



The Joist hangers with external flanges SAE is a reference. It can be used in a lot of condition. The fixation is reliable and easy to make.



[ETA-06/0270](#)

EIGENSCHAFTEN



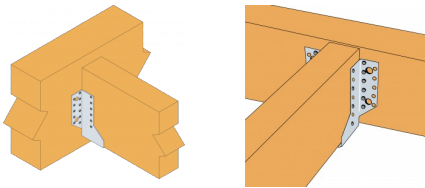
Z275

Material

- Galvanized Steel S250GD + Z275 according to EN 10346
- Thickness 2 mm

Vorteile

- Easy and quick installation
- Choice of widths according to the ranges indicated



ANWENDUNG

Anwendbare Materialien

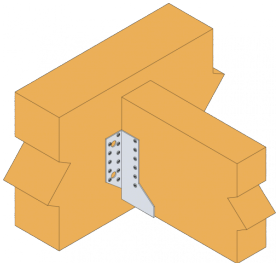
- **Header Member:** Solid timber, Composite timber, Glulam, Steel, Concrete.
- **Joist:** Solid timber, Composite timber, Glulam.

Anwendungsbereich

- Joist

TECHNISCHE DATEN

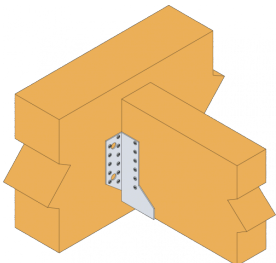
Blank model and width



Artikel	Leeres Modell [mm]	Breite [mm]	Tiefe [mm]	Fasteners on the joist CNA4.0x50 or CSA5.0x40	Fasteners on the header CNA4.0x50 or CSA5.0x40	Anchor on the header
SAE200	200	24 - 80	84	5	8	2 Ø10
SAE250	250	24 - 80	84	7	12	2 Ø10
SAEL300	300	24 - 116	84	10	18	4 Ø12
SAEL340	340	24 - 116	84	12	22	4 Ø12
SAEL380	380	24 - 156	84	12	22	4 Ø12
SAEL440	440	24 - 156	84	15	28	4 Ø12
SAEL500	500	24 - 156	84	15	34	4 Ø12

For more information on the load values according to the width of the joist hanger, contact the technical department.

Abmessungen und charakteristische Werte



Artikel	Abmessungen des Nebenträgers [mm]				Abmessungen und charakteristische Werte [mm]						Löcher im Hauptträger			Löcher im Nebenträger
	Breite		Höhe [mm]		A	B	C	D	F	t	Ø5	Ø11	Ø13	Ø5
	Min.	Max.	Min.	Max.										
SAE380/38/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/40/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/47/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/50/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/56/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/63/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/66/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/72/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE250/75/2	-	-	-	-		-	-	-	-	-	-	-	-	-
SAE380/75/2/25	-	-	-	-		-	-	-	-	-	-	-	-	-

Artikel	Abmessungen des Nebenträgers [mm]				Abmessungen und charakteristische Werte [mm]						Löcher im Hauptträger			Löcher im Nebenträger
	Breite		Höhe [mm]		A	B	C	D	F	t	Ø5	Ø11	Ø13	Ø5
	Min.	Max.	Min.	Max.										
SAE380/78/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/91/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/96/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/99/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/109/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE600/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/182/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE720	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE590	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380 - All	-	-	-	-	-	-	84	41.5	86	2	22	-	4	12
SAE500/38-100	-	-	-	-	-	-	84	41.5	86	2	34	-	6	18
SAE500/125-150	-	-	-	-	-	-	84	41.5	86	2	34	-	6	18
SAE620/38-100	-	-	-	-	-	-	84	41.5	86	2	40	-	8	22
SAE620/125-150	-	-	-	-	-	-	84	41.5	86	2	40	-	8	22
SAE200/32/2	30	32	99	126	-	84	84	41.5	86	2	8	2	-	5
SAE250/32/2	30	32	119	164	32	109	84	41.5	86	2	12	2	-	7
SAE300/32/2	30	32	149	201	-	134	84	41.5	86	2	18	-	4	10
SAE200/38/2	36	38	96	122	-	81	84	41.5	86	2	8	2	-	5
SAE250/38/2	36	38	116	159	-	106	84	41.5	86	2	12	2	-	7
SAE300/38/2	36	38	146	197	-	131	84	41.5	86	2	18	-	4	10
SAE340/38/2	36	38	166	227	-	151	84	41.5	86	2	22	-	4	12
SAE380/38	36	38	-	-	-	171	84	41.5	86	2	22	-	4	12
SAE440/38/2	36	38	216	302	38	201	84	41.5	86	2	28	-	4	15
SAE500/38	36	38	-	-	-	231	84	41.5	86	2	34	-	6	18
SAE620/38	36	38	-	-	-	291	84	41.5	86	2	40	-	8	22
SAE380/38/2	35	38	186	286	-	171	84	41.5	86	2	20	-	4	10
SAE500/38/2	35	38	246	386	-	231	84	41.5	86	2	32	-	6	16
SAE600/38/2	35	38	296	469	-	281	88	36	90	2	36	-	4	20
SAE620X	-	-	-	-	38 - 150	235 - 290	84	41.5	86	2	28	-	-	10
SAE200/40/2	38	40	95	120	-	80	84	41.5	86	2	8	2	-	5
SAE250/40/2	38	40	115	158	-	105	84	41.5	86	2	12	2	-	7
SAE300/40/2	38	40	145	195	-	130	84	41.5	86	2	18	-	4	10
SAE340/40/2	38	40	165	225	-	150	84	41.5	86	2	22	-	4	12
SAE250/40	38	40	-	-	40	105	84	41.5	86	2	12	2	-	7
SAE380/40/2	37	40	185	284	-	170	84	41.5	86	2	20	-	4	10
SAE500/40/2	37	40	245	384	-	230	84	41.5	86	2	32	-	6	16
SAE600/40/2	37	40	295	468	-	280	88	36	90	2	36	-	4	20
SAE620/44	42	45	-	-	44	288	84	41.5	86	2	40	-	8	22
SAE380/45	43	45	-	-	45	167.5	84	41.5	86	2	22	-	4	12
SAE200/46/2	44	46	92	116	-	77	84	41.5	86	2	8	2	-	5
SAE250/46/2	44	46	112	153	-	102	84	41.5	86	2	12	2	-	7
SAE340/46/2	44	46	162	221	-	147	84	41.5	86	2	22	-	4	12
SAE500/46/2	44	46	242	341	46	227	84	41.5	86	2	34	-	6	18
SAE250/46	44	46	112	153	-	102	84	41.5	86	2	12	2	-	7
SAE500/46	44	46	-	-	-	227	84	41.5	86	2	34	-	6	18
SAE200/47/2	44	47	92	128	-	76.5	88	41.5	90	2	8	2	-	5
SAE250/47/2	44	47	117	170	-	101.5	88	41.5	90	2	12	2	-	7
SAE380/47/2	44	47	182	278	47	166.5	84	41.5	86	2	20	-	4	10
SAE500/47/2	44	47	242	378	-	226.5	84	41.5	86	2	32	-	6	16
SAE600/47/2	44	47	292	462	-	276.5	88	36	90	2	36	-	4	20
SAE200/50/2	48	50	90	113	-	75	84	41.5	86	2	8	2	-	5
SAE250/50/2	48	50	110	150	50	100	84	41.5	86	2	12	2	-	7

Artikel	Abmessungen des Nebenträgers [mm]				Abmessungen und charakteristische Werte [mm]						Löcher im Hauptträger			Löcher im Nebenträger
	Breite		Höhe [mm]		A	B	C	D	F	t	Ø5	Ø11	Ø13	Ø5
	Min.	Max.	Min.	Max.										
SAE300/50/2	48	50	140	188	50	125	84	41.5	86	2	18	-	4	10
SAE340/50/2	48	50	160	218		145	84	41.5	86	2	22	-	4	12
SAE500/50/2	48	50	240	338		225	84	41.5	86	2	34	-	6	18
SAE250/50	47	50	-	-		100	84	41.5	86	2	12	2	-	7
SAE380/50	47	50	-	-		165	84	41.5	86	2	22	-	4	12
SAE500/50	47	50	-	-		225	84	41.5	86	2	34	-	6	18
SAE620/50	47	50	-	-		285	84	41.5	86	2	40	-	8	22
SAE380/50/2	47	50	180	276		165	84	41.5	86	2	20	-	4	10
SAE600/50/2	47	50	290	459		275	88	36	90	2	36	-	4	20
SAE380/56/2	53	56	177	271	56	162	84	41.5	86	2	20	-	4	10
SAE500/56/2	53	56	237	371		222	84	41.5	86	2	32	-	6	16
SAE600/56/2	53	56	287	454		272	88	36	90	2	36	-	4	20
SAE200/60/2	58	60	85	105	60	70	84	41.5	86	2	8	2	-	5
SAE250/60/2	58	60	105	143		95	84	41.5	86	2	12	2	-	7
SAE300/60/2	58	60	135	180		120	84	41.5	86	2	18	-	4	10
SAE340/60/2	58	60	155	210		140	84	41.5	86	2	22	-	4	12
SAE380/63/2	60	63	174	265	63	158.5	84	41.5	86	2	20	-	4	10
SAE500/63/2	60	63	234	365		218.5	84	41.5	86	2	32	-	6	16
SAE600/63/2	60	63	284	448		268.5	88	36	90	2	36	-	4	20
SAE200/64/2	62	64	83	102	64	68	84	41.5	86	2	8	2	-	5
SAE250/64/2	62	64	103	140		93	84	41.5	86	2	12	2	-	7
SAE300/64/2	62	64	133	177		118	84	41.5	86	2	18	-	4	10
SAE340/64/2	62	64	153	207		138	84	41.5	86	2	22	-	4	12
SAE380/64/2	62	64	173	237		158	84	41.5	86	2	22	-	4	12
SAE380/64	62	64	-	-		158	84	41.5	86	2	22	-	4	12
SAE500/64	62	64	-	-		218	84	41.5	86	2	34	-	6	18
SAE620/64	62	64	-	-		278	84	41.5	86	2	40	-	8	22
SAE380/66/2	64	66	172	236	66	157	84	41.5	86	2	22	-	4	12
SAE440/66/2	64	66	202	281		187	84	41.5	86	2	28	-	4	15
SAE380/66	64	66	-	-		157	84	41.5	86	2	22	-	4	12
SAE500/66	64	66	-	-		217	84	41.5	86	2	34	-	6	18
SAE500/66/2	63	66	232	362		217	84	41.5	86	2	32	-	6	16
SAE600/66/2	63	66	282	446		267	88	36	90	2	36	-	4	20
SAE200/70/2	68	70	80	98	70	65	84	41.5	86	2	8	2	-	5
SAE250/70/2	68	70	100	135		90	84	41.5	86	2	12	2	-	7
SAE300/70/2	68	70	130	173		115	84	41.5	86	2	18	-	4	10
SAE340/70/2	68	70	150	203		135	84	41.5	86	2	22	-	4	12
SAE380/70/2	68	70	170	233		155	84	41.5	86	2	22	-	4	12
SAE440/70/2	68	70	200	278		185	84	41.5	86	2	28	-	4	15
SAEL300/72/2	70	72	129	171	72	114	84	41.5	86	2	16	-	4	8
SAEL340/72/2	70	72	149	201		134	84	41.5	86	2	20	-	4	10
SAE380/72/2	70	72	169	231		154	84	41.5	86	2	22	-	4	12
SAE440/72/2	70	72	199	276		184	84	41.5	86	2	28	-	4	15
SAE500/72/2	69	72	229	357		214	84	41.5	86	2	32	-	6	16
SAE600/72/2	69	72	279	441		264	88	36	90	2	36	-	4	20
SAE380/75/2	72	75	168	255	75	152.5	84	41.5	86	2	20	-	4	10
SAE500/75/2	72	75	228	355		212.5	84	41.5	86	2	32	-	6	16
SAE600/75/2	72	75	278	438		262.5	88	36	90	2	36	-	4	20
SAE200/76/2	74	76	77	93	76	62	84	41.5	86	2	8	2	-	5
SAE250/76/2	74	76	97	131		87	84	41.5	86	2	12	2	-	7
SAEL300/76/2	74	76	127	168		112	84	41.5	86	2	16	-	4	8
SAEL340/76/2	74	76	147	198		132	84	41.5	86	2	20	-	4	10
SAE380/76/2	74	76	167	228		152	84	41.5	86	2	22	-	4	12
SAE440/76/2	74	76	197	273		182	84	41.5	86	2	28	-	4	15
SAE500/76/2	74	76	227	318		212	84	41.5	86	2	34	-	6	18

