	3070	
NFM6X18U	10310	3070	10310	3070	

<b>MBHU</b>		No ICC-ES or IAPMO Code Listing			
Simpson Stock No.	Design Load	Concrete		CMU	
		Download 100/115/125%	Uplift 160%	Download 100/115/125%	Uplift 160%
		MBHU3.56/16KT	2440	1720	4190
MBHU3.56/18KT	2440	1720	4190	2715	
MBHU5.50/16KT	3260	2175	6970	3485	
MBHU5.50/18KT	3260	2175	6970	3485	

<b>UMH</b>		No ICC-ES or IAPMO Code Listing			
USP Stock No.	Design Load	Concrete		CMU	
		Download 100/115/125%	Uplift 160%	Download 100/115/125%	Uplift 160%
		UMH358	5200	4785	5870
UMH358	5200	4785	5870	4785	
UMH558	5200	4785	5870	4785	
UMH558	5200	4785	5870	4785	

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MEG		ESR-2615			
Simpson Stock No.	Design Load <sup>1</sup>				
	Top Flange Triangle Theory		Without Top Flange		Uplift 160%
	Floor 100%	Roof 125%	Floor 100%	Roof 125%	
MEG5	13570	14865	5170	6460	--
MEG7	13570	14865	5170	6460	--

<sup>1</sup>Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

META		No ICC-ES or IAPMO Code Listing		
Simpson Stock No.	No. of Plys	SP Design Load (160%)		
		Uplift	F1	F2
META12	1	1450	340	725
META14	1	1450	340	725
META16	1	1450	340	725
META18	1	1450	340	725
META20	1	1450	340	725
META22	1	1450	340	725
META24	1	1450	340	725
META40	1	1450	340	725

MGT		No ICC-ES or IAPMO Code Listing	
Simpson Stock No.	Installation Type	DF / SP Design Load	
		Uplift 160%	
MGT	Wood	3965	
	Concrete/CMU	3965	

MIT		ESR-2615					
Simpson Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	I-Joist 100%	Uplift 160%
MIT29.5	2550	2140	2115	2305	1665	1230	215
MIT211.88	2550	2140	2115	2305	1665	1230	215
MIT9.5	2550	2140	2115	2305	1665	1230	215
MIT11.88	2550	2140	2115	2305	1665	1230	215
MIT1.81/14	2550	2140	2115	2305	1665	1230	215
MIT1.81/16	2550	2140	2115	2305	1665	1230	215
MIT3514	2550	2140	2115	2305	1665	1230	215
MIT3516	2550	2140	2115	2305	1665	1230	215
MIT3518	2550	2140	2115	2305	1665	1230	215
MIT3520	2550	2140	2115	2305	1665	1230	215
MIT311.88	2550	2140	2115	2305	1665	1230	215
MIT314	2550	2140	2115	2305	1665	1230	215
MIT316	2550	2140	2115	2305	1665	1230	215
MIT318	2550	2140	2115	2305	1665	1230	215
MIT320	2550	2140	2115	2305	1665	1230	215
MIT29.5-2	2550	2000	2115	2305	1665	1230	215
MIT211.88-2	2550	2000	2115	2305	1665	1230	215

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KMEG		ESR-1280			
USP Stock No.	Design Load <sup>1</sup>				
	With Top Flange		Without Top Flange		Uplift *
	Floor 100%	Roof 125%	Floor 100%	Roof 125%	
KMEG5	12635	12635	5285	6610	5620
KMEG7	12635	12635	5285	6610	5635

<sup>1</sup>Allowable loads are for supporting member with a width of 5-1/2" and 560 psi perpendicular to grain loading in single shear.

\*Uplift values are not published in ESR-1280.

HTA		2031C		
USP Stock No.	No. of Plys	SP Design Load (160%) **		
		Uplift	F1	F2
HTA16-18	1	1400	395	325
HTA16-18	1	1400	395	325
HTA16-18	1	1400	395	325
HTA20-18	1	1400	395	325
HTA20-18	1	1400	395	325
HTA24-18	1	1400	395	325
HTA24-18	1	1400	395	325
HTA48 *	1	1615	590	660

\*Not listed in 2031C

\*\*Design loads as listed in USP's 56th Edition Full Line Catalog

MUGT		ESR-1831	
USP Stock No.	Installation Type	DF / SP Design Load	
		Uplift 160%	
MUGT15	Wood	4175	
	Concrete/CMU	4175	

TFI BPH THO		ESR-1280					
		ESR-1831					
		ESR-1781					
USP Stock No.	Design Load						
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	I-Joist 100%	Uplift 160%
BPH1595	3120	3065	3065	2705	1990	--	625
THO15118	1345	1290	1335	1205	1015	1205	270
BPH1795	3340	3395	3395	3030	2245	--	625
THO17118	1345	1290	1335	1305	1095	1305	270
BPH1714	3340	3395	3395	3030	2245	--	625
BPH1716	3340	3395	3395	3030	2245	--	625
THO23140	2715	2715	2715	2715	2280	2715	265
TFI3516	2560	2235	2265	2560	1660	--	360 *
TFI3518	2560	2235	2265	2560	1660	--	360 *
TFI3520	2560	2235	2265	2560	1660	--	360 *
THO25118	1835	1835	1835	1835	1540	1835	265
THO25140	2715	2715	2715	2715	2280	2715	265
TFI316	2560	2235	2265	2560	1660	--	360 *
TFI318	2560	2235	2265	2560	1660	--	360 *
TFI320	2560	2235	2265	2560	1660	--	360 *
THO15950-2	2330	2490	2490	2500	1860	2630	1115
THO15118-2	2330	2465	2465	2490	1845	2630	1115

\*TFI uplift values are not published in ESR-1280.



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MIT		ESR-2615					
Simpson Stock No.	Design Load						Uplift 160%
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	
MIT49.5	2550	2140	2115	2305	1665	1230	215
MIT411.88	2550	2140	2115	2305	1665	1230	215
MIT414	2550	2140	2115	2305	1665	1230	215
MIT416	2550	2140	2115	2305	1665	1230	215
MIT418	2550	2140	2115	2305	1665	1230	215
MIT420	2550	2140	2115	2305	1665	1230	215
MIT4.28/9.5	2550	2140	2115	2305	1665	1230	215
MIT4.28/11.88	2550	2140	2115	2305	1665	1230	215
MIT4.28/14	2550	2140	2115	2305	1665	1230	215
MIT359.5-2	2550	2140	2115	2305	1665	1230	215
MIT3511.88-2	2550	2140	2115	2305	1665	1230	215
MIT3514-2	2550	2140	2115	2305	1665	1230	215
MIT39.5-2	2550	2140	2115	2305	1665	1230	215
MIT311.88-2	2550	2140	2115	2305	1665	1230	215
MIT314-2	2550	2140	2115	2305	1665	1230	215
MIT5.12/16	2550	2140	2115	2305	1665	1230	215

TFI THO		ESR-1280					
USP Stock No.	Design Load						Uplift 160%
	LVL 100%	PSL 100%	LSL 100%	DF/SP 100%	SPF 100%	DF I-Joist 100%	
THO17950-2	2330	2555	2555	2580	1905	2630	1115
THO17118-2	2330	2355	2355	2375	1765	2630	1115
TFI414	2560	2235	2265	2560	1660	--	360 *
TFI416	2560	2235	2265	2560	1660	--	360 *
TFI418	2560	2235	2265	2560	1660	--	360 *
TFI420	2560	2235	2265	2560	1660	--	360 *
THO20950-2	2330	2665	2665	2665	2240	2630	1115
THO20118-2	2330	2700	2700	2700	2270	2630	1115
THO20140-2	2330	3700	3700	3700	2765	2630	1175
THO23950-2	3535	3635	3635	3665	2675	2630	1175
THO23118-2	3535	3665	3665	3665	3005	2630	1175
THO23140-2	3535	4405	4405	4450	3265	2630	1175
THO25950-2	3535	3665	3665	3665	2710	2630	1175
THO25118-2	3535	3665	3665	3665	3005	2630	1175
THO25140-2	3535	4405	4405	4450	3265	2630	1175
THO25160-2	3535	4405	4405	4450	3265	2630	1175

\*TFI uplift values are not published in ESR-1280.

MIU		ESR-2552			
Simpson Stock No.	DF-L / SP Design Load				Uplift 160%
	Floor 100%	Roof			
		115%	125%		
MIU1.56/9	2305	2615	2820	230	
MIU1.56/11	2880	3060	3080	230	
MIU1.81/9	2305	2615	2820	230	
MIU1.81/11	2880	3135	3135	230	
MIU1.81/14	3170	3530	3550	230	
MIU1.81/16	3455	3530	3550	230	
MIU1.81/18	3500	3530	3550	230	
MIU2.37/9	2305	2615	2820	230	
MIU2.37/11	2880	3135	3135	230	
MIU2.37/14	3170	3595	3875	230	
MIU2.37/16	3455	3920	4045	230	
MIU2.37/18	3745	4045	4045	230	
MIU2.37/20	4030	4060	4060	230	
MIU2.56/9	2305	2615	2820	230	
MIU2.56/11	2880	3135	3135	230	
MIU2.56/14	3170	3595	3875	230	
MIU2.56/16	3455	3920	4045	230	
MIU2.56/18	3745	4045	4045	230	
MIU2.56/20	4030	4060	4060	230	
MIU3.12/9	2305	2615	2820	230	
MIU3.12/11	2880	3135	3135	230	
MIU3.56/9	2305	2615	2820	210	
MIU3.56/11	2880	3135	3135	210	
MIU3.56/14	3170	3595	3875	210	
MIU3.56/16	3455	3920	4045	210	
MIU3.56/18	3745	4045	4045	210	