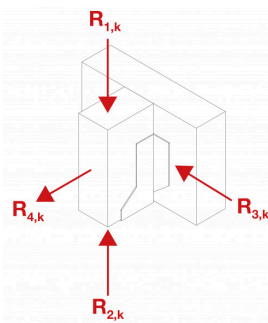
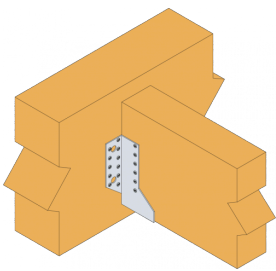
Artikel	Abmessungen des Nebenträgers [mm]				Abmessungen und charakteristische Werte [mm]						Löcher im Hauptträger			Löcher im Nebenträger
	Breite		Höhe [mm]		A	B	C	D	F	t	Ø5	Ø11	Ø13	Ø5
	Min.	Max.	Min.	Max.										
SAE250/76	74	76	-	-	78	87	84	41.5	86	2	12	2	-	7
SAE380/76	74	76	-	-		152	84	41.5	86	2	22	-	4	12
SAE500/76	74	76	-	-		212	84	41.5	86	2	34	-	6	18
SAE620/76	74	76	-	-		272	84	41.5	86	2	40	-	8	22
SAE380/78/2	75	78	166	252	78	151	84	41.5	86	2	20	-	4	10
SAE500/78/2	75	78	226	352		211	84	41.5	86	2	32	-	6	16
SAE600/78/2	75	78	276	436		261	88	36	90	2	36	-	4	20
SAE200/80/2	78	80	75	90		60	84	41.5	86	2	8	2	-	5
SAE250/80/2	78	80	95	128	80	85	84	41.5	86	2	12	2	-	7
SAEL300/80/2	78	80	125	165		110	84	41.5	86	2	16	-	4	8
SAEL340/80/2	78	80	145	195		130	84	41.5	86	2	20	-	4	10
SAE380/80/2	78	80	165	225		150	84	41.5	86	2	22	-	4	12
SAE440/80/2	78	80	195	270	80	180	84	41.5	86	2	28	-	4	15
SAE500/80/2	78	80	225	315		210	84	41.5	86	2	34	-	6	18
SAE380/90/2	88	90	160	218		145	84	41.5	86	2	22	-	4	12
SAE440/90/2	88	90	190	263		175	84	41.5	86	2	28	-	4	15
SAE500/90/2	88	90	220	308	90	205	84	41.5	86	2	34	-	6	18
SAE380/90	88	2x45	-	-		145	84	41.5	86	2	22	-	4	12
SAE500/90	88	2x45	-	-		205	84	41.5	86	2	34	-	6	18
SAE500/91	2x45	91	-	-		204.5	84	41.5	86	2	34	-	6	18
SAE620/91	2x45	91	-	-	91	264.5	84	41.5	86	2	40	-	8	22
SAE380/91/2	88	91	160	241		144.5	84	41.5	86	2	20	-	4	10
SAE500/91/2	88	91	220	342		204.5	84	41.5	86	2	32	-	6	16
SAE600/91/2	88	91	270	425		254.5	88	36	90	2	36	-	4	20
SAE380/92/2	90	92	159	216	92	144	84	41.5	86	2	22	-	4	12
SAE380/92	2x45	92	-	-		144	84	41.5	86	2	22	-	4	12
SAE440/95/2	93	95	188	259	95	172.5	84	41.5	86	2	28	-	4	15
SAE500/95/2	93	95	218	304		202.5	84	41.5	86	2	34	-	6	18
SAE380/96/2	93	96	157	237	96	142	84	41.5	86	2	20	-	4	10
SAE500/96/2	93	96	217	337		202	84	41.5	86	2	32	-	6	16
SAE600/96/2	93	96	267	421		252	88	36	90	2	36	-	4	20
SAE380/99/2	96	99	156	235	99	140.5	84	41.5	86	2	20	-	4	10
SAE500/99/2	96	99	216	335		200.5	84	41.5	86	2	32	-	6	16
SAE600/99/2	96	99	266	418		250.5	88	36	90	2	36	-	4	20
SAEL300/100/2	98	100	115	150	100	100	84	41.5	86	2	16	-	4	8
SAE380/100/2	98	100	155	210		140	84	41.5	86	2	22	-	4	12
SAE440/100/2	98	100	185	255		170	84	41.5	86	2	28	-	4	15
SAE500/100/2	98	100	215	300		200	84	41.5	86	2	34	-	6	18
SAE380/100	98	100	-	-		140	84	41.5	86	2	22	-	4	12
SAE500/100	98	100	-	-		200	84	41.5	86	2	34	-	6	18
SAE620/100	98	100	-	-		260	84	41.5	86	2	40	-	8	22
SAE380/109/2	106	109	151	226		109	135.5	84	41.5	86	2	20	-	4
SAE500/109/2	106	109	211	326	195.5		84	41.5	86	2	32	-	6	16
SAE600/109/2	106	109	261	410	245.5		88	36	90	2	36	-	4	20
SAEL500/115/2	113	115	208	289	115	192.5	84	41.5	86	2	32	-	6	16
SAE620/116	114	116	-	-	116	252	84	41.5	86	2	40	-	8	22
SAE500/118/2	115	118	206	319	118	191	84	41.5	86	2	32	-	6	16
SAE600/118/2	115	118	256	402		241	88	36	90	2	36	-	4	20
SAEL380/120/2	118	120	145	195	120	130	84	41.5	86	2	20	-	4	10
SAEL440/120/2	118	120	175	240		160	84	41.5	86	2	26	-	4	13
SAEL500/120/2	118	120	205	285		190	84	41.5	86	2	32	-	4	16
SAE500/122/2	119	122	204	316	122	189	84	41.5	86	2	32	-	6	16
SAE600/122/2	119	122	254	399		239	88	36	90	2	36	-	4	20
SAE500/125	123	125	-	-	125	187.5	84	41.5	86	2	30	-	6	16
SAE620/125	123	125	-	-		247.5	84	41.5	86	2	40	-	8	22

Artikel	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung																							
	A	Anzahl	Anzahl	Charakter. Tragfähigkeiten - Nadelholz C24 [kN]																Safe Working Load [kN]				
				R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}				R _{1,SWL}	R _{2,SWL}	R _{3,SWL}		
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	C16	C14	C16		
SAE300/50/2	18	10	14.5	17	-	-	-	-	11.3	11.3	-	-	-	3.3	3.3	-	-	5.5	5.5	-	-	-	-	-
SAE340/50/2	22	12	19.1	22.3	-	-	-	-	15.6	15.6	-	-	-	4.4	4.4	-	-	6.7	6.7	-	-	-	-	-
SAE500/50/2	34	18	33.5	36.7	-	-	33.3	35.6	30.2	30.2	-	-	12.2	6.6	6.6	-	-	10.4	10.4	-	-	13.9	14.8	6.1
SAE250/50	12	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/50	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/50	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE620/50	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/50/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE600/50/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE380/56/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/56/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/56/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE200/60/2	8	5	4.7	5.6	7.4	-	7.6	8.1	3.3	5.3	5.3	-	4.2	0.9	1.3	1.3	-	2.5	3.9	3.9	-	3.2	3.4	2.1
SAE250/60/2	12	7	7.8	9.3	12.1	-	12.7	13.5	6	9.4	9.4	-	5.9	1.5	2.1	2.1	-	3.7	5.9	5.9	-	5.3	5.6	3
SAE300/60/2	18	10	13.6	16	20.8	-	-	-	11.3	17.6	17.6	-	-	3.3	4.4	4.4	-	5.5	8.8	8.8	-	-	-	-
SAE340/60/2	22	12	18.1	21.2	27.4	-	-	-	15.6	24	24	-	-	4.4	5.9	5.9	-	6.7	10.8	10.8	-	-	-	-
SAE380/63/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/63/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/63/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE200/64/2	8	5	4.5	5.3	7	8.6	7.6	8.1	3.3	5.3	5.3	-	4.2	0.9	1.3	1.3	-	2.5	3.9	3.9	-	3.2	3.4	2.1
SAE250/64/2	12	7	7.5	8.9	11.7	14.1	12.7	13.5	6	9.4	9.4	-	5.9	1.5	2.1	2.1	-	3.7	5.9	5.9	-	5.3	5.6	3
SAE300/64/2	18	10	13.2	15.6	20.3	24.2	-	-	11.3	17.6	17.6	21.2	-	3.4	4.4	4.4	4.7	5.5	8.8	8.8	11.1	-	-	-
SAE340/64/2	22	12	17.7	20.7	26.9	31.9	-	-	15.6	24	24	28.3	-	4.5	5.9	5.9	6.3	6.7	10.8	10.8	13.5	-	-	-
SAE380/64/2	22	12	21.5	24.9	31	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE380/64	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/64	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE620/64	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/66/2	22	12	21.3	24.7	31	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/66/2	28	15	28.5	31.2	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.5	7.2	7.2	7.7	8.6	13.7	13.7	17.2	-	-	-
SAE380/66	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/66	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/66/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/66/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE200/70/2	8	5	4.1	4.9	6.5	7.9	7.6	8.1	3.3	5.3	5.3	-	4.2	0.9	1.3	1.3	-	2.5	3.9	3.9	-	3.2	3.4	2.1
SAE250/70/2	12	7	7.1	8.4	11	13.4	12.7	13.5	6	9.4	9.4	-	5.9	1.5	2.1	2.1	-	3.7	5.9	5.9	-	5.3	5.6	3
SAE300/70/2	18	10	12.7	14.9	19.5	23.4	-	-	11.3	17.6	17.6	21.2	-	3.4	4.4	4.4	4.7	5.5	8.8	8.8	11.1	-	-	-
SAE340/70/2	22	12	17.1	20	26	31	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.9	5.9	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE380/70/2	22	12	21	24.3	31	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/70/2	28	15	28.5	31.2	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.5	7.2	7.2	7.7	8.6	13.7	13.7	17.2	-	-	-
SAEL300/72/2	16	8	12.4	14.5	18.9	22.5	-	-	9.4	14.6	14.6	17.8	-	2.6	3.4	3.4	3.6	4.9	7.8	7.8	9.8	-	-	-
SAEL340/72/2	20	10	16.7	19.5	25.3	28.3	-	-	13.4	20.7	20.7	23.6	-	3.6	4.8	4.8	5.1	6.1	9.8	9.8	12.3	-	-	-
SAE380/72/2	22	12	20.8	24.2	31	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/72/2	28	15	28.5	31.2	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.5	7.3	7.3	7.7	8.6	13.7	13.7	17.2	-	-	-
SAE500/72/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/72/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE380/75/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/75/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/75/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE200/76/2	8	5	3.8	4.5	5.9	7.3	7.6	8.1	3.3	5.3	5.3	-	4.2	0.9	1.4	1.4	-	2.5	3.9	3.9	-	3.2	3.4	2.1
SAE250/76/2	12	7	6.6	7.9	10.3	12.6	12.7	13.5	6	9.4	9.4	-	5.9	1.5	2.1	2.1	-	3.7	5.9	5.9	-	5.3	5.6	3
SAEL300/76/2	16	8	12	14.1	18.4	22	-	-	9.4	14.6	14.6	17.8	-	2.6	3.4	3.4	3.7	4.9	7.8	7.8	9.8	-	-	-
SAEL340/76/2	20	10	16.3	19.1	24.7	28.3	-	-	13.4	20.7	20.7	23.6	-	3.6	4.8	4.8	5.1	6.1	9.8	9.8	12.3	-	-	-

Artikel	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung																							
	A	Anzahl	Nagel	Charakter. Tragfähigkeiten - Nadelholz C24 [kN]																Safe Working Load [kN]				
				R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}				R _{1,SWL}	R _{2,SWL}	R _{3,SWL}	R _{4,SWL}	
				C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16	C16
SAE380/76/2	22	12	20.4	23.8	30.5	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/76/2	28	15	28.1	31.2	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.5	7.3	7.3	7.7	8.6	13.7	13.7	17.2	-	-	-
SAE500/76/2	34	18	33.5	36.7	44.3	47.2	33.3	35.6	30.2	39.9	39.9	-	12.2	6.6	9.5	9.5	-	10.4	16.7	16.7	-	13.9	14.8	6.1
SAE250/76	12	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/76	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/76	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE620/76	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/78/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/78/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/78/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE200/80/2	8	5	3.5	4.2	5.6	6.9	7.6	8.1	3.3	5.3	5.3	-	4.2	0.9	1.4	1.4	-	2.5	3.9	3.9	-	3.2	3.4	2.1
SAE250/80/2	12	7	6.3	7.5	9.9	12.1	12.7	13.5	6	9.4	9.4	-	5.9	1.5	2.1	2.1	-	3.7	5.9	5.9	-	5.3	5.6	3
SAEL300/80/2	16	8	11.7	13.8	17.9	21.4	-	-	9.4	14.6	14.6	17.8	-	2.6	3.4	3.4	3.7	4.9	7.8	7.8	9.8	-	-	-
SAEL340/80/2	20	10	15.9	18.7	24.2	28.3	-	-	13.4	20.7	20.7	23.6	-	3.6	4.8	4.8	5.1	6.1	9.8	9.8	12.3	-	-	-
SAE380/80/2	22	12	20	23.3	30	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.1	5.1	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/80/2	28	15	27.7	31.2	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.5	7.3	7.3	7.8	8.6	13.7	13.7	17.2	-	-	-
SAE500/80/2	34	18	33.5	36.7	44.3	47.2	33.3	35.6	30.2	39.9	39.9	-	12.2	6.6	9.5	9.5	-	10.4	16.7	16.7	-	13.9	14.8	6.1
SAE380/90/2	22	12	19.1	22.3	28.8	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.2	5.2	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/90/2	28	15	26.7	31.1	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.6	7.3	7.3	7.8	8.6	13.7	13.7	17.2	-	-	-
SAE500/90/2	34	18	33.5	36.7	44.3	47.2	33.3	35.6	30.2	39.9	39.9	-	12.2	6.6	9.6	9.6	-	10.4	16.7	16.7	-	13.9	14.8	6.1
SAE380/90	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/90	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/91	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE620/91	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/91/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/91/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/91/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE380/92/2	22	12	18.9	22.1	28.5	33	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.2	5.2	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE380/92	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE440/95/2	28	15	26.2	30.5	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.6	7.4	7.4	7.8	8.6	13.7	13.7	17.2	-	-	-
SAE500/95/2	34	18	33.5	36.7	44.3	47.2	33.3	35.6	30.2	39.9	39.9	-	12.2	6.6	9.6	9.6	-	10.4	16.7	16.7	-	13.9	14.8	6.1
SAE380/96/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/96/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/96/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAE380/99/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/99/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/99/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAEL300/100/2	16	8	9.9	11.7	15.3	18.6	-	-	9.4	14.6	14.6	17.8	-	2.6	3.5	3.5	3.7	4.9	7.8	7.8	9.8	-	-	-
SAE380/100/2	22	12	18.1	21.2	27.4	32.5	18.2	19.4	15.6	24	24	28.3	8.5	3.8	5.2	5.2	5.4	6.7	10.8	10.8	13.5	7.6	8.1	4.2
SAE440/100/2	28	15	25.7	29.9	37.7	40.1	-	-	22.9	33.2	33.2	35.4	-	5.6	7.4	7.4	7.9	8.6	13.7	13.7	17.2	-	-	-
SAE500/100/2	34	18	33.5	36.7	44.3	47.2	33.3	35.6	30.2	39.9	39.9	-	12.2	6.6	9.6	9.6	-	10.4	16.7	16.7	-	13.9	14.8	6.1
SAE380/100	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/100	34	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE620/100	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/109/2	20	10	-	-	-	-	18.2	19.4	15.6	18.4	24	28.3	8.5	3.8	4.2	5.1	5.4	6.7	8.1	10.8	13.5	7.6	8.1	4.2
SAE500/109/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/109/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAEL500/115/2	32	16	30.2	33	39.9	42.5	33.3	35.6	26.8	35.5	35.5	-	12.2	6.6	8.5	8.5	-	10.4	15.7	15.7	-	13.9	14.8	6.1
SAE620/116	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE500/118/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1
SAE600/118/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4
SAEL380/120/2	20	10	15.9	18.7	24.2	28.3	18.2	19.4	13.4	20.7	20.7	28.3	8.5	3.8	4.2	4.2	5.4	6.7	9.8	9.8	13.5	7.6	8.1	4.2

Artikel	A	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung																				Safe Working Load [kN]										
		Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24 [kN]																	R _{1,k}			R _{2,k}			R _{3,k}			R _{4,k}		
		Anzahl	Anzahl	R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}				R _{1,k}	R _{2,k}	R _{3,k}										
				CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0				CNA4,0	CNA4,0								
SAEL440/120/2	26	13	23.1	27	33.2	35.4	-	-	20.4	28.8	28.8	30.7	-	4.7	6.3	6.3	6.7	8	12.7	12.7	16	-	-	-								
SAEL500/120/2	32	16	30.2	33	39.9	42.5	33.3	35.6	26.8	35.5	35.5	-	12.2	6.6	8.5	8.5	-	10.4	15.7	15.7	-	13.9	14.8	6.1								
SAE500/122/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/122/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE500/125	30	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
SAE620/125	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
SAE500/125/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/125/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE500/128/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/128/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAEL440/136/2	136	26	13	21.4	25.1	32.5	35.4	-	-	20.4	28.8	28.8	30.7	-	4.8	6.3	6.3	6.7	8	12.7	12.7	16	-	-	-							
SAEL500/140/2	140	32	16	29	33	39.9	42.5	33.3	35.6	26.8	35.5	35.5	-	12.2	6.6	8.5	8.5	-	10.4	15.7	15.7	-	13.9	14.8	6.1							
SAE500/142/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/142/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE500/146/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/146/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAEL500/150/2	32	16	27.8	32.4	39.9	42.5	33.3	35.6	26.8	35.5	35.5	-	12.2	6.6	8.5	8.5	-	10.4	15.7	15.7	-	13.9	14.8	6.1								
SAEL500/150	30	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
SAE620/150	40	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
SAE500/150/2	32	16	-	-	-	-	33.3	35.6	30.2	33	-	-	12.2	6.6	7.4	-	-	10.4	12.5	-	-	13.9	14.8	6.1								
SAE600/150/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE600/182/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE720/182/2	38	20	-	-	-	-	44.6	47.6	-	-	-	-	16.7	-	-	-	-	-	-	-	-	18.6	19.8	8.4								
SAE600/196/2	36	20	-	-	-	-	42.2	45.1	-	-	-	-	15.9	-	-	-	-	-	-	-	-	17.6	18.8	8.4								
SAE720/196/2	38	20	-	-	-	-	44.6	47.6	-	-	-	-	16.7	-	-	-	-	-	-	-	-	18.6	19.8	8.4								
SAE590/200	30	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
SAE590/200/2	30	20	-	-	-	-	29.4	31.4	-	-	-	-	16.7	-	-	-	-	-	-	-	-	12.3	13.1	8.4								

Tragfähigkeiten - Balken an Balken - Teilausnagelung



Artikel	A	Charakter. Werte - Holz an Holz - Teilausnagelung																						
		Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24 [kN]																				
		Anzahl	Anzahl	R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}								
				CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0	CNA4,0					
SAE200/32/2	32	4	4	3.7	-	-	-	1.8	-	-	-	-	0.4	-	-	-	-	1.2	-	-	-	-	-	-
SAE250/32/2	32	6	4	5.8	-	-	-	2.5	-	-	-	-	0.8	-	-	-	-	1.8	-	-	-	-	-	-
SAE300/32/2	32	10	6	9.1	-	-	-	6.5	-	-	-	-	1.1	-	-	-	-	3.1	-	-	-	-	-	-
SAE200/38/2	38	4	4	3.5	-	-	-	1.8	-	-	-	-	0.5	-	-	-	-	1.2	-	-	-	-	-	-
SAE250/38/2	38	6	4	5.6	-	-	-	2.5	-	-	-	-	0.8	-	-	-	-	1.8	-	-	-	-	-	-

Artikel	A	Charakter. Werte - Holz an Holz - Teilausnagelung																	
		Verbindungsmitte		Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
		Lufttrag	Beitrag	R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
Anzahl	Anzahl	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	NA4,0	
SAE300/38/2	38	10	6	8.8	-	-	-	6.5	-	-	-	1.1	-	-	-	3.1	-	-	-
SAE340/38/2	38	12	6	11.9	-	-	-	8.7	-	-	-	1.8	-	-	-	3.7	-	-	-
SAE380/38/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE440/38/2	38	14	8	16.8	-	-	-	11	-	-	-	1.9	-	-	-	4.3	-	-	-
SAE200/40/2	40	4	4	3.5	-	-	-	1.8	-	-	-	0.5	-	-	-	1.2	-	-	-
SAE250/40/2	40	6	4	5.6	-	-	-	2.5	-	-	-	0.8	-	-	-	1.8	-	-	-
SAE300/40/2	40	10	6	8.7	-	-	-	6.5	-	-	-	1.1	-	-	-	3.1	-	-	-
SAE340/40/2	40	12	6	11.8	-	-	-	8.7	-	-	-	1.9	-	-	-	3.7	-	-	-
SAE200/46/2	46	4	4	3.3	3.9	-	-	1.8	2.1	-	-	0.5	0.5	-	-	1.2	1.5	-	-
SAE250/46/2	46	6	4	5.4	6.3	-	-	2.5	2.9	-	-	0.8	0.9	-	-	1.8	2.2	-	-
SAE340/46/2	46	12	6	11.5	13.4	-	-	8.7	10.3	-	-	2.1	2.3	-	-	3.7	4.4	-	-
SAE500/46/2	46	18	10	20.1	22	-	-	16.8	18.4	-	-	2.3	2.6	-	-	5.5	6.6	-	-
SAE200/50/2	50	4	4	3.2	3.8	-	-	1.8	2.1	-	-	0.5	0.5	-	-	1.2	1.5	-	-
SAE250/50/2	50	6	4	5.2	6.1	-	-	2.5	2.9	-	-	0.8	0.9	-	-	1.8	2.2	-	-
SAE300/50/2	50	10	6	8.2	9.6	-	-	6.5	7.6	-	-	1.1	1.3	-	-	3.1	3.7	-	-
SAE340/50/2	50	12	6	11.3	13.1	-	-	8.7	10.3	-	-	2.2	2.5	-	-	3.7	4.4	-	-
SAE500/50/2	50	18	10	20.1	22	-	-	16.8	18.4	-	-	2.5	2.8	-	-	5.5	6.6	-	-
SAE200/60/2	60	4	4	2.9	3.5	4.5	-	1.8	2.1	2.8	-	0.5	0.5	0.7	-	1.2	1.5	2	-
SAE250/60/2	60	6	4	4.9	5.7	7.4	-	2.5	2.9	3.9	-	0.8	0.9	1.1	-	1.8	2.2	2.9	-
SAE300/60/2	60	10	6	7.7	9	11.7	-	6.5	7.6	10	-	1.2	1.3	1.5	-	3.1	3.7	4.9	-
SAE340/60/2	60	12	6	10.8	12.6	16.2	-	8.7	10.3	13.3	-	2.5	2.8	3.6	-	3.7	4.4	5.9	-
SAE200/64/2	64	4	4	2.8	3.3	4.3	5.2	1.8	2.1	2.8	3.4	0.5	0.6	0.7	0.7	1.2	1.5	2	2.5
SAE250/64/2	64	6	4	4.7	5.5	7.2	8.5	2.5	2.9	3.9	4.8	0.8	0.9	1.1	1.1	1.8	2.2	2.9	3.7
SAE300/64/2	64	10	6	7.4	8.7	11.4	13.6	6.5	7.6	10	12.1	1.2	1.3	1.5	1.6	3.1	3.7	4.9	6.2
SAE340/64/2	64	12	6	10.5	12.3	15.9	18.7	8.7	10.3	13.3	14.2	2.6	2.9	3.7	3.9	3.7	4.4	5.9	7.4
SAE380/64/2	64	12	6	12.6	14.5	17.7	18.9	8.7	10.3	13.3	14.2	2.4	2.6	3.2	3.4	3.7	4.4	5.9	7.4
SAE380/66/2	66	12	6	12.5	14.4	17.7	18.9	8.7	10.3	13.3	14.2	2.4	2.6	3.2	3.4	3.7	4.4	5.9	7.4
SAE440/66/2	66	14	8	15.9	18.2	22.2	23.6	11	12.9	16.8	18.9	2.8	3.1	3.7	3.9	4.3	5.1	6.9	8.6
SAE200/70/2	70	4	4	2.6	3.1	4.1	4.9	1.8	2.1	2.8	3.4	0.5	0.6	0.7	0.7	1.2	1.5	2	2.5
SAE250/70/2	70	6	4	4.5	5.3	6.9	8.2	2.5	2.9	3.9	4.8	0.8	0.9	1.1	1.1	1.8	2.2	2.9	3.7
SAE300/70/2	70	10	6	7.1	8.3	10.9	13.1	6.5	7.6	10	12.1	1.2	1.3	1.5	1.6	3.1	3.7	4.9	6.2
SAE340/70/2	70	12	6	10.2	11.9	15.4	18.2	8.7	10.3	13.3	14.2	2.7	3.1	3.7	3.9	3.7	4.4	5.9	7.4
SAE380/70/2	70	12	6	12.3	14.2	17.7	18.9	8.7	10.3	13.3	14.2	2.4	2.7	3.2	3.4	3.7	4.4	5.9	7.4
SAE440/70/2	70	14	8	15.7	18	22.2	23.6	11	12.9	16.8	18.9	2.8	3.1	3.7	4	4.3	5.1	6.9	8.6
SAEL300/72/2	72	8	4	7.5	8.7	11.2	13	4.6	5.4	7.1	8.6	1.3	1.5	1.8	1.9	2.5	2.9	3.9	4.9
SAEL340/72/2	72	10	6	9.5	11.1	14.2	16.5	6.4	7.6	10	12	1.9	2.1	2.5	2.6	3.1	3.7	4.9	6.2
SAE380/72/2	72	12	6	12.2	14.1	17.7	18.9	8.7	10.3	13.3	14.2	2.4	2.7	3.2	3.4	3.7	4.4	5.9	7.4
SAE440/72/2	72	14	8	15.6	17.9	22.2	23.6	11	12.9	16.8	18.9	2.8	3.1	3.7	4	4.3	5.1	6.9	8.6
SAE200/76/2	76	4	4	2.5	2.9	3.8	4.6	1.8	2.1	2.8	3.4	0.5	0.6	0.7	0.8	1.2	1.5	2	2.5
SAE250/76/2	76	6	4	4.2	5	6.5	7.8	2.5	2.9	3.9	4.8	0.8	0.9	1.1	1.1	1.8	2.2	2.9	3.7
SAEL300/76/2	76	8	4	7.3	8.5	10.9	12.8	4.6	5.4	7.1	8.6	1.3	1.5	1.8	1.9	2.5	2.9	3.9	4.9
SAEL340/76/2	76	10	6	9.3	10.9	14	16.3	6.4	7.6	10	12	1.9	2.1	2.5	2.6	3.1	3.7	4.9	6.2
SAE380/76/2	76	12	6	12	13.9	17.7	18.9	8.7	10.3	13.3	14.2	2.4	2.7	3.2	3.4	3.7	4.4	5.9	7.4
SAE440/76/2	76	14	8	15.4	17.7	22.2	23.6	11	12.9	16.8	18.9	2.8	3.1	3.7	4	4.3	5.1	6.9	8.6
SAE500/76/2	76	18	10	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	3.2	3.6	4.3	4.6	5.5	6.6	8.8	11.1
SAE200/80/2	80	4	4	2.3	2.8	3.6	4.4	1.8	2.1	2.8	3.4	0.6	0.6	0.7	0.8	1.2	1.5	2	2.5
SAE250/80/2	80	6	4	4.1	4.8	6.3	7.6	2.5	2.9	3.9	4.8	0.8	0.9	1.1	1.2	1.8	2.2	2.9	3.7
SAEL300/80/2	80	8	4	7.1	8.3	10.7	12.6	4.6	5.4	7.1	8.6	1.4	1.5	1.8	1.9	2.5	2.9	3.9	4.9
SAEL340/80/2	80	10	6	9.1	10.7	13.7	16.1	6.4	7.6	10	12	1.9	2.1	2.5	2.7	3.1	3.7	4.9	6.2
SAE380/80/2	80	12	6	11.8	13.7	17.5	18.9	8.7	10.3	13.3	14.2	2.4	2.7	3.2	3.4	3.7	4.4	5.9	7.4
SAE440/80/2	80	14	8	15.2	17.5	22.2	23.6	11	12.9	16.8	18.9	2.8	3.1	3.8	4	4.3	5.1	6.9	8.6
SAE500/80/2	80	18	10	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	3.3	3.6	4.3	4.6	5.5	6.6	8.8	11.1
SAE380/90/2	90	12	6	11.3	13.1	16.9	18.9	8.7	10.3	13.3	14.2	2.5	2.7	3.2	3.5	3.7	4.4	5.9	7.4
SAE440/90/2	90	14	8	14.8	17	21.7	23.6	11	12.9	16.8	18.9	2.9	3.1	3.8	4	4.3	5.1	6.9	8.6
SAE500/90/2	90	18	10	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	3.3	3.6	4.3	4.6	5.5	6.6	8.8	11.1