THF HD		ESR-1781			
USP Stock No.	DF-L / SP Design Load				Uplift 160%
	Floor 100%	Roof			
		115%	125%		
THF15925 Max	1370	1575	1710	280	
THF15112 Max	1825	2100	2155	280	
HD17925	2540	2775	2775	1065	
HD17112	2870	2975	3045	1065	
HD1714	3100	3235	3330	1065	
HD1714	3100	3235	3330	1065	
HD1714	3100	3235	3330	1065	
THF23925	1370	1575	1710	175	
THF23118	1595	1835	1995	360	
THF23140	2090	2400	2610	360	
THF23160	2550	2935	3035	360	
THF23180	2785	3200	3480	1295	
THF23180	2785	3200	3480	1295	
THF25925	1370	1575	1710	175	
THF25112	1595	1835	1995	360	
THF25140	2090	2400	2610	360	
THF25160	2550	2935	3035	360	
THF25160	2550	2935	3035	360	
THF25160	2550	2935	3035	360	
THF15925-2	1390	1600	1740	1115	
THF15112-2	1625	1870	2030	1115	
HD410	2540	2920	3175	1905	
HD412	3100	3565	3880	1905	
HD414	3385	3890	4230	1905	
HD416	3665	4215	4570	2285	
HD418	3950	4540	4570	1425	

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MIU ESR-2552				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
MIU3.56/20	4030	4060	4060	210
MIU4.12/9	2305	2615	2820	210
MIU4.12/11	2880	3135	3135	210
MIU4.12/14	3170	3595	3875	210
MIU4.12/16	3455	3920	4045	210
MIU4.28/9	2305	2615	2820	210
MIU4.28/11	2880	3135	3135	210
MIU4.28/14	3170	3595	3875	210
MIU4.28/16	3455	3920	4045	210
MIU4.75/9	2305	2615	2820	210
MIU4.75/11	2880	3135	3135	210
MIU4.75/14	3170	3595	3875	210
MIU4.75/16	3455	3920	4045	210
MIU4.75/18	3745	4045	4045	210
MIU4.75/20	4030	4060	4060	210
MIU5.12/9	2305	2615	2820	210
MIU5.12/11	2880	3135	3135	210
MIU5.12/14	3170	3595	3875	210
MIU5.12/16	3455	3920	4045	210
MIU5.12/18	3745	4045	4045	210
MIU5.12/20	4030	4060	4060	210

MP No Code Listing	
Simpson Stock No.	
MP14	
MP24	
MP36	

MST ESR-2105		
Simpson Stock No.	DF / SP Design Load	
	Tension 160%	
	Nails	Bolts
MST27	3700	2165
MST37	5080	3025
MST48	5310	3675
MST60	6730	4485
MST72	6730	4485

MSTA ESR-2105	
Simpson Stock No.	DF / SP Design Load
	Tension 160%
MSTA9	750
MSTA12	940
MSTA15	1130
MSTA18	1315
MSTA21	1505
MSTA24	1640
MSTA30	2050
MSTA36	2050
MSTA49 *	2020

\*Not listed in ESR-2105

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THF HD ESR-1781				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
HD418	3950	4540	4570	1425
THF20925-2	1390	1600	1740	1115
THF20112-2	1855	2135	2320	1115
THF20140-2	2320	2670	2900	1115
THF20140-2	2320	2670	2900	1115
THF20925-2	1390	1600	1740	1115
THF20112-2	1855	2135	2320	1115
THF20140-2	2320	2670	2900	1115
THF20140-2	2320	2670	2900	1115
HD210-3	2540	2920	3175	1905
HD212-3	3100	3565	3880	1905
THF23140-2	2540	2920	3175	1220
THF23160-2	3050	3505	3810	1220
THF23160-2	3050	3505	3810	1220
THF23160-2	3050	3505	3810	1220
THF25925-2	1390	1600	1740	1115
THF25112-2	1855	2135	2320	1115
THF25140-2	2540	2920	3175	1220
THF25160-2	3050	3505	3810	1220
THF25160-2	3050	3505	3810	1220
THF25160-2	3050	3505	3810	1220

TPP No Code Listing	
USP Stock No.	
TPP14	
TPP24	
TPP58	

KST ESR-1831		
USP Stock No.	DF / SP Design Load	
	Tension 160%	
	Nails	Bolts
KST227	4540	2285
KST237	5140	3240
KST248	5140	3915
KST260	6720	4910
KST272	6720	4910

MSTA ESR-1781	
USP Stock No.	DF / SP Design Load
	Tension 160%
MSTA9	750
MSTA12	935
MSTA15	1125
MSTA18	1310
MSTA21	1500
MSTA24	1640
MSTA30	2065
MSTA36	2065
MSTA48	2045

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MSTAM		No ICC-ES or IAPMO Code Listings	
Simpson Stock No.	DF / SP Design Load	Uplift 160%	
		MSTAM24	1500
MSTAM36	1870		

MSTAM		No ICC-ES or IAPMO Code Listings	
USP Stock No.	DF / SP Design Load	Uplift 160%	
		MSTAM24	1545
MSTAM36	1945		

MSTC		ESR-2105	
Simpson Stock No.	DF-L / SP Design Load	Uplift 160%	
		MSTC28	3455
MSTC40	4745		
MSTC52	4745		
MSTC66	5860		
MSTC78	5860		

MSTC		ESR-1465	
USP Stock No.	DF-L / SP Design Load	Uplift 160%	
		MSTC28	3860
MSTC40	4715		
MSTC52	4715		
MSTC66	6015		
MSTC78	6015		

MSTCB		No ICC-ES or IAPMO Code Listings	
Simpson Stock No.	DF-L / SP Design Load	Uplift 160%	
		MSTC48B3	3930
MSTC66B3	4440		

MSTCB		No ICC-ES or IAPMO Code Listings	
USP Stock No.	DF-L / SP Design Load	Uplift 160%	
		XMSTC48B3	4800
MSTC66B3	5495		

MSTCM		No ICC-ES or IAPMO Code Listings	
Simpson Stock No.	DF-L / SP Design Load	Uplift 160%	
		MSTCM40	4220

MSTCM		No ICC-ES or IAPMO Code Listings	
USP Stock No.	DF-L / SP Design Load	Uplift 160%	
		MSTCM40	3665

MSTI		ESR-2105	
Simpson Stock No.	DF / SP Design Load	Uplift 160%	
		MSTI26	2745
MSTI36	3800		
MSTI48	5065		
MSTI60	5080		
MSTI72	5080		

KSTI		ESR-1831	
USP Stock No.	DF / SP Design Load	Uplift 160%	
		KSTI226	2810
KSTI236	3890		
KSTI248	5140		
KSTI260	5140		
KSTI272	5140		

MTHM		No Code Listing			
Simpson Stock No.	Header	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
MTHM	2 ply 2x6	4650	4650	4650	1790
MTHM	2 ply 2x8	5025	5025	5025	1790

HJHC		No Code Listing			
USP Stock No.	Header	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
HJHC26	2 ply 2x6	2980	3425	3505	1840
HJHC28	2 ply 2x8	3505	3505	3505	1840

MTS		ESR-2613	
Simpson Stock No.		DF-L / SP Design Load	
		Uplift 160%	
		10d x 1-1/2	10d
MTS12		1000	1000
MTS16		1000	1000
MTS18		1000	1000
MTS20		1000	1000
MTS30		1000	1000
MTS24C *		1000	1000
MTS30C *		1000	1000

MTW		ESR-2104	
USP Stock No.		DF-L / SP Design Load	
		Uplift 160%	
		10d x 1-1/2	10d
MTW12		1195	1195
MTW16		1195	1195
MTW18		1195	1195
MTW20		1195	1195
MTW30		1195	1195
MTW24C		1195	1195
MTW30C		1195	1195

\*Not listed in ESR-2613

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MTSM		No ICC-ES or IAPMO Code Listing	
Simpson Stock No.	DF-L / SP Design Load		Uplift 160%
MTSM16			860
MTSM20			860

MUS		ESR-2549		
Simpson Stock No.	Floor 100%	DF SP Design Load		Uplift 160%
		Roof		
		115%	125%	
MUS26	1295	1480	1605	1090
MUS28	1730	1795	2140	1555

N			No ICC-ES or IAPMO Code Listing		
Simpson Stock No.	Description			Finish	
N8	0.131" x 1-1/2"			HDG	
N8DHDG	0.131" x 1-1/2"			HDG	
N8D5HDG	0.131" x 1-1/2"			HDG	
N10	0.148" x 1-1/2"			HDG	
N10DHDG	0.148" x 1-1/2"			HDG	
N10D5HDG	0.148" x 1-1/2"			HDG	
N16	0.162" x 2-1/2"			Bright	

NCA		ESR-2608	
Simpson Stock No.			
NCA2x8-12			
NCA2x10-12			
NCA2x12-12			
NCA2x8-16			
NCA2x10-16			
NCA2x12-16			

NS		No ICC-ES or IAPMO Code Listing	
NSP		No ICC-ES or IAPMO Code Listing	
Simpson Stock No.			
NS1			
NS2			
NSP1			
NSP2			

O		No Code Listings		
Simpson Stock No.	DF / SP Design Load			F1 160%
	Uplift 160%	Tension 160%		
OS	1565	1565		--
OHS135	5045	5045		--
OL	1435	1435		565
OHL	1535	1535		565
OT	2585	2585		815
OHT	2585	2585		815
OHA33	--	--		--
OHA36	--	--		--

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HTWM		No ICC-ES or IAPMO Code Listing	
USP Stock No.	DF-L / SP Design Load		Uplift 160%
HTWM16			1225
HTWM20			1225

MUS		Submitted to IAPMO-ES		
USP Stock No.	Floor 100%	DF-L / SP Design Load		Uplift 160%
		Roof		
		115%	125%	
MUS26	1285	1475	1605	865
MUS28	1710	1970	2140	1230

NA			No ICC-ES or IAPMO Code Listing		
USP Stock No.	Description			Finish	
NA11	0.131" x 1-1/2"			HDG	
NA11-1MC	0.131" x 1-1/2"			HDG	
NA11-5MC	0.131" x 1-1/2"			HDG	
NA9D	0.148" x 1-1/2"			HDG	
NA9D-1MC	0.148" x 1-1/2"			HDG	
NA9D-5MC	0.148" x 1-1/2"			HDG	
NA16D	0.162" x 2-1/2"			HDG	

MBG		ESR-1781	
USP Stock No.			
MBG812			
MBG1012			
MBG1212			
MBG816			
MBG1016			
MBG1216			

PL		No ICC-ES or IAPMO Code Listing	
KNS		No ICC-ES or IAPMO Code Listing	
USP Stock No.			
KNS1			
PL4			
KNS1			
PL4			

Ornamentals		No Code Listings		
USP Stock No.	DF / SP Design Load			F1 160%
	Uplift 160%	Tension 160%		
ST12-O	--	--		--
KHST64-O	--	--		--
L12-O	--	--		--
LH12-O	--	--		--
T1212-O	--	--		--
TH12-O	--	--		--
KHL33-O	--	--		--
KHL36-O	--	--		--

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PA ER-5708		
Simpson Stock No.	Nailer Size	Design Load
		Concrete 160%
PA18	2x Ledger	2845
	1-3/4 LVL & 3x Ledger	2845
	4x Ledger	2605
PA23	2x Ledger	3685
	1-3/4 LVL & 3x Ledger	3685
	4x Ledger	3685
PA28	2x Ledger	3685
	1-3/4 LVL & 3x Ledger	3685
	4x Ledger	3685
PA35	2x Ledger	3685
	1-3/4 LVL & 3x Ledger	3685
	4x Ledger	3685

PA NER-505		
USP Stock No.	Nailer Size	Design Load *
		Concrete 160%
PA18	Max Capacity	3035
	1-3/4 LVL & 3x Ledger	3035
	4x Ledger	3035
PA23	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3700
	4x Ledger	3700
PA28	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3700
	4x Ledger	3700
PA35	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3700
	4x Ledger	3700

\*Design loads as listed in USP's 56th Edition Full Line Catalog

PA ER-5655	
Simpson Stock No.	DF-L / SP Design Load
	Uplift 160%
PA51	2030
PA68	2030

TA NER-505	
USP Stock No.	DF-L / SP Design Load *
	Uplift 160%
TA51	1905
TA71	1905

\*Design loads as listed in USP's 56th Edition Full Line Catalog

PAHD ER-1211				
Simpson Stock No.	Type	Min. Stem Wall	DF-L / SP Design Load	
			2500 psi Concrete	
			Edge Distance	
			1/2"	8"
PAHD42	Single Pour	6	1225	2205
	Single Pour	8	1400	2945
	Two Pour	6	1225	2205
	Two Pour	8	1400	2765

PAHD42 NER-505				
USP Stock No.	Type	Min. Stem Wall	DF-L / SP Design Load *	
			2500 psi Concrete	
			Edge Distance	
			1/2"	8"
PAHD42	Single Pour	6	2220	3065
	Single Pour	8	2220	3065
	Two Pour	6	2220	3065
	Two Pour	8	2220	3065

\*Design loads as listed in USP's 56th Edition Full Line Catalog

PAI ER-5708		
Simpson Stock No.	Nailer Size	DF-L / SP Design Load
		Concrete 160%
PAI18	2x Ledger	1805
	1-3/4 LVL & 3x Ledger	1505
	4x Ledger	1355
PAI23	2x Ledger	2560
	1-3/4 LVL & 3x Ledger	2255
	4x Ledger	2105
PAI28	2x Ledger	3460
	1-3/4 LVL & 3x Ledger	3160
	4x Ledger	3010
PAI35	2x Ledger	3685
	1-3/4 LVL & 3x Ledger	3685
	4x Ledger	3685

PAI NER-505		
USP Stock No.	Nailer Size	DF-L / SP Design Load *
		Concrete 160%
PAI18	Max Capacity	2475
	1-3/4 LVL & 3x Ledger	2475
	4x Ledger	2270
PAI23	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3510
	4x Ledger	3095
PAI28	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3700
	4x Ledger	3700
PAI35	Max Capacity	3700
	1-3/4 LVL & 3x Ledger	3700
	4x Ledger	3700

\*Design loads as listed in USP's 56th Edition Full Line Catalog

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PB		NER-443				
Simpson Stock No.	DF-L / SP Design Load 160%					
	Nails			Bolts		
	Uplift	F1	F2	Uplift	F1	F2
PB44	1365	765	1325	--	--	--
PB44R	1365	765	1325	--	--	--
PB46	1365	765	1325	--	--	--
PB66	1640	765	1325	1640	--	--
PB66R	1640	765	1325	1640	--	--

PBS		ER-5709			
Simpson Stock No.	Fastener Type	DF-L / SP Design Load			
		Uplift			Bearing 100%
		160%	160%	160%	
PBS44A	Nails	2400	1165	885	6665
	Bolts	2400	230	885	6665
PBS46	Nails	2400	1165	885	9335
	Bolts	2400	360	885	9335
PBS66	Nails	3160	1865	1700	9335
	Bolts	4000	570	1700	9335

PC		ESR-2604		
Simpson Stock No.	DF-L / SP Design Load 160%			
	Uplift	F1	F2	
PC44-16	1000	925	--	
PC44	1700	925	--	
PC46-16	1000	925	--	
PC46	1700	925	--	
PC48-16	1000	1475	--	
PC48	1700	2075	--	
PC64-16	1000	925	--	
PC64	1700	925	--	
PC66-16	1000	925	--	
PC66	1700	925	--	
PC68	1700	2075	--	
PC84	1700	925	--	
PC86	1700	925	--	
PC88	1700	2075	--	

PF		ESR-2553			
PFD		ESR-2553			
Simpson Stock No.	Floor 100%	Roof		Uplift 160%	
		115%	125%		
		PF24	955		955
PF24A	840	865	885	280	
PFD24	840	865	885	280	
PF26	955	955	955	310	
PF26A	970	1020	1050	620	
PFD26	1015	1070	1105	560	
PFDS26	970	1020	1050	620	

PGT		No Code Listing			
Simpson Stock No.	PGT2Z-R				

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WE		NER-530, ER-2039				
USP Stock No.	DF-L / SP Design Load 160% *					
	Nails			Bolts		
	Uplift	F1	F2	Uplift	F1	F2
WE44	1405	1180	1135	1430	1020	910
WE44R	1405	1180	1135	--	--	--
WE46	1405	1180	1135	1430	1020	910
WE66	2100	--	2860	--	--	--
WE66R	2100	--	2860	--	--	--

\*Design loads as listed in USP's 56th Edition Full Line Catalog

WAS		NER-608			
USP Stock No.	Fastener Type	DF-L / SP Design Load *			
		Nails (160%)			Bearing 100%
		Uplift	F1	F2	
WAS44	Nails	2600	1405	1300	6775
	Bolts	2600	1415	1300	6775
WAS44	Nails	2600	1405	1300	13815
	Bolts	2600	1485	1300	13815
WAS44	Nails	3295	2100	1540	16005
	Bolts	4370	2165	1540	16005

\*Design loads as listed in USP's 56th Edition Full Line Catalog

PCM		ESR-1781		
USP Stock No.	DF-L / SP Design Load 160%			
	Uplift	F1	F2	
PCM4416	1100	1300	1480	
PCM44	1900	1545	1850	
PCM4616	1100	1300	1480	
PCM46	1900	1545	1850	
PCM4816	1100	1300	1480	
PCM48	1900	1545	1850	
PCM6416	1120	1765	1765	
PCM64	1795	2115	1905	
PCM6616	1120	1765	1765	
PCM66	1795	2115	1905	
PCM68	1795	2115	1905	
PCM84	1795	2115	1905	
PCM86	1795	2115	1905	
PCM88	1795	2115	1905	

JPF		ESR-1465			
JDS		Submitted to IAPMO-ES			
FHD		No Code Listing			
USP Stock No.	Floor 100%	Roof		Uplift 160%	
		115%	125%		
		JPF24	1070		1070
JDS24S	575	575	575	340	
JDS24	1155	1155	1155	680	
JPF26	1070	1070	1070	315	
JDS26S	775	830	835	390	
JDS26	1575	1670	1670	775	
FHD26	1235	1235	1235	175	

PRT		No Code Listing			
USP Stock No.	PRT2-TZ				

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<b>PS</b> No Code Listing	
Simpson Stock No.	
PS218	
PS418	
PS720	

<b>PS</b> No Code Listing	
USP Stock No.	
PS218-HDG	
PS418-HDG	
PS720-HDG	

<b>PSCL</b> No Code Listing			
Simpson Stock No.	Span Rating	Maximum Roof Sheathing Span	
		With Clip	Without Clip
PSCL3/8	24/0	24	20
PSCL7/16	24/16	24	24
PSCA7/16	24/16	24	24
PSCL15/32	32/16	32	28
PSCA15/32	32/16	32	28
PSCL1/2	32/16	32	28
PSCL5/8	40/20	40	32
PSCL19/32	40/20	40	32
PSCL3/4	48/24	48	36

<b>PC</b> No Code Listing			
<b>RC</b> No Code Listing			
USP Stock No.	Span Rating	Maximum Roof Sheathing Span	
		With Clip	Without Clip
RC38-250	24	24	20
PC716	24	24	24
RC716-250	24	24	24
PC1532	32	32	28
PC1532	32	32	28
PC12	32	32	28
PC58	40	40	32
PC1932	40	40	32
PC34	48	48	36

<b>PSPNZ</b> No Code Listing		
Simpson Stock No.	Installation Type	DF-L / SP Design Load
		160%
PSPN58Z	-- --	-- --
PSPN516Z	Sill Plate	1365
	Double Top Plate	1820

<b>ICPL</b> No Code Listing		
USP Stock No.	Installation Type	DF-L / SP Design Load
		160%
ICPL58-TZ	-- --	-- --
ICPL516-TZ	Sill Plate	1355
	Double Top Plate	1805

<b>RBC</b> ER-112			
Simpson Stock No.	Application	Bending Angle	DF / SP Design Load
			Lateral 160%
RBC	Top Plate to Inside of Blocking	45° to 90°	445
	Top-Plate to Outside of Blocking	< 30°	435
		30° to 45°	480
	CMU Block	0° to 45°	350