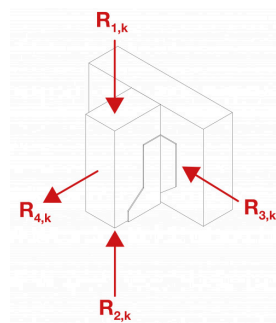
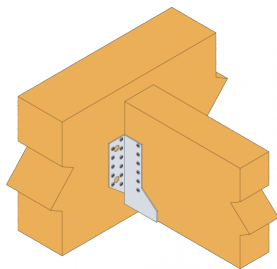
Artikel	A	Charakter. Werte - Holz an Holz - Teilausnagelung																		
		Verbindungsmittel Haupttragbe- Anzahl	Anzahl	Charakter. Tragfähigkeiten - Nadelholz C24 [kN]																
				R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}				
SAE380/92/2	92	12	6	11.2	13	16.7	18.9	8.7	10.3	13.3	14.2	2.5	2.7	3.3	3.5	3.7	4.4	5.9	7.4	
SAE440/95/2	95	14	8	14.5	16.8	21.4	23.6	11	12.9	16.8	18.9	2.9	3.1	3.8	4	4.3	5.1	6.9	8.6	
SAE500/95/2	95	18	10	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	3.3	3.6	4.4	4.6	5.5	6.6	8.8	11.1	
SAEL300/100/2	100	8	4	6.2	7.3	9.5	11.3	4.6	5.4	7.1	8.6	1.4	1.5	1.8	1.9	2.5	2.9	3.9	4.9	
SAE380/100/2	100	12	6	10.8	12.6	16.2	18.9	8.7	10.3	13.3	14.2	2.5	2.7	3.3	3.5	3.7	4.4	5.9	7.4	
SAE440/100/2	100	14	8	14.2	16.5	21.1	23.6	11	12.9	16.8	18.9	2.9	3.1	3.8	4	4.3	5.1	6.9	8.6	
SAE500/100/2	100	18	10	20	22	26.6	28.3	16.8	18.4	22.2	23.6	3.3	3.6	4.4	4.7	5.5	6.6	8.8	11.1	
SAEL500/115/2	115	16	8	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	3.3	3.6	4.4	4.6	4.9	5.9	7.8	9.8	
SAEL380/120/2	120	10	6	9.1	10.7	13.7	16.1	6.4	7.6	10	12	1.6	1.8	2.2	2.3	3.1	3.7	4.9	6.2	
SAEL440/120/2	120	12	8	12.4	14.3	18.3	21.1	11.1	13	16.7	18.9	2	2.2	2.7	2.9	3.7	4.4	5.9	7.4	
SAEL500/120/2	120	16	8	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	3.3	3.6	4.4	4.6	4.9	5.9	7.8	9.8	
SAEL440/136/2	136	12	8	11.7	13.5	17.3	20.2	11.1	13	16.7	18.9	2.1	2.2	2.7	2.9	3.7	4.4	5.9	7.4	
SAEL500/140/2	140	16	8	16.1	18.4	22.2	23.6	13.4	14.7	17.7	18.9	3.3	3.6	4.4	4.7	4.9	5.9	7.8	9.8	
SAEL500/150/2	150	16	8	15.5	18	22.2	23.6	13.4	14.7	17.7	18.9	3.3	3.6	4.4	4.7	4.9	5.9	7.8	9.8	
SAE500/38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/46	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/45	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/46	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/44	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/64	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/64	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/64	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/66	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/66	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/90	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/92	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/90	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/91	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/91	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/116	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/125	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/125	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAEL500/150	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/150	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE590/200	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380 - All	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/38-100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/125-150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/38-100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/125-150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Artikel	A	Charakter. Werte - Holz an Holz - Teilausnagelung																	
		Verbindungsmittel Haupttragbeinträchtigung	Anzahl	Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
				R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
SAE500/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/40/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE200/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/47/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50/2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/50/2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/56/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/63/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/66/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/66/2	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/66/2	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/72/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/72/2	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/72/2	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/75/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/75/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/78/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/91/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/96/2	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/96/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/96/2	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/96/2	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/99/2	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/99/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/99/2	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/99/2	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/109/2	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/109/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/109/2	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/109/2	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/118/2	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/118/2	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Artikel	A	Charakter. Werte - Holz an Holz - Teilausnagelung																	
		Verbindungsmit-		Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
		Art	Träger	R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
Anzahl	Anzahl	ØNA4,0x50	ØNA4,0x60	ØNA4,0x80	ØNA4,0x100	ØNA4,0x120	ØNA4,0x140	ØNA4,0x160	ØNA4,0x180	ØNA4,0x200	ØNA4,0x220	ØNA4,0x240	ØNA4,0x260	ØNA4,0x280	ØNA4,0x300	ØNA4,0x320	ØNA4,0x350		
SAE500/122/2	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/122/2	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/125/2	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/125/2	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/128/2	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/128/2	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/142/2	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/142/2	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/146/2	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/146/2	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/150/2	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/150/2	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/182/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/182/2	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE720/182/2	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/196/2	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE720/196/2	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE590/200/2	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250X	40-76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380X	38 - 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE690X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE720X	40-182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Values given in the table above are valid for a joist to joist and joist to column application, subject to respecting the partial nailing plans specific to each configuration given in our ETA-06/0270 page 17.

Product capacities - Timber to timber - Bolts



Artikel	A	Safe Working load - Timber to timber - Bolt connection					
		Verbindungsmittel				Safe Working Load - Timber C16 [kN]	
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}	R _{1,SWL,mittlere}
		Anzahl	Typ	Anzahl	Typ		
SAE200/32/2	32	-	-	-	-	-	-
SAE250/32/2	32	-	-	-	-	-	-
SAE300/32/2	32	-	-	-	-	-	-
SAE200/38/2	38	-	-	-	-	-	-
SAE250/38/2	38	-	-	-	-	-	-
SAE300/38/2	38	-	-	-	-	-	-
SAE340/38/2	38	-	-	-	-	-	-
SAE380/38/2/25	-	-	-	-	-	-	-
SAE380/38	38	-	-	-	-	-	-
SAE440/38/2	38	-	-	-	-	-	-
SAE200/40/2	40	-	-	-	-	-	-
SAE250/40/2	40	-	-	-	-	-	-
SAE300/40/2	40	-	-	-	-	-	-
SAE340/40/2	40	-	-	-	-	-	-
SAE200/46/2	46	-	-	-	-	-	-
SAE250/46/2	46	-	-	-	-	-	-
SAE340/46/2	46	-	-	-	-	-	-
SAE500/46/2	46	-	-	-	-	-	-
SAE200/50/2	50	-	-	-	-	-	-
SAE250/50/2	50	-	-	-	-	-	-
SAE300/50/2	50	-	-	-	-	-	-
SAE340/50/2	50	-	-	-	-	-	-
SAE500/50/2	50	-	-	-	-	-	-
SAE200/60/2	60	-	-	-	-	-	-
SAE250/60/2	60	-	-	-	-	-	-
SAE300/60/2	60	-	-	-	-	-	-
SAE340/60/2	60	-	-	-	-	-	-
SAE200/64/2	64	-	-	-	-	-	-
SAE250/64/2	64	-	-	-	-	-	-
SAE300/64/2	64	-	-	-	-	-	-
SAE340/64/2	64	-	-	-	-	-	-
SAE380/64/2	64	-	-	-	-	-	-
SAE380/66/2	66	-	-	-	-	-	-
SAE440/66/2	66	-	-	-	-	-	-
SAE200/70/2	70	-	-	-	-	-	-
SAE250/70/2	70	-	-	-	-	-	-
SAE300/70/2	70	-	-	-	-	-	-
SAE340/70/2	70	-	-	-	-	-	-
SAE380/70/2	70	-	-	-	-	-	-
SAE440/70/2	70	-	-	-	-	-	-
SAEL300/72/2	72	-	-	-	-	-	-
SAEL340/72/2	72	-	-	-	-	-	-
SAE380/72/2	72	-	-	-	-	-	-
SAE440/72/2	72	-	-	-	-	-	-
SAE200/76/2	76	-	-	-	-	-	-
SAE250/76/2	76	-	-	-	-	-	-
SAEL300/76/2	76	-	-	-	-	-	-
SAEL340/76/2	76	-	-	-	-	-	-
SAE380/76/2	76	-	-	-	-	-	-
SAE440/76/2	76	-	-	-	-	-	-
SAE500/76/2	76	-	-	-	-	-	-
SAE200/80/2	80	-	-	-	-	-	-
SAE250/80/2	80	-	-	-	-	-	-
SAEL300/80/2	80	-	-	-	-	-	-
SAEL340/80/2	80	-	-	-	-	-	-

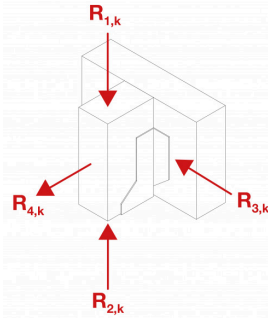
Artikel	A	Safe Working load - Timber to timber - Bolt connection					
		Verbindungsmittel				Safe Working Load - Timber C16 [kN]	
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}	R _{1,SWL,mittlere}
		Anzahl	Typ	Anzahl	Typ		
SAE380/80/2	80	-	-	-	-	-	-
SAE440/80/2	80	-	-	-	-	-	-
SAE500/80/2	80	-	-	-	-	-	-
SAE380/90/2	90	-	-	-	-	-	-
SAE440/90/2	90	-	-	-	-	-	-
SAE500/90/2	90	-	-	-	-	-	-
SAE380/92/2	92	-	-	-	-	-	-
SAE440/95/2	95	-	-	-	-	-	-
SAE500/95/2	95	-	-	-	-	-	-
SAEL300/100/2	100	-	-	-	-	-	-
SAE380/100/2	100	-	-	-	-	-	-
SAE440/100/2	100	-	-	-	-	-	-
SAE500/100/2	100	-	-	-	-	-	-
SAEL500/115/2	115	-	-	-	-	-	-
SAEL380/120/2	120	-	-	-	-	-	-
SAEL440/120/2	120	-	-	-	-	-	-
SAEL500/120/2	120	-	-	-	-	-	-
SAEL440/136/2	136	-	-	-	-	-	-
SAEL500/140/2	140	-	-	-	-	-	-
SAEL500/150/2	150	-	-	-	-	-	-
SAE200	-	-	-	-	-	-	-
SAE250	-	-	-	-	-	-	-
SAE300	-	-	-	-	-	-	-
SAEL300	-	-	-	-	-	-	-
SAE340	-	-	-	-	-	-	-
SAEL340	-	-	-	-	-	-	-
SAE380	-	-	-	-	-	-	-
SAEL380	-	-	-	-	-	-	-
SAE440	-	-	-	-	-	-	-
SAEL440	-	-	-	-	-	-	-
SAE500	-	-	-	-	-	-	-
SAEL500	-	-	-	-	-	-	-
SAE500/38	38	-	-	-	-	-	-
SAE620/38	38	-	-	-	-	-	-
SAE250/40	40	-	-	-	-	-	-
SAE250/46	46	-	-	-	-	-	-
SAE380/45	45	-	-	-	-	-	-
SAE500/46	46	-	-	-	-	-	-
SAE620/44	44	-	-	-	-	-	-
SAE250/50	50	-	-	-	-	-	-
SAE380/50	50	-	-	-	-	-	-
SAE500/50	50	-	-	-	-	-	-
SAE620/50	50	-	-	-	-	-	-
SAE380/64	64	-	-	-	-	-	-
SAE500/64	64	-	-	-	-	-	-
SAE620/64	64	-	-	-	-	-	-
SAE380/66	66	-	-	-	-	-	-
SAE500/66	66	-	-	-	-	-	-
SAE250/76	76	-	-	-	-	-	-
SAE380/76	76	-	-	-	-	-	-
SAE500/76	76	-	-	-	-	-	-
SAE620/76	76	-	-	-	-	-	-
SAE380/90	90	-	-	-	-	-	-
SAE380/92	92	-	-	-	-	-	-
SAE500/90	90	-	-	-	-	-	-