<b>RBC</b> Submitted to IAPMO-ES			
USP Stock No.	Application	Bending Angle	DF / SP Design Load
			Lateral 160%
RBC	Top Plate to Inside of Blocking	45° to 90°	525
	Top-Plate to Outside of Blocking	< 30°	525
		30° to 45°	525
	CMU Block	0° to 45°	350

<b>RCWB</b> ESR-2608	
Simpson Stock No.	
RCWB12	
RCWB14	

<b>WBC</b> ESR-1831	
USP Stock No.	
WBC10	
WBC12	

<b>RFB</b> No Code Listing	
Simpson Stock No.	
RFB#4X5	
RFB#4X6	
RFB#4X8HDG-R	
RFB#5X16	

<b>THR</b> No Code Listing	
USP Stock No.	
THR125-HDGBMC	
THR126-HDGBMC	
THR128-HDGBMC	
THR5816-HDGBMC	

<b>RP</b> No Code Listing	
Simpson Stock No.	
RP6	

<b>RP6</b> No Code Listing	
USP Stock No.	
RP6	

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RPS		ESR-2608	
Simpson Stock No.	DF-L / SP Design Load		
	Tension (160%)		
RPS18	1380		
RPS22	1805		
RPS28	1805		

RSP		ESR-2613		
Simpson Stock No.	DF-L / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
RSP4	450	210	250	

SA		ESR-2607	
Simpson Stock No.	DF / SP Design Load		
	Horizontal		
	Nails 160%	Bolts 160%	
SA36	1900	1900	

SD		ESR-3046	
Simpson Stock No.	Size Inches	DF-L / SP Design Load	
		Shear (100)	
		Steel Side Plate 20 ga - 12 ga	
SD9112	#9 (0.131") x 1-1/2	171	
SD9212	#9 (0.131") x 2-1/2	200	

SDS		ESR-2236				
Simpson Stock No.	Size (Inches)	DF-L / SP Design Load				
		Shear (100)			Withdrawal (100)	
		Steel Side Plate			Wood or Steel	
		16 ga	14 ga & 12 ga	10 ga or >	Side Plate	
SDS25112	1/4 x 1-1/2	250	250	250	170	
SDS25200	1/4 x 2	250	290	290	215	
SDS25212	1/4 x 2-1/2	250	390	420	255	
SDS25300	1/4 x 3	250	420	420	345	
SDS25312	1/4 x 3-1/2	250	420	420	385	
SDS25412	1/4 x 4-1/2	250	420	420	475	
SDS25600	1/4 x 6	250	420	420	560	
SDS25800	1/4 x 8	250	420	420	560	

S/HD		No Code Listing					
Simpson Stock No.	Back-to-Back Studs	Allowable Tension Loads					
		2-33 mil (2-20ga)		2-43 mil (2-18ga)		2-54 mil (2-16ga)	
		Back-to-Back Studs		Back-to-Back Studs		Back-to-Back Studs	
		100%	133%	100%	133%	100%	133%
S/HD8S	8580	8580	11070	11070	11070	11070	
S/HD10S	8580	8580	11120	11120	12200	12200	
S/HD15S	8580	8580	11120	11120	13500	13500	

S/HTT		ER-5275	
Simpson Stock No.	Allowable Tension		
	.33 mil (20ga)		
	100%	133%	
S/HTT14	4325	2475	

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KRPS		No Code Listings	
USP Stock No.	DF-L / SP Design Load		
	Tension (160%)		
KRPS22	1720		
KRPS22	1720		
KRPS28	1720		

RSPT		ESR-1881		
USP Stock No.	DF-L / SP Design Load			
	Uplift 160%	F1 160%	F2 160%	
RSPT4	470	230	300	

KSA		ESR-1280	
USP Stock No.	DF-L / SP Design Load		
	Horizontal		
	Nails 160%	Bolts 160%	
KSA36	2620	2015	

LL		No Code Listing	
USP Stock No.	Size Inches	DF-L / SP Design Load *	
		Shear (100)	
		Steel Side Plate	
		18 ga	16 ga
LL915	#9 (0.131") x 1-3/8	105	131
LL930	#9 (0.131") x 2-7/8	176	163

WS		ESR-2761					
USP Stock No.	Size (Inches)	DF-L / SP Design Load					
		Shear (100)				Withdrawal (100)	
		Steel Side Plate				Wood or Steel	
		14 ga	10 ga	7 ga	3 ga	Side Plate	
WS15	1/4 x 1-1/2	230	261	259	266	164	
WS2	1/4 x 2	306	307	289	316	160	
WS25	1/4 x 2-1/2	362	352	338	369	199	
WS3	1/4 x 3	418	396	387	457	199	
WS35	1/4 x 3-1/2	451	460	454	481	208	
WS45	1/4 x 4-1/2	516	588	589	531	214	
WS6	1/4 x 6	516	588	589	531	214	
WS6	1/4 x 6	516	588	589	531	214	

TD_S		No Code Listing					
USP Stock No.	Back-to-Back Studs	Allowable Tension Loads					
		2-33 mil (2-20ga)		2-43 mil (2-18ga)		2-54 mil (2-16ga)	
		Back-to-Back Studs		Back-to-Back Studs		Back-to-Back Studs	
		100%	133%	100%	133%	100%	133%
TD8S	4655	6210	8110	9665	10310	10310	
TD10S	5820	7760	10140	11525	12910	12910	
TD15S	9310	12270	14345	14345	16585	16585	

HTT		No Code Listing	
USP Stock No.	Allowable Tension		
	.33 mil (20ga)		
	100%	133%	
HTT14S	2480	3290	



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S/LTT			ER-5275	
Simpson Stock No.	Allowable Tension			
	.33 mil (20ga)			
	100%		133%	
S/LTT20	1415		1600	

LTS			Submitted to ICC-ES	
USP Stock No.	Allowable Tension			
	.33 mil (20ga)			
	100%		133%	
LTS20B	885		1140	

SP				ESR-2613		
Simpson Stock No.	DF-L / SP Design Load 160%					
	Uplift	F1	F2			
SP1	585	--	--			
SP2	1065	--	--			
SP4	885	--	--			
SP6	885	--	--			
SP8	885	--	--			

SPT				ESR-1465, ESR-1881		
USP Stock No.	DF-L / SP Design Load 160%					
	Uplift	F1	F2			
SPT22	685	560	260			
SPT24	1030	560	260			
SPT4	945	--	--			
SPT6	945	--	--			
SPT8	945	--	--			

SPH			ESR-2613		
Simpson Stock No.	DF-L / SP Design Load				
	Uplift 160%				
SPH4	1360				
SPH4R *	1360				
SPH6	1360				
SPH6R *	1360				
SPH8	1360				

SPTH			ESR-1881		
USP Stock No.	DF-L / SP Design Load				
	Uplift 160%				
SPTH4	1730				
SPTHW4	1290				
SPTH6	1730				
SPTHW6	1290				
SPTH8	1730				

\*Not listed in ESR-2613

SS			ESR-2608	
Simpson Stock No.	DF-L / SP Design Load			
	Compression			
	100%		125%	
SS1.5	500		500	
SS3	665		785	
SS4.5	665		785	

STS			No Code Listing	
USP Stock No.	DF-L / SP Design Load			
	Compression			
	100%		125%	
STS1	--		--	
STS2	--		--	
STS3	--		--	

SSP			ESR-2613	
Simpson Stock No.	Plate	DF-L / SP Design Load		
		Uplift 160%		
SSP	Single Sill	420		
	Double Top	350		

RSPT			ESR-1881	
USP Stock No.	Plate	DF-L / SP Design Load		
		Uplift 160%		
RSPT6	Single Sill	700		
	Double Top	700		

ST			ESR-2105	
Simpson Stock No.	DF-L / SP Design Load			
	160%			
ST292	1265			
ST2122	1530			
ST2215	1875			
ST6215	2095			
ST6224	2540			
ST6236	3845			
ST9	885			
ST12	1105			
ST18	1420			
ST22	1420			
ST2115	660			

KST			ESR-1831	
USP Stock No.	DF-L / SP Design Load			
	160%			
KST29	1680			
KST213	1785			
KST216	1785			
KST218	2960			
KST224	2960			
KST234	3775			
ST9	885			
ST12	1105			
ST18	1395			
ST22	1395			
KST116	665			

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STC				
No Code Listing				
Simpson Stock No.	DF-L / SP Design Load 160%			
	Without Gap		With 1/4" Max Gap	
	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
STC	85	55	35	35

STHD				
ESR-2920				
USP Stock No.	Min. Stem (inches)	Strap Location	DF / SP Uplift 160%	
			Wind and SDC A & B	SDC C-F
			Uncracked	
STHD10	6	Corner	3820	2750
STHD10RJ	6	Corner	3820	2750
STHD14	6	Corner	5150	3695
STHD14RJ	6	Corner	5150	3695
Cracked				
STHD10	6	Corner	3140	2640
STHD10RJ	6	Corner	3140	2640
STHD14	6	Corner	5150	3695
STHD14RJ	6	Corner	5150	3695

SUR/SUL				
ESR-2549, ESR-2552				
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
SUR/L24	575	655	705	450
SUR/L26	865	980	1055	765
SUR/L210	1440	1635	1760	1250
SUR/L214	1730	1960	2115	2165
SUR/L1.81/9 *	1730	1960	2030	225
SUR/L1.81/11 *	2305	2615	2730	225
SUR/L1.81/14 *	2500	2500	2500	225
SUR/L2.06/9	2015	2285	2465	225
SUR/L2.06/11 *	2305	2615	2665	225
SUR/L2.06/14 *	2590	2665	2665	225
SUR/L2.1/9 *	2015	2285	2465	225
SUR/L2.1/11 *	2305	2615	2665	225
SUR/L2.1/14 *	2590	2665	2665	225
SUR/L2.37/9 *	2015	2285	2465	225
SUR/L2.37/11 *	2305	2615	2665	225
SUR/L2.37/14 *	2590	2665	2665	225
SUR/L2.56/9 *	2015	2285	2465	225
SUR/L2.56/11 *	2305	2615	2665	225
SUR/L2.56/14 *	2590	2665	2665	225
SUR/L26-2	1150	1305	1400	815
SUR/L210-2	2015	2285	2465	1300
SUR/L214-2 *	2500	2500	2500	1765
SUR/L46 *	1150	1305	1400	815
SUR/L410	2015	2285	2465	1300
SUR/L414	2500	2500	2500	1765

\*Not listed in ESR-2549 or ESR-2552

T	
No Code Listing	
Simpson Stock No.	
66T	
128T	

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TR				
No Code Listing				
USP Stock No.	DF-L / SP Design Load 160%			
	Without Gap		With 1/4" Max Gap	
	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>
TR1	85	50	35	35

STAD				
ESR-2787				
USP Stock No.	Min. Stem (inches)	Strap Location	DF / SP Uplift 160%	
			Wind and SDC A & B	SDC C-F
			Uncracked	
STAD10	6	Corner	2405	2060
STAD10RJ	6	Corner	2405	2060
STAD14	6	Corner	5035	4030
STAD14RJ	6	Corner	5035	4030
Cracked				
STAD10	6	Corner	1685	1445
STAD10RJ	6	Corner	1685	1445
STAD14	6	Corner	3525	3020
STAD14RJ	6	Corner	3525	3020

SKH_L/R				
ESR-1781				
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
SKH24L/R	510	510	510	565
SKH26L/R	830	890	890	1085
SKH210L/R	1790	1790	1790	1565
SKH1524L/R	1855	1990	1990	1565
SKH1720L/R	1625	1870	2030	1565
SKH1724L/R	1855	2135	2320	1565
SKH1724L/R	1855	2135	2320	1565
SKH2020L/R	1625	1870	2030	1565
SKH2024L/R	1855	2135	2320	1565
SKH2024L/R	1855	2135	2320	1565
SKH2020L/R	1625	1870	2030	1565
SKH2024L/R	1855	2135	2320	1565
SKH2024L/R	1855	2135	2320	1565
SKH2024L/R	1855	2135	2320	1565
SKH2320L/R	1625	1870	2030	1565
SKH2324L/R	1855	2135	2320	1565
SKH2324L/R	1855	2135	2320	1565
SKH2324L/R	1855	2135	2320	1565
SKH2520L/R	1625	1870	2030	1565
SKH2524L/R	1855	2135	2320	1565
SKH2524L/R	1855	2135	2320	1565
SKH26L/R-2	830	950	1035	1115
SKH210L/R-2	1930	2220	2415	1565
SKH1524L/R-2	1855	2135	2320	1565
SKH46L/R	1410	1590	1590	1355
SKH410L/R	2255	2540	2540	1565
SKH414L/R	3100	3565	3880	1565

T	
No Code Listing	
USP Stock No.	
T6	
T12	

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TA		No Code Listing	
Simpson Stock No.	DF-L / SP Design Load	Download	
		100%	
TA9		750	
TA9Z		750	
TA10		750	
TA10Z		750	

SCA		ESR-1280	
USP Stock No.	DF-L / SP Design Load	Download	
		100%	
SCA9-TZ		335	
SCA9-TZ		335	
SCA10-TZ		450	
SCA10-TZ		450	

TB		ESR-2608	
Simpson Stock No.			
TB20			
TB27			
TB30			
TB36			
TB42			
TB48			
TB54			
TB56			
TB60			

N		ESR-1781	
USP Stock No.			
N16			
N27			
N30			
N36			
N42			
N48			
N54			
N56			
N60			

TBE		ESR-2605				
Simpson Stock No.	No. of Plys	Uplift 160%	Bearing *		Lateral (160%)	
			115%	125%	F1	F2
TBE4	1 Ply	850	2095	2230	400	1000
	2 Ply	850	2230	2230	400	1000
TBE6	1 Ply	935	2095	2275	300	1000
	2 Ply	935	2555	2735	300	1000

SBP		ESR-1831				
USP Stock No.	No. of Plys	Uplift 160%	Bearing *		Lateral (160%)	
			115%	125%	F1	F2
SBP4	1 Ply	1295	2600	2825	1390	1630
	2 Ply	1295	2670	2900	1390	1630
SBP6	1 Ply	1295	3640	3955	1390	1630
	2 Ply	1295	3735	4060	1390	1630

\*Not listed in ESR-2605

\*Not listed in ESR-1831

TC		NER-413, ESR-2605	
Simpson Stock No.	DF-L / SP Design Load	160%	
		Uplift	F1
TC24		400	--
TC26		665	--
TC28		665	--

STC		ESR-1465	
USP Stock No.	DF-L / SP Design Load	160%	
		Uplift	F1
STC24		810	330
STC26		810	330
STC28		810	330

THA		ESR-2551			
Stock No.	Mounting Condition	DF-L / SP Design Load			Uplift 160%
		Floor 100%	Roof		
		115%	125%	160%	
THA29	Top Min	2260	2310	2350	560
	Face Max	2125	2310	2350	560
THA213	Top Min	1615	1615	1615	--
	Face Max	1795	1840	1870	1170
THA218	Top Min	1615	1615	1615	--
	Face Max	1795	1840	1870	1170
THA218-2	Top Min	2245	2245	2245	--
	Face Max	3695	3695	3695	1855
THA222-2	Top Min	2245	2245	2245	--
	Face Max	3695	3695	3695	1855
THA413	Top Min	1615	1615	1615	--
	Face Max	1940	2235	2400	1170
THA418	Top Min	2245	2245	2245	--
	Face Max	3695	3695	3695	1855

MSH		ESR-1831			
Stock No.	Mounting Condition	DF-L / SP Design Load			Uplift 160%
		Floor 100%	Roof		
		115%	125%	160%	
MSH29	Top Min	2425	2425	2425	--
	Face Max	2445	2635	2680	785
MSH213	Top Min	2425	2425	2425	--
	Face Max	2565	2635	2680	785
MSH218	Top Min	2425	2425	2425	--
	Face Max	2565	2635	2680	785
MSH218-2	Top Min	2210	2210	2210	--
	Face Max	1855	2135	2320	605
MSH222-2	Top Min	2210	2210	2210	--
	Face Max	2550	2935	3190	605
MSH413	Top Min	2025	2025	2025	--
	Face Max	2210	2545	2765	1570
MSH418	Top Min	2025	2025	2025	--
	Face Max	2675	3075	3345	1570

continued on next page

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THA		ESR-2551			
THAC		ESR-2551			
Stock No.	Mounting Condition	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
THAC418	Top Min	2245	2245	2245	.
	Face Max	3695	3695	3695	1855
THA422	Top Min	2245	2245	2245	--
	Face Max	3695	3695	3695	1855
THAC422	Top Min	2245	2245	2245	--
	Face Max	3695	3695	3695	1855
THA426 *	Top Min	2435	2435	2435	--
	Face Max	4550	4550	4550	1855
THAC426 *	Top Min	2435	2435	2435	--
	Face Max	4550	4550	4550	1855
THA422-2 *	Top Min	3330	3330	3330	--
	Face Max	5160	5520	5520	1855
THAC422-2 *	Top Min	3330	3330	3330	--
	Face Max	5160	5520	5520	1855

\*Not listed in ESR-2551

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MSH		ESR-1831			
MSHIF		ESR-1831			
Stock No.	Mounting Condition	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
MSH422IF	Top Min	2210	2210	2210	--
	Face Max	2550	2935	3190	605
MSH422	Top Min	2025	2025	2025	--
	Face Max	3140	3470	3470	1570
MSH422IF	Top Min	2210	2210	2210	--
	Face Max	2550	2935	3190	605
MSH426	Top Min	2735	2735	2735	--
	Face Max	--	--	--	--
MSH426IF	Top Min	2735	2735	2735	--
	Face Max	--	--	--	--
MSH422-2	Top Min	3690	3775	3830	--
	Face Max	3665	4215	4585	1175
MSH422-2IF	Top Min	3690	3775	3830	--
	Face Max	3665	4215	4585	1175

\*Not listed in ESR-1831

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THAI		ESR-2551			
Simpson Stock No.	Mounting Condition	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
THAI222	Top Min	1835	1835	1835	--
	Face Max	2200	2200	2200	215
THAI1.81/22	Top Min	1835	1835	1835	--
	Face Max	2200	2200	2200	215
THAI3522	Top Min	1835	1835	1835	--
	Face Max	2200	2200	2200	215
THAI322	Top Min	1835	1835	1835	--
	Face Max	2200	2200	2200	215
THAI422	Top Min	1835	1835	1835	--
	Face Max	2200	2200	2200	215

MSH		ESR-1831			
USP Stock No.	Mounting Condition	DF-L / SP Design Load			
		Floor 100%	Roof		Uplift 160%
			115%	125%	
MSH222	Top Min	2090	2155	2165	--
	Face Max	2090	2155	2200	595
MSH1722	Top Min	2165	2165	2165	--
	Face Max	2200	2200	2200	595
MSH2322	Top Min	2165	2165	2165	--
	Face Max	2200	2200	2200	595
MSH322	Top Min	2165	2165	2165	--
	Face Max	2200	2200	2200	595
MSH422	Top Min	2025	2025	2025	--
	Face Max	3140	3470	3470	1570

THGB		No ICC-ES or IAPMO-ES Code Listing		
THGBH		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	Supporting Member	DF-L / SP Design Load		
		100%	115%	Uplift 160%
THGB2	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBH2	2 Ply	10105	10345	2570
	3 Ply	10915	10915	2570
THGB3	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBH3	2 Ply	10915	10915	2570
	3 Ply	12665	12665	2570
THGBH4	2 Ply	10915	10915	2570
	3 Ply	13830	15060	2570

GT		ESR-1831		
USP Stock No.	Supporting Member	DF-L / SP Design Load		
		100%	115%	Uplift *
GT2T4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT2T8B	2 Ply	11815	13585	2000
	3 Ply	13355	13870	2000
GT3T4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT3T8B	2 Ply	11815	13585	2000
	3 Ply	13355	15360	2000
GT4T8B	2 Ply	11810	13580	2000
	3 Ply	13360	15365	2000