Artikel	A	Safe Working load - Timber to timber - Bolt connection					
		Verbindungsmittel				Safe Working Load - Timber C16 [kN]	
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}	R _{1,SWL,mittlere}
Anzahl	Typ	Anzahl	Typ				
SAE500/91	91	-	-	-	-	-	-
SAE620/91	91	-	-	-	-	-	-
SAE380/100	100	-	-	-	-	-	-
SAE500/100	100	-	-	-	-	-	-
SAE620/100	100	-	-	-	-	-	-
SAE620/116	116	-	-	-	-	-	-
SAE500/125	125	-	-	-	-	-	-
SAE620/125	125	-	-	-	-	-	-
SAEL500/150	150	-	-	-	-	-	-
SAE620/150	150	-	-	-	-	-	-
SAE590/200	200	-	-	-	-	-	-
SAE380 - All	-	4	Ø12	12	N3.75x30	6.95	7.94
SAE500/38-100	-	6	Ø12	18	N3.75x30	10.1	11.54
SAE500/125-150	-	6	Ø12	18	N3.75x30	7.99	9.13
SAE620/38-100	-	8	Ø12	22	N3.75x30	13.03	14.89
SAE620/125-150	-	8	Ø12	22	N3.75x30	10.86	12.41
SAE620X	38 - 150	-	-	-	-	-	-
SAE380/38/2	38	-	-	-	-	-	-
SAE500/38/2	38	-	-	-	-	-	-
SAE600/38/2	38	-	-	-	-	-	-
SAE380/40/2	40	-	-	-	-	-	-
SAE380/40/2/25	-	-	-	-	-	-	-
SAE500/40/2	40	-	-	-	-	-	-
SAE600/40/2	40	-	-	-	-	-	-
SAE200/47/2	47	-	-	-	-	-	-
SAE250/47/2	47	-	-	-	-	-	-
SAE380/47/2	47	-	-	-	-	-	-
SAE380/47/2/25	-	-	-	-	-	-	-
SAE500/47/2	47	-	-	-	-	-	-
SAE600/47/2	47	-	-	-	-	-	-
SAE380/50/2	50	-	-	-	-	-	-
SAE380/50/2/25	-	-	-	-	-	-	-
SAE600/50/2	50	-	-	-	-	-	-
SAE380/56/2	56	-	-	-	-	-	-
SAE380/56/2/25	-	-	-	-	-	-	-
SAE500/56/2	56	-	-	-	-	-	-
SAE600/56/2	56	-	-	-	-	-	-
SAE380/63/2/25	-	-	-	-	-	-	-
SAE380/63/2	63	-	-	-	-	-	-
SAE500/63/2	63	-	-	-	-	-	-
SAE600/63/2	63	-	-	-	-	-	-
SAE380/66/2/25	-	-	-	-	-	-	-
SAE500/66/2	66	-	-	-	-	-	-
SAE600/66/2	66	-	-	-	-	-	-
SAE380/72/2/25	-	-	-	-	-	-	-
SAE500/72/2	72	-	-	-	-	-	-
SAE600/72/2	72	-	-	-	-	-	-
SAE250/75/2	-	-	-	-	-	-	-
SAE380/75/2	75	-	-	-	-	-	-
SAE380/75/2/25	-	-	-	-	-	-	-
SAE500/75/2	75	-	-	-	-	-	-
SAE600/75/2	75	-	-	-	-	-	-
SAE380/78/2	78	-	-	-	-	-	-
SAE380/78/2/25	-	-	-	-	-	-	-
SAE500/78/2	78	-	-	-	-	-	-

Artikel	A	Safe Working load - Timber to timber - Bolt connection					
		Verbindungsmittel				Safe Working Load - Timber C16 [kN]	
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}	R _{1,SWL,mittlere}
Anzahl	Typ	Anzahl	Typ				
SAE600/78/2	78	-	-	-	-	-	-
SAE380/91/2	91	-	-	-	-	-	-
SAE380/91/2/25	-	-	-	-	-	-	-
SAE500/91/2	91	-	-	-	-	-	-
SAE600/91/2	91	-	-	-	-	-	-
SAE380/96/2	96	-	-	-	-	-	-
SAE380/96/2/25	-	-	-	-	-	-	-
SAE500/96/2	96	-	-	-	-	-	-
SAE600/96/2	96	-	-	-	-	-	-
SAE380/99/2	99	-	-	-	-	-	-
SAE380/99/2/25	-	-	-	-	-	-	-
SAE500/99/2	99	-	-	-	-	-	-
SAE600/99/2	99	-	-	-	-	-	-
SAE380/109/2	109	-	-	-	-	-	-
SAE380/109/2/25	-	-	-	-	-	-	-
SAE500/109/2	109	-	-	-	-	-	-
SAE600/109/2	109	-	-	-	-	-	-
SAE500/118/2	118	-	-	-	-	-	-
SAE600/118/2	118	-	-	-	-	-	-
SAE500/122/2	122	-	-	-	-	-	-
SAE600/122/2	122	-	-	-	-	-	-
SAE500/125/2	125	-	-	-	-	-	-
SAE600/125/2	125	-	-	-	-	-	-
SAE500/128/2	128	-	-	-	-	-	-
SAE600/128/2	128	-	-	-	-	-	-
SAE500/135/2	-	-	-	-	-	-	-
SAE600/135/2	-	-	-	-	-	-	-
SAE500/142/2	142	-	-	-	-	-	-
SAE600/142/2	142	-	-	-	-	-	-
SAE500/146/2	146	-	-	-	-	-	-
SAE600/146/2	146	-	-	-	-	-	-
SAE500/150/2	150	-	-	-	-	-	-
SAE600/150/2	150	-	-	-	-	-	-
SAE500/182/2	-	-	-	-	-	-	-
SAE600/182/2	182	-	-	-	-	-	-
SAE720/182/2	182	-	-	-	-	-	-
SAE600/196/2	196	-	-	-	-	-	-
SAE720/196/2	196	-	-	-	-	-	-
SAE590/200/2	200	-	-	-	-	-	-
SAE600	-	-	-	-	-	-	-
SAE720	-	-	-	-	-	-	-
SAE590	-	-	-	-	-	-	-
SAE250X	40-76	-	-	-	-	-	-
SAE380X	38 - 100	-	-	-	-	-	-
SAE500X	38 - 150	-	-	-	-	-	-
SAE600X	38 - 150	-	-	-	-	-	-
SAE690X	-	-	-	-	-	-	-
SAE720X	40-182	-	-	-	-	-	-

Timber support safe working loads are based upon calculation from BS 5268 Part 2 with grade 4.6 12mm bolts into C16 timber and load testing performed at Simpson Strong-Tie testing facility. Timber support safe working loads apply to a minimum support member thickness of 72mm. Safe working loads for smaller support members must be reduced in accordance with BS 5268 Part 2. Bolts are to be installed in accordance with recommendations within BS 5268: Part 2.

Charakteristische Tragfähigkeiten - Holz Beton Anschluss



Artikel	A	Charakter. Tragfähigkeit - Holz an Beton oder Stahl																			
		Verbindungsmittel				Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
		Hauptträger		Nebenträger		R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
		Anzahl	Typ	Anzahl	Typ	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0
SAE200/32/2	32	2	Ø10*	5	CNA**	11.7	-	-	-	8.4	-	-	-	2.1	-	-	-	5	-	-	-
SAE250/32/2	32	2	Ø10*	7	CNA**	15.1	-	-	-	11.7	-	-	-	2.8	-	-	-	5	-	-	-
SAE300/32/2	32	4	Ø12*	10	CNA**	20.1	-	-	-	16.8	-	-	-	3.6	-	-	-	10	-	-	-
SAE200/38/2	38	2	Ø10*	5	CNA**	11.7	-	-	-	8.4	-	-	-	2.2	-	-	-	5	-	-	-
SAE250/38/2	38	2	Ø10*	7	CNA**	15.1	-	-	-	11.7	-	-	-	3	-	-	-	5	-	-	-
SAE300/38/2	38	4	Ø12*	10	CNA**	20.1	-	-	-	16.8	-	-	-	4	-	-	-	10	-	-	-
SAE340/38/2	38	4	Ø12*	12	CNA**	23.5	-	-	-	20.1	-	-	-	4.5	-	-	-	10	-	-	-
SAE380/38/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE380/38	38	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE440/38/2	38	4	Ø12*	15	CNA**	28.5	-	-	-	25.1	-	-	-	5	-	-	-	10	-	-	-
SAE200/40/2	40	2	Ø10*	5	CNA**	11.7	-	-	-	8.4	-	-	-	2.3	-	-	-	5	-	-	-
SAE250/40/2	40	2	Ø10*	7	CNA**	15.1	-	-	-	11.7	-	-	-	3.1	-	-	-	5	-	-	-
SAE300/40/2	40	4	Ø12*	10	CNA**	20.1	-	-	-	16.8	-	-	-	4.1	-	-	-	10	-	-	-
SAE340/40/2	40	4	Ø12*	12	CNA**	23.5	-	-	-	20.1	-	-	-	4.6	-	-	-	10	-	-	-
SAE200/46/2	46	2	Ø10*	5	CNA**	11.7	12.8	-	-	8.4	9.2	-	-	2.4	2.8	-	-	5	5	-	-
SAE250/46/2	46	2	Ø10*	7	CNA**	15.1	16.5	-	-	11.7	12.8	-	-	3.3	3.8	-	-	5	5	-	-
SAE340/46/2	46	4	Ø12*	12	CNA**	23.5	25.7	-	-	20.1	22	-	-	5	5.7	-	-	10	10	-	-
SAE500/46/2	46	4	Ø12*	18	CNA**	33.5	36.7	-	-	30.2	33	-	-	6.2	7	-	-	10	10	-	-
SAE200/50/2	50	2	Ø10*	5	CNA**	11.7	12.8	-	-	8.4	9.2	-	-	2.5	2.9	-	-	5	5	-	-
SAE250/50/2	50	2	Ø10*	7	CNA**	15.1	16.5	-	-	11.7	12.8	-	-	3.4	3.9	-	-	5	5	-	-
SAE300/50/2	50	4	Ø12*	10	CNA**	20.1	22	-	-	16.8	18.4	-	-	4.6	5.3	-	-	10	10	-	-
SAE340/50/2	50	4	Ø12*	12	CNA**	23.5	25.7	-	-	20.1	22	-	-	5.2	6	-	-	10	10	-	-
SAE500/50/2	50	4	Ø12*	18	CNA**	33.5	36.7	-	-	30.2	33	-	-	6.6	7.4	-	-	10	10	-	-
SAE200/60/2	60	2	Ø10*	5	CNA**	11.7	12.8	15.5	-	8.4	9.2	11.1	-	2.6	3.1	4	-	5	5	5	-
SAE250/60/2	60	2	Ø10*	7	CNA**	15.1	16.5	19	-	11.7	12.8	15.5	-	3.6	4.2	5.4	-	5	5	5	-
SAE300/60/2	60	4	Ø12*	10	CNA**	20.1	22	26.6	-	16.8	18.4	22.2	-	4.9	5.7	7.3	-	10	10	10	-
SAE340/60/2	60	4	Ø12*	12	CNA**	23.5	25.7	31	-	20.1	22	26.6	-	5.7	6.5	8.3	-	10	10	10	-
SAE200/64/2	64	2	Ø10*	5	CNA**	11.7	12.8	15.5	16.5	8.4	9.2	11.1	11.8	2.7	3.1	4.1	4.8	5	5	5	5
SAE250/64/2	64	2	Ø10*	7	CNA**	15.1	16.5	19	19	11.7	12.8	15.5	16.5	3.7	4.3	5.6	6.6	5	5	5	5
SAE300/64/2	64	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5	5.8	7.5	8.7	10	10	10	10
SAE340/64/2	64	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	5.8	6.7	8.6	9.9	10	10	10	10
SAE380/64/2	64	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	5.8	6.7	8.6	9.9	10	10	10	10
SAE380/66/2	66	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	5.9	6.8	8.7	10.1	10	10	10	10
SAE440/66/2	66	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	6.9	7.9	10.1	11.5	10	10	10	10
SAE200/70/2	70	2	Ø10*	5	CNA**	11.7	12.8	15.5	16.5	8.4	9.2	11.1	11.8	2.7	3.2	4.2	5	5	5	5	5
SAE250/70/2	70	2	Ø10*	7	CNA**	15.1	16.5	19	19	11.7	12.8	15.5	16.5	3.8	4.4	5.7	6.8	5	5	5	5
SAE300/70/2	70	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5.2	6	7.8	9.1	10	10	10	10
SAE340/70/2	70	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6	7	8.9	10.4	10	10	10	10
SAE380/70/2	70	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6	7	8.9	10.4	10	10	10	10
SAE440/70/2	70	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.1	8.1	10.4	11.9	10	10	10	10