\*Not listed in ESR-1831

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THGBV THGBHV		No ICC-ES or IAPMO-ES Code Listing		
Simpson Stock No.	Supporting Member	DF-L / SP Design Load		
		100%	115%	Uplift 160%
THGBV3.62/9	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBV3.62/11	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBHV3.62/9	2 Ply	10105	10345	2570
	3 Ply	10915	10915	2570
THGBHV3.62/11	2 Ply	10105	10345	2570
	3 Ply	10915	10915	2570
THGBV5.50/9	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBV5.50/11	2 Ply	6030	6835	2570
	3 Ply	6910	7780	2570
THGBHV5.50/9	2 Ply	10915	10915	2570
	3 Ply	12665	12665	2570
THGBHV5.50/11	2 Ply	10915	10915	2570
	3 Ply	12665	12665	2570
THGBHV7.25/9	2 Ply	10915	10915	2570
	3 Ply	13830	15060	2570
THGBHV7.25/11	2 Ply	10915	10915	2570
	3 Ply	13830	15060	2570

GT		ESR-1831		
USP Stock No.	Supporting Member	DF-L / SP Design Load		
		100%	115%	Uplift *
GT2M4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT2M4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT2M8B	2 Ply	11815	13585	2000
	3 Ply	13355	13870	2000
GT2M8B	2 Ply	11815	13585	2000
	3 Ply	13355	13870	2000
GT3M4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT3M4B	2 Ply	5905	6790	2000
	3 Ply	6680	7680	2000
GT3M8B	2 Ply	11815	13585	2000
	3 Ply	13355	15360	2000
GT3M8B	2 Ply	11815	13585	2000
	3 Ply	13355	15360	2000
GT4M8B	2 Ply	11810	13580	2000
	3 Ply	13360	15365	2000
GT4M8B	2 Ply	11810	13580	2000
	3 Ply	13360	15365	2000

\*Not listed in ESR-1831

THGQ THGQH		No ICC-ES or IAPMO-ES Code Listing			
Simpson Stock No.	Min Vertical Web Size	DF-L / SP Design Load			
		100%	115%	125%	Uplift 160%
THGQ2-SDS3 (Min)	2x6	7920	7920	7920	3600
	2x8	10080	10080	10080	3600
THGQ2-SDS3 (Max)	2x6	9240	9770	9770	4535
	2x8	11760	12435	12435	4535
THGQH2-SDS3 (Min)	2x6	7560	8275	8275	3875
	2x8	11760	11950	11950	3875
THGQH2-SDS3 (Max)	2x6	7560	7940	7940	7635
	2x8	11760	12350	12350	9900
THGQ3-SDS4.5 (Min)	2x6	7920	7920	7920	3600
	2x8	10080	10080	10080	3600
THGQ3-SDS4.5 (Max)	2x6	9140	9140	9140	4535
	2x8	11635	11635	11635	4535
THGQH4-SDS6 (Min)	2x8	13875	13875	13875	3875
	2x10	16320	16320	16320	3875
THGQH4-SDS6 (Max)	2x8	14280	14335	14335	9900
	2x10	16800	16865	16865	9900

GTQ		No ICC-ES or IAPMO-ES Code Listing			
USP Stock No.	Min Vertical Web Size	DF-L / SP Design Load			
		100%	115%	125%	Uplift 160%
GTQ218	2x6	6965	7900	7900	4650
	2x8	11610	13160	13160	4650
GTQ218	2x6	6965	7900	7900	4650
	2x8	11610	13160	13160	4650
GTQ218	2x6	6965	7900	7900	4650
	2x8	11610	13160	13160	4650
GTQ218	2x6	6965	7900	7900	4650
	2x8	11610	13160	13160	4650
GTQ318	2x6	9675	11125	11180	4650
	2x8	13545	14335	14335	4815
GTQ318	2x6	9675	11125	11180	4650
	2x8	13545	14335	14335	4815
GTQ420	2x8	14235	14235	14235	4745
	2x10	14090	14090	14090	4745
GTQ420	2x8	14235	14235	14235	4745
	2x10	14090	14090	14090	4745

THJA		ESR-2554		
Simpson Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
THJA26	2680	3080	3265	960

HJC		ESR-1465		
USP Stock No.	Floor 100%	Roof		Uplift 160%
		115%	125%	
HJC26	2385	2740	2980	1840

THJU		No ICC-ES or IAPMO Code Listing			
Simpson Stock No.	Min Carried Member	Floor 100%	Roof		Uplift 160%
			115%	125%	
THJU26	2x6	2350	2350	2350	1310

HJC		ESR-1465			
USP Stock No.	Min Heel Height	Floor 100%	Roof		Uplift 160%
			115%	125%	
HJC26	3-1/2	2385	2740	2980	1840

## SIMPSON Strong-Tie Connectors®

TJC			ER-112	
Simpson Stock No.	DF-L / SP Design Load		Download (100 / 115 / 125)	
	1° to 60°		61° to 67.5°	
	TJC37 (Min)	300	320	
TJC37 (Max)	485	425		

TP		No Code Listing	
Simpson Stock No.			
TP15			
TP35			
TP37			
TP39			
TP311			
TP45			
TP47			
TP49			
TP411			
TP57			

TS			No Code Listing	
Simpson Stock No.	DF-L / SP Design Load			
	Uplift 160%			
TS9	530			
TS12	665			
TS18	930			
TS22	1215			

TSBR				No ICC-ES or IAPMO Code Listing	
Simpson Stock No.	DF-L / SP Design Load		Compression		Tension
	160%		160%		160%
	TSBR2-16 (Min)	540	180		
TSBR2-16 (Max)	540	455			
TSBR2-24 (Min)	500	180			
TSBR2-24 (Max)	500	455			

TSF		No Code Listing	
Simpson Stock No.			
TSF2-24			

TSP			No ICC-ES or IAPMO-ES Code Listing	
Simpson Stock No.	DF-L / SP Design Load			
	Uplift 160%			
TSP	890			

TSS		No Code Listing	
Simpson Stock No.			
TSS2			
TSS2-2			
TSS4			

## USP Structural Connectors®

SNP			ESR-2104	
USP Stock No.	DF-L / SP Design Load		Download (100 / 115 / 125)	
	45° to 60°		61° to 90°	
	SNP3	530	530	
SNP3	530	530		

NP		No Code Listing	
USP Stock No.			
NP15			
NP35			
NP37			
NP39			
NP311			
NP45			
NP47			
NP49			
NP411			
NP57			

HTW			ESR-2104	
MTW			ESR-2104	
USP Stock No.	DF-L / SP Design Load			
	Uplift 160%			
MTW12	1195			
MTW12	1195			
MTW18	1195			
HTW20	1530			

ST				ESR-2362	
USP Stock No.	DF-L / SP Design Load		Compression		Tension
	160%		160%		160%
	ST164H	420	155		
ST164H	420	155			
ST24H	420	155			
ST24H	420	155			

TSX		No Code Listing	
USP Stock No.			
TSX24			

LFTA			ESR-2104	
USP Stock No.	DF-L / SP Design Load *			
	Uplift 160%			
LFTA6	1210			

\*Strap must wrap under sill plate or over top plate to achieve design load.

NOP		No Code Listing	
USP Stock No.			
NOP1			
NOP2X			
NOP4			

**SIMPSON Strong-Tie Connectors®**

**USP Structural Connectors®**

TWB		ESR-2608
Simpson Stock No.	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
TWB10		
TWB12		
TWB14		

WBT		ESR-1831
USP Stock No.	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
WBT10		
WBT12		
WBT14		

U		ESR-2549, ESR-2552		
Simpson Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
U24	575	655	705	265
U26	865	980	1055	585
U210	1440	1635	1685	1110
U214	1730	1960	2115	1115
U34	575	655	705	265
U36	1150	1305	1410	585
U310	2015	2285	2465	1110
U314	2305	2615	2820	1110
U24-2	575	655	705	370
U26-2	1150	1305	1410	740
U210-2	2015	2285	2465	1110
U44	575	655	705	370
U46	1150	1305	1410	740
U410	2015	2285	2465	1110
U414	2305	2615	2820	1110
U26-3	1150	1305	1410	740
U210-3	2015	2285	2075	2465
U66	1150	1305	1410	740
U610	2015	2285	2465	1110
U24R	575	655	705	265
U26R	1150	1305	1410	585
U210R	2015	2285	2465	1110
U44R	575	655	705	440
U46R	1150	1305	1410	885
U410R	2015	2285	2465	1115
U66R	1150	1305	1410	885
U610R	2015	2285	2465	1115
U14	2015	2285	2465	1110
U3510/14	2015	2285	2465	1110
U3510-2	2015	2285	2465	1110
U3512-2	2305	2615	2820	1110

SUH		ESR-1280		
HD		ESR-1781		
THF		ESR-1781		
USP Stock No.	DF-L / SP Design Load			
	Floor 100%	Roof		Uplift 160%
		115%	125%	
SUH24	550	635	690	360
SUH26	830	950	1035	725
SUH210	1380	1585	1725	1085
SUH214	1655	1905	2070	1330
SUH34	830	850	850	360
SUH36	1105	1270	1380	725
SUH310	1930	2220	2415	1085
SUH314	2210	2505	2505	1085
SUH24-2	830	950	1035	370
SUH26-2	1105	1270	1380	740
SUH210-2	1930	2220	2415	1115
SUH44	830	950	1035	370
SUH46	1105	1270	1380	740
SUH410	1930	2220	2415	1115
SUH414	2210	2540	2760	1115
SUH26-3	1105	1270	1380	370
SUH210-3	1930	2220	2415	1115
SUH66	1105	1270	1380	740
SUH610	1930	2220	2415	1115
SUH24R	550	635	690	360
SUH26R	830	950	1035	725
SUH210R	1380	1585	1725	1085
SUH44R	830	950	1035	440
SUH46R	1105	1270	1380	885
SUH410R	1930	2220	2415	1325
SUH66R	1105	1270	1380	885
SUH610R	1930	2220	2415	1325
HD1714	3100	3235	3330	1065
THF23925	1370	1575	1710	175
THF23925-2	1625	1870	2030	1115
THF23118-2	1855	2135	2320	1115

VB		ESR-2607		
Simpson Stock No.	DF-L / SP Design Load			
	Tension			160%
	100%	125%		
VB5	990	1240	--	--
VB7	990	1240	--	--
VB8	990	1240	--	--
VB10	990	1240	--	--
VB12	990	1240	--	--

KVB		ESR-1280		
USP Stock No.	DF-L / SP Design Load *			
	Tension			160%
	100%	125%		
KVB5	1800	1800	1800	1800
KVB7	1800	1800	1800	1800
KVB8	1800	1800	1800	1800
KVB10	1800	1800	1800	1800
KVB12	1800	1800	1800	1800

\*Design loads as listed in USP's 56th Edition Full Line Catalog

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## SIMPSON Strong-Tie Connectors®

VPA			ESR-2551
Simpson Stock No.	DF-L / SP Design Load		
	Down	Uplift	
	100%	160%	
VPA2	1050	295	
VPA2	1050	295	
VPA25	1050	295	
VPA25	1050	295	
VPA2.06 *	1230	295	
VPA2.06 *	1230	295	
VPA2.1 *	1230	295	
VPA2.1 *	1230	295	
VPA35	1230	295	
VPA35	1230	295	
VPA3	1230	295	
VPA3	1230	295	
VPA4	1230	295	
VPA4	1230	295	

\*Not listed in ESR-2551

VPA adjusts from 3:12 to 12:12.