Artikel	A	Charakter. Tragfähigkeit - Holz an Beton oder Stahl																			
		Verbindungsmittel				Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
		Hauptträger		Nebenträger		R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
		Anzahl	Typ	Anzahl	Typ	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0
SAEL300/72/2	72	4	Ø12*	8	CNA**	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	4.2	4.9	6.4	7.5	10	10	10	10
SAEL340/72/2	72	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5.1	6	7.7	9	10	10	10	10
SAE380/72/2	72	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.1	7	9	10.5	10	10	10	10
SAE440/72/2	72	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.1	8.3	10.5	12.1	10	10	10	10
SAE200/76/2	76	2	Ø10*	5	CNA**	11.7	12.8	15.5	16.5	8.4	9.2	11.1	11.8	2.8	3.3	4.3	5.1	5	5	5	5
SAE250/76/2	76	2	Ø10*	7	CNA**	15.1	16.5	19	19	11.7	12.8	15.5	16.5	3.8	4.5	5.9	7	5	5	5	5
SAEL300/76/2	76	4	Ø12*	8	CNA**	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	4.3	5	6.5	7.7	10	10	10	10
SAEL340/76/2	76	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5.2	6.1	7.8	9.2	10	10	10	10
SAE380/76/2	76	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.2	7.2	9.2	10.8	10	10	10	10
SAE440/76/2	76	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.3	8.4	10.8	12.5	10	10	10	10
SAE500/76/2	76	4	Ø12*	18	CNA**	33.5	36.7	38	38	30.2	33	37.6	37.6	8.2	9.5	12	13.7	10	10	10	10
SAE200/80/2	80	2	Ø10*	5	CNA**	11.7	12.8	15.5	16.5	8.4	9.2	11.1	11.8	2.8	3.3	4.3	5.2	5	5	5	5
SAE250/80/2	80	2	Ø10*	7	CNA**	15.1	16.5	19	19	11.7	12.8	15.5	16.5	3.9	4.6	5.9	7.1	5	5	5	5
SAEL300/80/2	80	4	Ø12*	8	CNA**	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	4.3	5.1	6.6	7.9	10	10	10	10
SAEL340/80/2	80	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5.3	6.2	8	9.4	10	10	10	10
SAE380/80/2	80	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.2	7.3	9.4	11.1	10	10	10	10
SAE440/80/2	80	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.4	8.6	11	12.8	10	10	10	10
SAE500/80/2	80	4	Ø12*	18	CNA**	33.5	36.7	38	38	30.2	33	37.7	37.7	8.4	9.7	12.3	14.2	10	10	10	10
SAE380/90/2	90	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.4	7.5	9.8	11.6	10	10	10	10
SAE440/90/2	90	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.7	9	11.6	13.6	10	10	10	10
SAE500/90/2	90	4	Ø12*	18	CNA**	33.5	36.7	38	38	30.2	33	37.7	37.7	8.8	10.2	13.1	15.1	10	10	10	10
SAE380/92/2	92	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.5	7.6	9.8	11.7	10	10	10	10
SAE440/95/2	95	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.8	9.2	11.8	13.9	10	10	10	10
SAE500/95/2	95	4	Ø12*	18	CNA**	33.5	36.7	38	38	30.2	33	37.7	37.7	9	10.4	13.4	15.6	10	10	10	10
SAEL300/100/2	100	4	Ø12*	8	CNA**	16.8	18.4	22.2	23.6	13.4	14.7	17.7	18.9	4.5	5.3	7	8.4	10	10	10	10
SAE380/100/2	100	4	Ø12*	12	CNA**	23.5	25.7	31	33	20.1	22	26.6	28.3	6.6	7.7	10.1	12	10	10	10	10
SAE440/100/2	100	4	Ø12*	15	CNA**	28.5	31.2	37.7	38	25.1	27.5	33.2	35.4	7.9	9.3	12	14.2	10	10	10	10
SAE500/100/2	100	4	Ø12*	18	CNA**	33.5	36.7	38	38	30.2	33	37.7	37.7	9.1	10.6	13.7	16	10	10	10	10
SAEL300/115/2	115	4	Ø12*	16	CNA**	30.2	33	38	38	26.8	29.4	35.5	37.6	8.6	10	13	15.4	10	10	10	10
SAEL380/120/2	120	4	Ø12*	10	CNA**	20.1	22	26.6	28.3	16.8	18.4	22.2	23.6	5.7	6.8	8.9	10.7	10	10	10	10
SAEL440/120/2	120	4	Ø12*	13	CNA**	25.1	27.5	33.2	35.4	21.8	23.9	28.8	30.7	7.2	8.5	11.1	13.4	10	10	10	10
SAEL500/120/2	120	4	Ø12*	16	CNA**	30.2	33	38	38	26.8	29.4	35.5	37.7	8.6	10.1	13.2	15.6	10	10	10	10
SAEL440/136/2	136	4	Ø12*	13	CNA**	25.1	27.5	33.2	35.4	21.8	23.9	28.8	30.7	7.4	8.7	11.4	13.8	10	10	10	10
SAEL500/140/2	140	4	Ø12*	16	CNA**	30.2	33	38	38	26.8	29.4	35.5	37.7	8.9	10.5	13.7	16.5	10	10	10	10
SAEL500/150/2	150	4	Ø12*	16	CNA**	30.2	33	38	38	26.8	29.4	35.5	37.7	9	10.6	13.9	16.8	10	10	10	10
SAE500/38	38	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/38	38	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/40	40	2	Ø10*	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/46	46	2	Ø10*	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/45	45	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/46	46	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/44	44	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/50	50	2	Ø10*	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50	50	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/50	50	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/50	50	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/64	64	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/64	64	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/64	64	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/66	66	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/66	66	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/76	76	2	Ø10*	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/76	76	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/76	76	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/76	76	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/90	90	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Artikel	A	Charakter. Tragfähigkeit - Holz an Beton oder Stahl																		
		Verbindungsmittel				Charakter. Tragfähigkeiten - Nadelholz C24 [kN]														
		Hauptträger		Nebenträger		R _{1,k}			R _{2,k}			R _{3,k}			R _{4,k}					
		Anzahl	Typ	Anzahl	Typ	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0
SAE380/92	92	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/90	90	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/91	91	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/91	91	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/100	100	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/100	100	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/100	100	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/116	116	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/125	125	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/125	125	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAEL500/150	150	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/150	150	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE590/200	200	6	Ø12*	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380 - All	-	4	Ø12*	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/38-100	-	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/125-150	-	6	Ø12*	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/38-100	-	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620/125-150	-	8	Ø12*	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE620X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/38/2	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/40/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/40/2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE200/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/47/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/47/2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50/2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/50/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/50/2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/56/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/56/2	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/63/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/63/2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/66/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/66/2	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/66/2	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/72/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/72/2	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/72/2	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE250/75/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/75/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE500/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE600/75/2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAE380/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

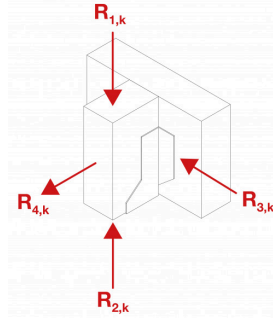
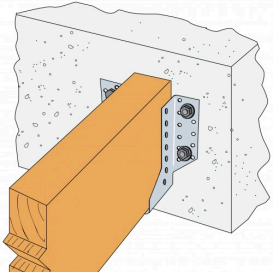
Artikel	A	Charakter. Tragfähigkeit - Holz an Beton oder Stahl																			
		Verbindungsmittel				Charakter. Tragfähigkeiten - Nadelholz C24 [kN]															
		Hauptträger		Nebenträger		R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}			
		Anzahl	Typ	Anzahl	Typ	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	A4,0	
SAE380/78/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/78/2	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE380/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE380/91/2/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/91/2	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE380/96/2	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/99/2	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/122/2	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/125/2	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/128/2	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/135/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500/142/2	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/142/2	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500/146/2	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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SAE500/150/2	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/150/2	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500/182/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/182/2	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE720/182/2	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600/196/2	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE720/196/2	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE590/200/2	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE250X	40-76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE380X	38 - 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE500X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE600X	38 - 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE690X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SAE720X	40-182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

* Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. The values in this table are given for an installation in the middle of a concrete slab. In other installation

condition (close to the edge,...), the designer must check the anchor separately (Our free software Anchor Designer is available for download on our website).

** Refer to Characteristic Capacity table columns for type of fasteners that can be used in Flange A. Capacities vary depending on fastener type used.

Product capacities - Timber to Masonry support



Artikel	A	Safe Working Loads - Timber to Masonry Support							
		Verbindungsmittel				Sichere Arbeitslasten [kN]			
		Hauptträger		Nebenträger		R _{1, SWL, langzeit}			
		Anzahl	Typ	Anzahl	Typ	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE200/32/2	32	-	-	-	-	-	-	-	
SAE250/32/2	32	-	-	-	-	-	-	-	
SAE300/32/2	32	-	-	-	-	-	-	-	
SAE200/38/2	38	-	-	-	-	-	-	-	
SAE250/38/2	38	-	-	-	-	-	-	-	
SAE300/38/2	38	-	-	-	-	-	-	-	
SAE340/38/2	38	-	-	-	-	-	-	-	
SAE380/38/2/25	-	-	-	-	-	-	-	-	
SAE380/38	38	-	-	-	-	-	-	-	
SAE440/38/2	38	-	-	-	-	-	-	-	
SAE200/40/2	40	-	-	-	-	-	-	-	
SAE250/40/2	40	-	-	-	-	-	-	-	
SAE300/40/2	40	-	-	-	-	-	-	-	
SAE340/40/2	40	-	-	-	-	-	-	-	
SAE200/46/2	46	-	-	-	-	-	-	-	
SAE250/46/2	46	-	-	-	-	-	-	-	
SAE340/46/2	46	-	-	-	-	-	-	-	
SAE500/46/2	46	-	-	-	-	-	-	-	
SAE200/50/2	50	-	-	-	-	-	-	-	
SAE250/50/2	50	-	-	-	-	-	-	-	
SAE300/50/2	50	-	-	-	-	-	-	-	
SAE340/50/2	50	-	-	-	-	-	-	-	
SAE500/50/2	50	-	-	-	-	-	-	-	
SAE200/60/2	60	-	-	-	-	-	-	-	
SAE250/60/2	60	-	-	-	-	-	-	-	
SAE300/60/2	60	-	-	-	-	-	-	-	
SAE340/60/2	60	-	-	-	-	-	-	-	
SAE200/64/2	64	-	-	-	-	-	-	-	
SAE250/64/2	64	-	-	-	-	-	-	-	
SAE300/64/2	64	-	-	-	-	-	-	-	
SAE340/64/2	64	-	-	-	-	-	-	-	
SAE380/64/2	64	-	-	-	-	-	-	-	
SAE380/66/2	66	-	-	-	-	-	-	-	
SAE440/66/2	66	-	-	-	-	-	-	-	
SAE200/70/2	70	-	-	-	-	-	-	-	
SAE250/70/2	70	-	-	-	-	-	-	-	

Artikel	A	Safe Working Loads - Timber to Masonry Support							
		Verbindungsmittel				Sichere Arbeitslasten [kN]			
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}			
		Anzahl	Typ	Anzahl	Typ	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE300/70/2	70	-	-	-	-	-	-	-	-
SAE340/70/2	70	-	-	-	-	-	-	-	-
SAE380/70/2	70	-	-	-	-	-	-	-	-
SAE440/70/2	70	-	-	-	-	-	-	-	-
SAEL300/72/2	72	-	-	-	-	-	-	-	-
SAEL340/72/2	72	-	-	-	-	-	-	-	-
SAE380/72/2	72	-	-	-	-	-	-	-	-
SAE440/72/2	72	-	-	-	-	-	-	-	-
SAE200/76/2	76	-	-	-	-	-	-	-	-
SAE250/76/2	76	-	-	-	-	-	-	-	-
SAEL300/76/2	76	-	-	-	-	-	-	-	-
SAEL340/76/2	76	-	-	-	-	-	-	-	-
SAE380/76/2	76	-	-	-	-	-	-	-	-
SAE440/76/2	76	-	-	-	-	-	-	-	-
SAE500/76/2	76	-	-	-	-	-	-	-	-
SAE200/80/2	80	-	-	-	-	-	-	-	-
SAE250/80/2	80	-	-	-	-	-	-	-	-
SAEL300/80/2	80	-	-	-	-	-	-	-	-
SAEL340/80/2	80	-	-	-	-	-	-	-	-
SAE380/80/2	80	-	-	-	-	-	-	-	-
SAE440/80/2	80	-	-	-	-	-	-	-	-
SAE500/80/2	80	-	-	-	-	-	-	-	-
SAE380/90/2	90	-	-	-	-	-	-	-	-
SAE440/90/2	90	-	-	-	-	-	-	-	-
SAE500/90/2	90	-	-	-	-	-	-	-	-
SAE380/92/2	92	-	-	-	-	-	-	-	-
SAE440/95/2	95	-	-	-	-	-	-	-	-
SAE500/95/2	95	-	-	-	-	-	-	-	-
SAEL300/100/2	100	-	-	-	-	-	-	-	-
SAE380/100/2	100	-	-	-	-	-	-	-	-
SAE440/100/2	100	-	-	-	-	-	-	-	-
SAE500/100/2	100	-	-	-	-	-	-	-	-
SAEL500/115/2	115	-	-	-	-	-	-	-	-
SAEL380/120/2	120	-	-	-	-	-	-	-	-
SAEL440/120/2	120	-	-	-	-	-	-	-	-
SAEL500/120/2	120	-	-	-	-	-	-	-	-
SAEL440/136/2	136	-	-	-	-	-	-	-	-
SAEL500/140/2	140	-	-	-	-	-	-	-	-
SAEL500/150/2	150	-	-	-	-	-	-	-	-
SAE200	-	-	-	-	-	-	-	-	-
SAE250	-	-	-	-	-	-	-	-	-
SAE300	-	-	-	-	-	-	-	-	-
SAEL300	-	-	-	-	-	-	-	-	-
SAE340	-	-	-	-	-	-	-	-	-
SAEL340	-	-	-	-	-	-	-	-	-
SAE380	-	-	-	-	-	-	-	-	-
SAEL380	-	-	-	-	-	-	-	-	-
SAE440	-	-	-	-	-	-	-	-	-
SAEL440	-	-	-	-	-	-	-	-	-
SAE500	-	-	-	-	-	-	-	-	-
SAEL500	-	-	-	-	-	-	-	-	-
SAE500/38	38	-	-	-	-	-	-	-	-
SAE620/38	38	-	-	-	-	-	-	-	-
SAE250/40	40	-	-	-	-	-	-	-	-
SAE250/46	46	-	-	-	-	-	-	-	-
SAE380/45	45	-	-	-	-	-	-	-	-