W1		No Code Listing
Simpson Stock No.		
W1		

W				ESR-2553
Simpson Stock No.	DF-L / SP Design Load			
	Download			
	100%	115%	125%	
W26	2200	2200	2200	
W28	2200	2200	2200	
W210	2200	2200	2200	
W212	2200	2200	2200	
W214	2200	2200	2200	
W216	2200	2200	2200	
W36	2200	2200	2200	
W38	2200	2200	2200	
W310	2200	2200	2200	
W46	2200	2200	2200	
W48	2200	2200	2200	
W410	2200	2200	2200	

WB		ESR-2608
Simpson Stock No.		
WB106	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
WB126		

WBC		ESR-2608
Simpson Stock No.		
WB106C	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
WB126C		
WB143C		

## USP Structural Connectors®

TMP			ESR-1781
TMPH			ESR-1831
USP Stock No.	DF-L / SP Design Load		
	Down	Uplift	
	100%	160%	
TMP2	990	220	
TMPH2	1950 *	200	
TMP175	1150	220	
TMPH175	1950 *	200	
TMP21	1290	220	
TMPH21	1950 *	200	
TMP21	1290	220	
TMPH21	1950 *	200	
TMP23	1970	220	
TMPH23	1950 *	200	
TMP25	1970	220	
TMPH25	1950 *	200	
TMP4	1970	220	
TMPH4	1950 *	200	

\*Design load based on 14/12 pitch

TMP adjusts from 1/12 to 6/12 & TMPH adjusts from 6/12 to 14/12.

WG		No Code Listing
USP Stock No.		
WG		

SW				ESR-2104
USP Stock No.	DF-L / SP Design Load			
	Download			
	100%	115%	125%	
SW26	2315	2315	2315	
SW28	2315	2315	2315	
SW210	2315	2315	2315	
SW212	2315	2315	2315	
SW214	2315	2315	2315	
SW216	2315	2315	2315	
SW36	2315	2315	2315	
SW38	2315	2315	2315	
SW310	2315	2315	2315	
SW46	2520	2520	2520	
SW48	2520	2520	2520	
SW410	2520	2520	2520	

WB		ESR-1781
USP Stock No.		
WB106	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
WB126		

RWB		ESR-1831
USP Stock No.		
RWB96	These are code-approved for value in tension equal to 1" x 4" wood let-in bracing.	
RWB114		
RWB143		



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Simpson Stock No.	ESR-2877		
	Floor 100%	Design Load Roof	
		115%	125%
WM210	2540	2565	2590
WM210-2	4175	4175	4175
WM212	2540	2565	2590
WM212-2	4175	4175	4175
WM214	2540	2565	2590
WM214-2	4175	4175	4175
WM216	2540	2565	2585
WM216-2	4175	4175	4175
WM310	4100	4130	4150
WM312	4100	4130	4150
WM314	4100	4130	4150
WM316	4100	4130	4150
WM410	4175	4175	4175
WM412	4175	4175	4175
WM414	4175	4175	4175
WM416	4175	4175	4175
WM610	4175	4175	4175
WM29.25	4175	4175	4175
WM29.5	4175	4175	4175
WM211.25	4175	4175	4175
WM211.88	4175	4175	4175
WM9	4175	4175	4175
WM11	4175	4175	4175
WM14	4175	4175	4175
WM16	4175	4175	4175
WM3511.88	4175	4175	4175
WM3514	4175	4175	4175
WM3516	4175	4175	4175
WM3518	4175	4175	4175
WM3520	4175	4175	4175
WMI314	4175	4175	4175
WMI316	4175	4175	4175
WMI318	4175	4175	4175
WMI320	4175	4175	4175
WM29.25-2	4175	4175	4175
WM29.5-2	4175	4175	4175
WM211.25-2	4175	4175	4175
WM211.88-2	4175	4175	4175
WM3.56/9.5	4175	4175	4175
WM3.56/11.88	4175	4175	4175
WMI412	4175	4175	4175
WMI414	4175	4175	4175
WMI416	4175	4175	4175
WMI418	4175	4175	4175
WMI420	4175	4175	4175
WM3511.88-2	4175	4175	4175
WM3514-2	4175	4175	4175
WM3516-2	4175	4175	4175
WM3518-2	4175	4175	4175
WM3520-2	4175	4175	4175

USP Stock No.	ESR-1781		
	Floor 100%	Design Load Roof	
		115%	125%
MPH210	2585	2620	2645
MPH210-2	4280	4280	4280
MPH212	2585	2620	2645
MPH212-2	4280	4280	4280
MPH214	2585	2620	2645
MPH214-2	4280	4280	4280
MPH216	2585	2620	2645
MPH216-2	4280	4280	4280
MPH310	3240	3240	3240
MPH312	3240	3240	3240
MPH314	3240	3240	3240
MPH316	3240	3240	3240
MPH410	4280	4280	4280
MPH412	4280	4280	4280
MPH414	4280	4280	4280
MPH416	4280	4280	4280
MPH610	4280	4280	4280
MPH210	2585	2620	2645
MPH1595	2585	2620	2645
MPH212	2585	2620	2645
MPH15118	2585	2620	2645
MPH1795	2975	3010	3035
MPH17118	2975	3010	3035
MPH1714	2975	3010	3035
MPH1716	2975	3010	3035
MPH23118	3855	3890	3915
MPH2314	3855	3890	3915
MPH2316	3855	3890	3915
MPH2318	3855	3890	3915
MPH2320	3855	3890	3915
MPH2514	4145	4180	4205
MPH2516	4145	4180	4205
MPH2518	4145	4180	4205
MPH2520	4145	4180	4205
MPH210-2	4280	4280	4280
MPH1595-2	4280	4280	4280
MPH15112-2	4280	4280	4280
MPH15118-2	4280	4280	4280
MPH1795-2	4280	4280	4280
MPH17118-2	4280	4280	4280
MPH3512	4280	4280	4280
MPH3514	4280	4280	4280
MPH3516	4280	4280	4280
MPH3518	4280	4280	4280
MPH3520	4280	4280	4280
MPH23118-2	4280	4280	4280
MPH2314-2	4280	4280	4280
MPH2316-2	4280	4280	4280
MPH2318-2	4280	4280	4280
MPH2320-2	4280	4280	4280

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<b>WM</b>		ESR-2877		
Simpson Stock No.	Design Load			
	Floor 100%	Roof		125%
		115%	125%	
WM5.50/9.5	4175	4175	4175	4175
WM5.50/11.88	4175	4175	4175	4175
WMI49.5-2	4175	4175	4175	4175
WMI411.25-2	4175	4175	4175	4175
WMI411.88-2	4175	4175	4175	4175
WMI414-2	4175	4175	4175	4175
WMI416-2	4175	4175	4175	4175
WMI418-2	4175	4175	4175	4175

<b>WNP</b>		ESR-2553		
Simpson Stock No.	DF-L / SP Design L			
	Download			
	100%	115%	125%	
WNP312	3255	3255	3255	3255
WNP314	3255	3255	3255	3255
WNP316	3255	3255	3255	3255
WNP412	3255	3255	3255	3255
WNP414	3255	3255	3255	3255
WNP416	3255	3255	3255	3255
WNP26-2	3255	3255	3255	3255
WNP28-2	3255	3255	3255	3255
WNP210-2	3255	3255	3255	3255
WNP212-2	3255	3255	3255	3255
WNP214-2	3255	3255	3255	3255
WNP216-2	3255	3255	3255	3255
WNP66	3255	3255	3255	3255
WNP68	3255	3255	3255	3255
WNP610	3255	3255	3255	3255

<b>WP</b>		ESR-2615				
<b>WPI</b>		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	DF I-Joist 100%
WP1.817/25	3635	3320	3635	3255	2600	2030
WP9.25	3635	3320	3635	3255	2600	2030
WP9	3635	3320	3635	3255	2600	2030
WP11	3635	3320	3635	3255	2600	2030
WP14	3635	3320	3635	3255	2600	2030
WP16	3635	3320	3635	3255	2600	2030
WP3514	3635	3320	3635	3255	2600	2030
WP3516	3635	3320	3635	3255	2600	2030
WP3518	3635	3320	3635	3255	2600	2030
WP3520	3635	3320	3635	3255	2600	2030
WPI314	3635	3320	3635	3255	2600	2030
WPI316	3635	3320	3635	3255	2600	2030
WPI322	3635	3320	3635	3255	2600	2030
WPI324	3635	3320	3635	3255	2600	2030
WPI326	3635	3320	3635	3255	2600	2030
WP29.25-2	3635	3320	3635	3255	2600	2030
WP29.5-2	3635	3320	3635	3255	2600	2030

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<b>MPH</b>		ESR-1781		
USP Stock No.	Design Load			
	Floor 100%	Roof		125%
		115%	125%	
MPH5595	4280	4280	4280	4280
MPH55118	4280	4280	4280	4280
MPH3595-2	4280	4280	4280	4280
MPH35112-2	4280	4280	4280	4280
MPH35118-2	4280	4280	4280	4280
MPH3514-2	4280	4280	4280	4280
MPH3516-2	4280	4280	4280	4280
MPH3518-2	4280	4280	4280	4280

<b>SWH</b>		ESR-2104		
USP Stock No.	DF-L / SP Design Load			
	Download			
	100%	115%	125%	
SWH312	3305	3305	3305	3305
SWH314	3305	3305	3305	3305
SWH316	3305	3305	3305	3305
SWH412	3305	3305	3305	3305
SWH414	3305	3305	3305	3305
SWH416	3305	3305	3305	3305
SWH26-2	3305	3305	3305	3305
SWH28-2	3305	3305	3305	3305
SWH210-2	3305	3305	3305	3305
SWH212-2	3305	3305	3305	3305
SWH214-2	3305	3305	3305	3305
SWH216-2	3305	3305	3305	3305
SWH66	3305	3305	3305	3305
SWH68	3305	3305	3305	3305
SWH610	3305	3305	3305	3305

<b>PHM</b>		ESR-1831				
<b>PHXU</b>		ESR-2104				
<b>TFI</b>		ESR-1280				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	DF I-Joist 100%
PHXU17725	4420	4425	4425	4425	3070	--
PHM17925	3535	3330	3080	2865	2865	--
PHM1795	3535	3330	3080	2865	2865	--
PHM17118	3535	3330	3080	2865	2865	--
PHM1714	3535	3330	3080	2865	2865	--
PHM1716	3535	3330	3080	2865	2865	--
PHM2314	3570	3570	3080	2865	2865	--
PHM2316	3570	3570	3080	2865	2865	--
PHM2318	3570	3570	3080	2865	2865	--
PHM2320	3570	3570	3080	2865	2865	--
PHM2514	3570	3570	3080	2865	2865	--
PHM2516	3570	3570	3080	2865	2865	--
TFI322	3245	2920	2950	3245	2345	--
TFI324	3245	2920	2950	3245	2345	--
TFI326	3245	2920	2950	3245	2345	--
PHXU31925 *	6020	5785	6020	5285	3590	--
PHXU3195 *	6020	5785	6020	5285	3590	--

\*Not listed in ESR-2104

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**SIMPSON Strong-Tie Connectors®**

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Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	DF I-Joist 100%
WP	ESR-2615					
WPI	ESR-2615					
WP211.25-2	3635	3320	3635	3255	2600	2030
WP211.88-2	3635	3320	3635	3255	2600	2030
WPI49.25	3635	3320	3635	3255	2600	2030
WPI49.5	3635	3320	3635	3255	2600	2030
WPI411.25	3635	3320	3635	3255	2600	2030
WPI411.88	3635	3320	3635	3255	2600	2030
WPI414	3635	3320	3650	3255	2600	2030
WPI416	3635	3320	3650	3255	2600	2030
WPI418	3635	3320	3650	3255	2600	2030
WPI420	3635	3320	3650	3255	2600	2030
WPI422	3635	3320	3650	3255	2600	2030
WPI424	3635	3320	3650	3255	2600	2030
WPI426	3635	3320	3650	3255	2600	2030
WPI428	3635	3320	3650	3255	2600	2030
WPI430	3635	3320	3650	3255	2600	2030
WPI432	3635	3320	3650	3255	2600	2030
WP359.5-2	3635	3320	3650	3255	2600	2030
WP3511.88-2	3635	3320	3650	3255	2600	2030
WP3514-2	3635	3320	3650	3255	2600	2030
WP3516-2	3635	3320	3650	3255	2600	2030
WP3518-2	3635	3320	3650	3255	2600	2030
WP3520-2	3635	3320	3650	3255	2600	2030
WPI39.5-2	3635	3320	3650	3255	2600	2030
WPI311.88-2	3635	3320	3650	3255	2600	2030
WPI314-2	3635	3320	3650	3255	2600	2030
WPI316-2	3635	3320	3650	3255	2600	2030
WPI318-2	3635	3320	3650	3255	2600	2030
WPI320-2	3635	3320	3650	3255	2600	2030
WPI322-2	3635	3320	3650	3255	2600	2030
WPI324-2	3635	3320	3650	3255	2600	2030
WPI326-2	3635	3320	3650	3255	2600	2030
WP5.50/9.5	3635	3320	3650	3255	2600	2030
WPI49.25-2	3635	3320	3650	3255	2600	2030
WPI49.5-2	3635	3320	3650	3255	2600	2030
WPI411.88-2	3635	3320	3650	3255	2600	2030
WPI414-2	3635	3320	3650	3255	2600	2030
WPI416-2	3635	3320	3650	3255	2600	2030

USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	DF I-Joist 100%
PHM	ESR-1831					
PHXU	ESR-2104					
THO	ESR-1781					
PHXU31112 *	6020	5785	6020	5285	3590	---
PHXU31118 *	6020	5785	6020	5285	3590	---
PHM35925	3745	3570	3080	3255	3255	---
PHM3595	3745	3570	3080	3255	3255	---
PHXU35112	6650	5785	6420	5285	3590	---
PHM35118	3745	3570	3080	3255	3255	---
PHM3514	3745	3570	3080	3255	3255	---
PHM3516	3745	3570	3080	3255	3255	---
PHM3518	3745	3570	3080	3255	3255	---
PHM3520	3745	3570	3080	3255	3255	---
PHM3522	3745	3570	3080	3255	3255	---
PHM3524	3745	3570	3080	3255	3255	---
PHM3526	3745	3570	3080	3255	3255	---
PHM3528	3745	3570	3080	3255	3255	---
PHM3530	3745	3570	3080	3255	3255	---
PHM3532	3745	3570	3080	3255	3255	---
PHM2395-2	3745	3255	2965	3255	3255	---
THO23118-2	3535	3665	3665	3665	3005	2630
THO23140-2	3535	4405	4405	4450	3265	2630
PHM2316-2	3745	3255	2965	3255	3255	---
PHM2318-2	3745	3255	2965	3255	3255	---
PHM2320-2	3745	3255	2965	3255	3255	---
PHM2595-2	3745	3255	2965	3255	3255	---
THO25118-2	3535	3665	3665	3665	3005	2630
PHM2514-2	3745	3255	2965	3255	3255	---
PHM2516-2	3745	3255	2965	3255	3255	---
PHM2518-2	3745	3255	2965	3255	3255	---
PHM2520-2	3745	3255	2965	3255	3255	---
PHM2522-2	3745	3255	2965	3255	3255	---
PHM2524-2	3745	3255	2965	3255	3255	---
PHM2526-2	3745	3255	2965	3255	3255	---
PHM5595	3745	3665	3080	3390	3390	---
PHXU71925	6650	5785	6650	5285	3590	---
PHXU7195	6650	5785	6650	5285	3590	---
PHXU71118	6650	5785	6650	5285	3590	---
PHXU7114	6650	5785	6650	5285	3590	---
PHXU7116	6650	5785	6650	5285	3590	---

\*Not listed in ESR-2104

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## SIMPSON Strong-Tie Connectors®

WPU		ESR-2615				
Simpson Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
WPU1.81/9.25	4700	4880	3650	4165	4165	775
WPU1.81/11.25	4700	4880	3650	4165	4165	775
WPU1.81/11.88	4700	4880	3650	4165	4165	775
WPU3.56/11.88	4700	4880	--	4165	4165	775
WPU3.56/14	4700	4880	--	4165	4165	775
WPU3.56/16	4700	4880	--	4165	4165	775
WPU3.56/18	4700	4880	--	4165	4165	775
WPU3.56/20	4700	4880	--	4165	4165	485
WPU3.56/22	4700	4880	--	4165	4165	485
WPU3.56/24	4700	4880	--	4165	4165	315
WPU3.56/26	4700	4880	--	4165	4165	315
WPU3.56/28	4700	4880	--	4165	4165	315

WT		No Code Listing	
Simpson Stock No.	Form Board	Wall Thickness	
WT6	2x Solid Sawn	6	
WT8	2x Solid Sawn	8	
WT10	2x Solid Sawn	10	
WT12	2x Solid Sawn	12	

Z		ESR-2606	
Simpson Stock No.	DF-L / SP Design Load		
	Download 125%		
Z2 *	465		
Z4	465		
Z28 *	--		
Z38 *	--		

\*Not listed in ESR-2606

## USP Structural Connectors®

PHXU		ESR-2104				
USP Stock No.	Design Load					
	LVL 100%	PSL 100%	LSL 100%	DF-L / SP 100%	SPF 100%	Uplift 160%
PHXU17925	4420	4425	4425	4425	3070	1035
PHXU17112	4420	4425	4425	4425	3070	1035
PHXU17118	4420	4425	4425	4425	3070	1035
PHXU35118	6650	5785	6420	5285	3590	1290
PHXU3514	6650	5785	6420	5285	3590	1290
PHXU3516	6650	5785	6420	5285	3590	1290
PHXU3518	6650	5785	6420	5285	3590	1290
PHXU3520	6650	5785	6420	5285	3590	1290
PHXU3522	6650	5785	6420	5285	3590	1290
PHXU3524	6650	5785	6420	5285	3590	1290
PHXU3526	6650	5785	6420	5285	3590	1290
PHXU3528	6650	5785	6420	5285	3590	1290

FT		No Code Listing	
USP Stock No.	Form Board	Wall Thickness	
FT6	12"	6	
FT8	12"	8	
FT10	12"	10	
FT12	12"	12	

ZC		No Code Listing	
USP Stock No.	DF-L / SP Design Load		
	Download 100%		
ZC2	490		
ZC4	420		
ZC24	--		
ZC34	--		

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Notes: \_\_\_\_\_

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