Artikel	A	Safe Working Loads - Timber to Masonry Support							
		Verbindungsmittel				Sichere Arbeitslasten [kN]			
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}			
		Anzahl	Typ	Anzahl	Typ	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE500/46	46	-	-	-	-	-	-	-	-
SAE620/44	44	-	-	-	-	-	-	-	-
SAE250/50	50	-	-	-	-	-	-	-	-
SAE380/50	50	-	-	-	-	-	-	-	-
SAE500/50	50	-	-	-	-	-	-	-	-
SAE620/50	50	-	-	-	-	-	-	-	-
SAE380/64	64	-	-	-	-	-	-	-	-
SAE500/64	64	-	-	-	-	-	-	-	-
SAE620/64	64	-	-	-	-	-	-	-	-
SAE380/66	66	-	-	-	-	-	-	-	-
SAE500/66	66	-	-	-	-	-	-	-	-
SAE250/76	76	-	-	-	-	-	-	-	-
SAE380/76	76	-	-	-	-	-	-	-	-
SAE500/76	76	-	-	-	-	-	-	-	-
SAE620/76	76	-	-	-	-	-	-	-	-
SAE380/90	90	-	-	-	-	-	-	-	-
SAE380/92	92	-	-	-	-	-	-	-	-
SAE500/90	90	-	-	-	-	-	-	-	-
SAE500/91	91	-	-	-	-	-	-	-	-
SAE620/91	91	-	-	-	-	-	-	-	-
SAE380/100	100	-	-	-	-	-	-	-	-
SAE500/100	100	-	-	-	-	-	-	-	-
SAE620/100	100	-	-	-	-	-	-	-	-
SAE620/116	116	-	-	-	-	-	-	-	-
SAE500/125	125	-	-	-	-	-	-	-	-
SAE620/125	125	-	-	-	-	-	-	-	-
SAEL500/150	150	-	-	-	-	-	-	-	-
SAE620/150	150	-	-	-	-	-	-	-	-
SAE590/200	200	-	-	-	-	-	-	-	-
SAE380 - All	-	4	Ø12	12	N3.75x30	1.8	2.2	4	4
SAE500/38-100	-	6	Ø12	18	N3.75x30	3.6	4.4	8	16
SAE500/125-150	-	6	Ø12	18	N3.75x30	3.6	4.4	8	16
SAE620/38-100	-	8	Ø12	22	N3.75x30	3.6	4.4	8	16
SAE620/125-150	-	8	Ø12	22	N3.75x30	3.6	4.4	8	16
SAE620X	38 - 150	-	-	-	-	-	-	-	-
SAE380/38/2	38	-	-	-	-	-	-	-	-
SAE500/38/2	38	-	-	-	-	-	-	-	-
SAE600/38/2	38	-	-	-	-	-	-	-	-
SAE380/40/2	40	-	-	-	-	-	-	-	-
SAE380/40/2/25	-	-	-	-	-	-	-	-	-
SAE500/40/2	40	-	-	-	-	-	-	-	-
SAE600/40/2	40	-	-	-	-	-	-	-	-
SAE200/47/2	47	-	-	-	-	-	-	-	-
SAE250/47/2	47	-	-	-	-	-	-	-	-
SAE380/47/2	47	-	-	-	-	-	-	-	-
SAE380/47/2/25	-	-	-	-	-	-	-	-	-
SAE500/47/2	47	-	-	-	-	-	-	-	-
SAE600/47/2	47	-	-	-	-	-	-	-	-
SAE380/50/2	50	-	-	-	-	-	-	-	-
SAE380/50/2/25	-	-	-	-	-	-	-	-	-
SAE600/50/2	50	-	-	-	-	-	-	-	-
SAE380/56/2	56	-	-	-	-	-	-	-	-
SAE380/56/2/25	-	-	-	-	-	-	-	-	-
SAE500/56/2	56	-	-	-	-	-	-	-	-
SAE600/56/2	56	-	-	-	-	-	-	-	-
SAE380/63/2/25	-	-	-	-	-	-	-	-	-

Artikel	A	Safe Working Loads - Timber to Masonry Support							
		Verbindungsmittel				Sichere Arbeitslasten [kN]			
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}			
		Anzahl	Typ	Anzahl	Typ	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE380/63/2	63	-	-	-	-	-	-	-	-
SAE500/63/2	63	-	-	-	-	-	-	-	-
SAE600/63/2	63	-	-	-	-	-	-	-	-
SAE380/66/2/25	-	-	-	-	-	-	-	-	-
SAE500/66/2	66	-	-	-	-	-	-	-	-
SAE600/66/2	66	-	-	-	-	-	-	-	-
SAE380/72/2/25	-	-	-	-	-	-	-	-	-
SAE500/72/2	72	-	-	-	-	-	-	-	-
SAE600/72/2	72	-	-	-	-	-	-	-	-
SAE250/75/2	-	-	-	-	-	-	-	-	-
SAE380/75/2	75	-	-	-	-	-	-	-	-
SAE380/75/2/25	-	-	-	-	-	-	-	-	-
SAE500/75/2	75	-	-	-	-	-	-	-	-
SAE600/75/2	75	-	-	-	-	-	-	-	-
SAE380/78/2	78	-	-	-	-	-	-	-	-
SAE380/78/2/25	-	-	-	-	-	-	-	-	-
SAE500/78/2	78	-	-	-	-	-	-	-	-
SAE600/78/2	78	-	-	-	-	-	-	-	-
SAE380/91/2	91	-	-	-	-	-	-	-	-
SAE380/91/2/25	-	-	-	-	-	-	-	-	-
SAE500/91/2	91	-	-	-	-	-	-	-	-
SAE600/91/2	91	-	-	-	-	-	-	-	-
SAE380/96/2	96	-	-	-	-	-	-	-	-
SAE380/96/2/25	-	-	-	-	-	-	-	-	-
SAE500/96/2	96	-	-	-	-	-	-	-	-
SAE600/96/2	96	-	-	-	-	-	-	-	-
SAE380/99/2	99	-	-	-	-	-	-	-	-
SAE380/99/2/25	-	-	-	-	-	-	-	-	-
SAE500/99/2	99	-	-	-	-	-	-	-	-
SAE600/99/2	99	-	-	-	-	-	-	-	-
SAE380/109/2	109	-	-	-	-	-	-	-	-
SAE380/109/2/25	-	-	-	-	-	-	-	-	-
SAE500/109/2	109	-	-	-	-	-	-	-	-
SAE600/109/2	109	-	-	-	-	-	-	-	-
SAE500/118/2	118	-	-	-	-	-	-	-	-
SAE600/118/2	118	-	-	-	-	-	-	-	-
SAE500/122/2	122	-	-	-	-	-	-	-	-
SAE600/122/2	122	-	-	-	-	-	-	-	-
SAE500/125/2	125	-	-	-	-	-	-	-	-
SAE600/125/2	125	-	-	-	-	-	-	-	-
SAE500/128/2	128	-	-	-	-	-	-	-	-
SAE600/128/2	128	-	-	-	-	-	-	-	-
SAE500/135/2	-	-	-	-	-	-	-	-	-
SAE600/135/2	-	-	-	-	-	-	-	-	-
SAE500/142/2	142	-	-	-	-	-	-	-	-
SAE600/142/2	142	-	-	-	-	-	-	-	-
SAE500/146/2	146	-	-	-	-	-	-	-	-
SAE600/146/2	146	-	-	-	-	-	-	-	-
SAE500/150/2	150	-	-	-	-	-	-	-	-
SAE600/150/2	150	-	-	-	-	-	-	-	-
SAE500/182/2	-	-	-	-	-	-	-	-	-
SAE600/182/2	182	-	-	-	-	-	-	-	-
SAE720/182/2	182	-	-	-	-	-	-	-	-
SAE600/196/2	196	-	-	-	-	-	-	-	-
SAE720/196/2	196	-	-	-	-	-	-	-	-
SAE590/200/2	200	-	-	-	-	-	-	-	-

Artikel	A	Safe Working Loads - Timber to Masonry Support							
		Verbindungsmittel				Sichere Arbeitslasten [kN]			
		Hauptträger		Nebenträger		R _{1,SWL,langzeit}			
		Anzahl	Typ	Anzahl	Typ	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE600	-	-	-	-	-	-	-	-	
SAE720	-	-	-	-	-	-	-	-	
SAE590	-	-	-	-	-	-	-	-	
SAE250X	40-76	-	-	-	-	-	-	-	
SAE380X	38 - 100	-	-	-	-	-	-	-	
SAE500X	38 - 150	-	-	-	-	-	-	-	
SAE600X	38 - 150	-	-	-	-	-	-	-	
SAE690X	-	-	-	-	-	-	-	-	
SAE720X	40-182	-	-	-	-	-	-	-	

Masonry support safe working loads are based upon calculation with Rawl R-KF2 and 12mm stud anchors. Select and install fixings according to manufacturers recommendations. Other manufacturers anchors can be used. The designer is to check the alternate fixing suitability and reduce the safe working load where limited by the fixing. Contact Simpson Strong-Tie for bolt hole locations.

SAE Hangers - Bolt Attachment

Artikel	Fasteners qty		Safe Working Load [kN]					
	Support ⁽⁴⁾	Carried Member ⁵	Timber Support		Masonry support			
			Langzeitbelastung	mittlere Dauer	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE200/32/2	-	-	-	-	-	-	-	-
SAE250/32/2	-	-	-	-	-	-	-	-
SAE300/32/2	-	-	-	-	-	-	-	-
SAE200/38/2	-	-	-	-	-	-	-	-
SAE250/38/2	-	-	-	-	-	-	-	-
SAE300/38/2	-	-	-	-	-	-	-	-
SAE340/38/2	-	-	-	-	-	-	-	-
SAE380/38/2/25	-	-	-	-	-	-	-	-
SAE380/38	-	-	-	-	-	-	-	-
SAE440/38/2	-	-	-	-	-	-	-	-
SAE200/40/2	-	-	-	-	-	-	-	-
SAE250/40/2	-	-	-	-	-	-	-	-
SAE300/40/2	-	-	-	-	-	-	-	-
SAE340/40/2	-	-	-	-	-	-	-	-
SAE200/46/2	-	-	-	-	-	-	-	-
SAE250/46/2	-	-	-	-	-	-	-	-
SAE340/46/2	-	-	-	-	-	-	-	-
SAE500/46/2	-	-	-	-	-	-	-	-
SAE200/50/2	-	-	-	-	-	-	-	-
SAE250/50/2	-	-	-	-	-	-	-	-
SAE300/50/2	-	-	-	-	-	-	-	-
SAE340/50/2	-	-	-	-	-	-	-	-
SAE500/50/2	-	-	-	-	-	-	-	-
SAE200/60/2	-	-	-	-	-	-	-	-
SAE250/60/2	-	-	-	-	-	-	-	-
SAE300/60/2	-	-	-	-	-	-	-	-
SAE340/60/2	-	-	-	-	-	-	-	-
SAE200/64/2	-	-	-	-	-	-	-	-
SAE250/64/2	-	-	-	-	-	-	-	-
SAE300/64/2	-	-	-	-	-	-	-	-
SAE340/64/2	-	-	-	-	-	-	-	-
SAE380/64/2	-	-	-	-	-	-	-	-
SAE380/66/2	-	-	-	-	-	-	-	-
SAE440/66/2	-	-	-	-	-	-	-	-
SAE200/70/2	-	-	-	-	-	-	-	-
SAE250/70/2	-	-	-	-	-	-	-	-

Artikel	Fasteners qty		Safe Working Load [kN]					
	Support ⁽⁴⁾	Carried Member ⁵	Timber Support		Masonry support			
			Langzeitbelastung	mittlere Dauer	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE300/70/2	-	-	-	-	-	-	-	-
SAE340/70/2	-	-	-	-	-	-	-	-
SAE380/70/2	-	-	-	-	-	-	-	-
SAE440/70/2	-	-	-	-	-	-	-	-
SAEL300/72/2	-	-	-	-	-	-	-	-
SAEL340/72/2	-	-	-	-	-	-	-	-
SAE380/72/2	-	-	-	-	-	-	-	-
SAE440/72/2	-	-	-	-	-	-	-	-
SAE200/76/2	-	-	-	-	-	-	-	-
SAE250/76/2	-	-	-	-	-	-	-	-
SAEL300/76/2	-	-	-	-	-	-	-	-
SAEL340/76/2	-	-	-	-	-	-	-	-
SAE380/76/2	-	-	-	-	-	-	-	-
SAE440/76/2	-	-	-	-	-	-	-	-
SAE500/76/2	-	-	-	-	-	-	-	-
SAE200/80/2	-	-	-	-	-	-	-	-
SAE250/80/2	-	-	-	-	-	-	-	-
SAEL300/80/2	-	-	-	-	-	-	-	-
SAEL340/80/2	-	-	-	-	-	-	-	-
SAE380/80/2	-	-	-	-	-	-	-	-
SAE440/80/2	-	-	-	-	-	-	-	-
SAE500/80/2	-	-	-	-	-	-	-	-
SAE380/90/2	-	-	-	-	-	-	-	-
SAE440/90/2	-	-	-	-	-	-	-	-
SAE500/90/2	-	-	-	-	-	-	-	-
SAE380/92/2	-	-	-	-	-	-	-	-
SAE440/95/2	-	-	-	-	-	-	-	-
SAE500/95/2	-	-	-	-	-	-	-	-
SAEL300/100/2	-	-	-	-	-	-	-	-
SAE380/100/2	-	-	-	-	-	-	-	-
SAE440/100/2	-	-	-	-	-	-	-	-
SAE500/100/2	-	-	-	-	-	-	-	-
SAEL500/115/2	-	-	-	-	-	-	-	-
SAEL380/120/2	-	-	-	-	-	-	-	-
SAEL440/120/2	-	-	-	-	-	-	-	-
SAEL500/120/2	-	-	-	-	-	-	-	-
SAEL440/136/2	-	-	-	-	-	-	-	-
SAEL500/140/2	-	-	-	-	-	-	-	-
SAEL500/150/2	-	-	-	-	-	-	-	-
SAE200	-	-	-	-	-	-	-	-
SAE250	-	-	-	-	-	-	-	-
SAE300	-	-	-	-	-	-	-	-
SAEL300	-	-	-	-	-	-	-	-
SAE340	-	-	-	-	-	-	-	-
SAEL340	-	-	-	-	-	-	-	-
SAE380	-	-	-	-	-	-	-	-
SAEL380	-	-	-	-	-	-	-	-
SAE440	-	-	-	-	-	-	-	-
SAEL440	-	-	-	-	-	-	-	-
SAE500	-	-	-	-	-	-	-	-
SAEL500	-	-	-	-	-	-	-	-
SAE500/38	-	-	-	-	-	-	-	-
SAE620/38	-	-	-	-	-	-	-	-
SAE250/40	-	-	-	-	-	-	-	-
SAE250/46	-	-	-	-	-	-	-	-
SAE380/45	-	-	-	-	-	-	-	-
SAE500/46	-	-	-	-	-	-	-	-

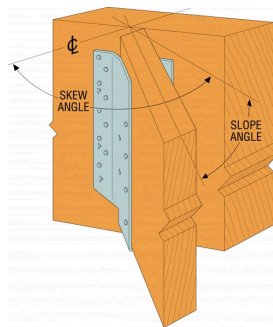
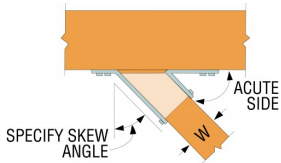
Artikel	Fasteners qty		Safe Working Load [kN]					
	Support ⁽⁴⁾	Carried Member ⁵	Timber Support		Masonry support			
			Langzeitbelastung	mittlere Dauer	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE620/44	-	-	-	-	-	-	-	-
SAE250/50	-	-	-	-	-	-	-	-
SAE380/50	-	-	-	-	-	-	-	-
SAE500/50	-	-	-	-	-	-	-	-
SAE620/50	-	-	-	-	-	-	-	-
SAE380/64	-	-	-	-	-	-	-	-
SAE500/64	-	-	-	-	-	-	-	-
SAE620/64	-	-	-	-	-	-	-	-
SAE380/66	-	-	-	-	-	-	-	-
SAE500/66	-	-	-	-	-	-	-	-
SAE250/76	-	-	-	-	-	-	-	-
SAE380/76	-	-	-	-	-	-	-	-
SAE500/76	-	-	-	-	-	-	-	-
SAE620/76	-	-	-	-	-	-	-	-
SAE380/90	-	-	-	-	-	-	-	-
SAE380/92	-	-	-	-	-	-	-	-
SAE500/90	-	-	-	-	-	-	-	-
SAE500/91	-	-	-	-	-	-	-	-
SAE620/91	-	-	-	-	-	-	-	-
SAE380/100	-	-	-	-	-	-	-	-
SAE500/100	-	-	-	-	-	-	-	-
SAE620/100	-	-	-	-	-	-	-	-
SAE620/116	-	-	-	-	-	-	-	-
SAE500/125	-	-	-	-	-	-	-	-
SAE620/125	-	-	-	-	-	-	-	-
SAEL500/150	-	-	-	-	-	-	-	-
SAE620/150	-	-	-	-	-	-	-	-
SAE590/200	-	-	-	-	-	-	-	-
SAE380 - All	4 M12	12	6.95	7.94	1.80	2.20	4.00	4.00
SAE500/38-100	6 M12	18	10.10	11.54	3.60	4.40	8.00	16.00
SAE500/125-150	6 M12	18	7.99	9.13	3.60	4.40	8.00	16.00
SAE620/38-100	8 M12	22	13.03	14.89	3.60	4.40	8.00	16.00
SAE620/125-150	8 M12	22	10.86	12.41	3.60	4.40	8.00	16.00
SAE620X	-	-	-	-	-	-	-	-
SAE380/38/2	-	-	-	-	-	-	-	-
SAE500/38/2	-	-	-	-	-	-	-	-
SAE600/38/2	-	-	-	-	-	-	-	-
SAE380/40/2	-	-	-	-	-	-	-	-
SAE380/40/2/25	-	-	-	-	-	-	-	-
SAE500/40/2	-	-	-	-	-	-	-	-
SAE600/40/2	-	-	-	-	-	-	-	-
SAE200/47/2	-	-	-	-	-	-	-	-
SAE250/47/2	-	-	-	-	-	-	-	-
SAE380/47/2	-	-	-	-	-	-	-	-
SAE380/47/2/25	-	-	-	-	-	-	-	-
SAE500/47/2	-	-	-	-	-	-	-	-
SAE600/47/2	-	-	-	-	-	-	-	-
SAE380/50/2	-	-	-	-	-	-	-	-
SAE380/50/2/25	-	-	-	-	-	-	-	-
SAE600/50/2	-	-	-	-	-	-	-	-
SAE380/56/2	-	-	-	-	-	-	-	-
SAE380/56/2/25	-	-	-	-	-	-	-	-
SAE500/56/2	-	-	-	-	-	-	-	-
SAE600/56/2	-	-	-	-	-	-	-	-
SAE380/63/2/25	-	-	-	-	-	-	-	-
SAE380/63/2	-	-	-	-	-	-	-	-
SAE500/63/2	-	-	-	-	-	-	-	-

Artikel	Fasteners qty		Safe Working Load [kN]					
	Support ⁽⁴⁾	Carried Member ⁵	Timber Support		Masonry support			
			Langzeitbelastung	mittlere Dauer	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE600/63/2	-	-	-	-	-	-	-	-
SAE380/66/2/25	-	-	-	-	-	-	-	-
SAE500/66/2	-	-	-	-	-	-	-	-
SAE600/66/2	-	-	-	-	-	-	-	-
SAE380/72/2/25	-	-	-	-	-	-	-	-
SAE500/72/2	-	-	-	-	-	-	-	-
SAE600/72/2	-	-	-	-	-	-	-	-
SAE250/75/2	-	-	-	-	-	-	-	-
SAE380/75/2	-	-	-	-	-	-	-	-
SAE380/75/2/25	-	-	-	-	-	-	-	-
SAE500/75/2	-	-	-	-	-	-	-	-
SAE600/75/2	-	-	-	-	-	-	-	-
SAE380/78/2	-	-	-	-	-	-	-	-
SAE380/78/2/25	-	-	-	-	-	-	-	-
SAE500/78/2	-	-	-	-	-	-	-	-
SAE600/78/2	-	-	-	-	-	-	-	-
SAE380/91/2	-	-	-	-	-	-	-	-
SAE380/91/2/25	-	-	-	-	-	-	-	-
SAE500/91/2	-	-	-	-	-	-	-	-
SAE600/91/2	-	-	-	-	-	-	-	-
SAE380/96/2	-	-	-	-	-	-	-	-
SAE380/96/2/25	-	-	-	-	-	-	-	-
SAE500/96/2	-	-	-	-	-	-	-	-
SAE600/96/2	-	-	-	-	-	-	-	-
SAE380/99/2	-	-	-	-	-	-	-	-
SAE380/99/2/25	-	-	-	-	-	-	-	-
SAE500/99/2	-	-	-	-	-	-	-	-
SAE600/99/2	-	-	-	-	-	-	-	-
SAE380/109/2	-	-	-	-	-	-	-	-
SAE380/109/2/25	-	-	-	-	-	-	-	-
SAE500/109/2	-	-	-	-	-	-	-	-
SAE600/109/2	-	-	-	-	-	-	-	-
SAE500/118/2	-	-	-	-	-	-	-	-
SAE600/118/2	-	-	-	-	-	-	-	-
SAE500/122/2	-	-	-	-	-	-	-	-
SAE600/122/2	-	-	-	-	-	-	-	-
SAE500/125/2	-	-	-	-	-	-	-	-
SAE600/125/2	-	-	-	-	-	-	-	-
SAE500/128/2	-	-	-	-	-	-	-	-
SAE600/128/2	-	-	-	-	-	-	-	-
SAE500/135/2	-	-	-	-	-	-	-	-
SAE600/135/2	-	-	-	-	-	-	-	-
SAE500/142/2	-	-	-	-	-	-	-	-
SAE600/142/2	-	-	-	-	-	-	-	-
SAE500/146/2	-	-	-	-	-	-	-	-
SAE600/146/2	-	-	-	-	-	-	-	-
SAE500/150/2	-	-	-	-	-	-	-	-
SAE600/150/2	-	-	-	-	-	-	-	-
SAE500/182/2	-	-	-	-	-	-	-	-
SAE600/182/2	-	-	-	-	-	-	-	-
SAE720/182/2	-	-	-	-	-	-	-	-
SAE600/196/2	-	-	-	-	-	-	-	-
SAE720/196/2	-	-	-	-	-	-	-	-
SAE590/200/2	-	-	-	-	-	-	-	-
SAE600	-	-	-	-	-	-	-	-
SAE720	-	-	-	-	-	-	-	-
SAE590	-	-	-	-	-	-	-	-

Artikel	Fasteners qty		Safe Working Load [kN]					
	Support (4)	Carried Member ⁵	Timber Support		Masonry support			
			Langzeitbelastung	mittlere Dauer	2.8 N/mm ²	3.5 N/mm ²	7 N/mm ²	20 N/mm ²
SAE250X	-	-	-	-	-	-	-	-
SAE380X	-	-	-	-	-	-	-	-
SAE500X	-	-	-	-	-	-	-	-
SAE600X	-	-	-	-	-	-	-	-
SAE690X	-	-	-	-	-	-	-	-
SAE720X	-	-	-	-	-	-	-	-

1. Safe working loads apply to bolt attachment only.
2. Timber support safe working loads are based upon calculation from BS 5268 Part 2 with grade 4.6 12mm bolts into C16 timber and load testing performed at Simpson Strong-Tie testing facility. Timber support safe working loads apply to a minimum support member thickness of 72mm. Safe working loads for smaller support members must be reduced in accordance with BS 5268 Part 2. Bolts are to be installed in accordance with recommendations within BS 5268: Part 2.
3. Masonry support safe working loads are based upon calculation with Rawl R-KF2 and 12mm stud anchors. Select and install fixings according to manufacturers recommendations. Other manufacturers anchors can be used. The designer is to check the alternate fixing suitability and reduce the safe working load where limited by the fixing. Contact Simpson Strong-Tie for bolt hole locations.
4. M12 Bolts.
5. 3.75 x 30mm Square Twist Nails

SAE(X) Made to Order Specials



Artikel	Abmessungen und charakteristische Werte [mm]						Verbindungsmittel		Safe Working Load [kN]
	A	B	C	D	F	t	Hauptträger	Nebenträger	R _{1,SWL,Langzeit}
							Anzahl	Anzahl	C16 Hauptträger N3.75x30
SAE250X	40-76	87-105	64	-	-	-	6	4	2.3
SAE380X	38 - 100	140 - 175	64	41.5	86	2	14	6	5.4
SAE500X	38 - 150	165 - 235	64	41.5	86	2	18	8	6.9
SAE600X	38 - 150	235 - 290	64	-	-	-	28	10	10.8
SAE690X	-	-	-	41.5	86	2	-	-	-
SAE720X	40-182	269 - 340	64	-	-	-	28	10	10.8

1. These hangers are based upon Composite Wood style SAE hangers and contain round and triangular nail holes only. (ie. **No Bolt Holes**).
2. SWL's are based upon a maximum nailing schedule—all round and triangular holes filled.
3. Skews right or left up to 67.5° and slopes up or down up to 45°. For combined skew and sloped hangers the maximum SWL is 80% of the stated loads.
4. Enables hangers to be manufactured for any combination of widths and heights listed for a model number.
5. To order specify model number, width, height, skew and/or slope.eg SAE380/63 Skewed Right at 15° becomes SAE380X, A = 63, B = 159, SKR = 15° (for no skewed/sloped options please specify skew = 0° & slope = 0°).

Product characteristic capacities - Timber to timber - with connector screw SSH

Artikel	Product capacities - Timber to Timber - with connector screw SSH																		
	Verbindungsmittel		Characteristic capacities - Timber C24 [kN]																
	Hauptträger		R _{1,k}				R _{2,k}				R _{3,k}				R _{4,k}				
	Arz	Type	Arz	Typ	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	CNA4.0334	CNA4.0354	
SAE200	2	SSH10.0x40	CN		5.6	6.3	6.3	6.3	5.7	6	6.4	6.4	2.1	2.1	3.6	4.1	5	5	5
SAE250	2	SSH10.0x40	CNA*		7	7.2	7.2	7.2	6.9	7.1	7.2	7.2	2	2.2	2.7	3.1	5	5	5
SAE300	2	SSH12.0x60	CN		11.4	11.5	11.5	11.4	11.1	11.5	11.5	3.4	3.1	4.1	4.6	5	5	5	
SAEL300	2	SSH12.0x60	CNA*		10.7	11	11.4	11.4	10.8	11	11.4	11.4	3	3.6	4.1	4.6	5	5	5
SAE340	4	SSH12.0x60	CN		18.4	19	21	21	18.4	19	21	21	3.8	4.1	6.4	7.1	10	10	10
SAEL340	4	SSH12.0x60	CNA*		15.3	16.9	19.1	19.8	15.3	16.9	19.7	20.3	3.4	4.3	6.2	7.3	10	10	10
SAE380	4	SSH12.0x60	CN		18.4	19	21	21	18.4	19	21	21	3.8	4.1	5.6	6.4	10	10	10
SAEL380	4	SSH12.0x60	CNA*		15.3	16.9	19.1	19.8	15.3	16.9	19.7	20.3	3.4	4.3	5.6	6.4	10	10	10
SAE440	4	SSH12.0x60	CN		22	22	23	23	22	22	23	23	4.2	4.1	5.3	5.9	10	10	10
SAEL440	4	SSH12.0x60	CNA*		19.9	21.2	22.7	22.9	20	21.5	22.8	22.9	4	4.8	5.3	5.9	10	10	10
SAE500	6	SSH12.0x60	CN		27.7	30	33.4	33	27.7	30	33.4	33	4.5	5.1	6.5	7.1	15	15	15
SAEL500	6	SSH12.0x60	CNA*		24.6	27.1	31.7	32.7	24.6	27.1	32.2	33	4.3	5.4	6.5	7.2	15	15	15

Transversal tension shall be checked by the user and may govern.

These values are valid if the following minimum distances from SSH screws to edges are fulfilled:

Screw	min. dist. to loaded edge a _{2,t}	min. dist to unloaded edge a _{2,c}
SSH10.0	50	40
SSH12.0	80	40

for lower distances, check ETA-06/0270 and EN1995.

The minimum thickness of the supporting timber member to use with SSH10x40 is 38 mm and for SSH12x60 is 73 mm.

INSTALLATION

Befestigungsmittel

Joist :

- Connector Nails CNA Ø 4.0 x 50 mm.
- Connector Nails CNA Ø 4.0 x 35 mm for width smaller than 64 mm.
- Screws CSA Ø 5.0 x 40 mm.
- Screws CSA Ø 5.0 x 35 mm for width smaller than 60 mm.

Header :**Timber**

- Connector Nails CNA Ø 4.0 x 50 mm.
- Connector Nails CNA Ø 4.0 x 35 mm for width smaller than 64 mm.
- Screws CSA Ø 5.0 x 40 mm.
- Screws CSA Ø 5.0 x 35 mm for width smaller than 60 mm.
- SSH Ø 10.0 x 40 - 50 - 60 - 80 mm (for SAE200 and SAE250)
- SSH Ø 12.0 x 60 - 80 mm (for SAE300, SAE340, SAE380, SAE440 and SAE500)

Steel :

- Bolt Ø 12 or Ø 10 mm depending of the blank model (The diameter of the model must be maximum 2mm smaller than the hole diameter).

Concrete :

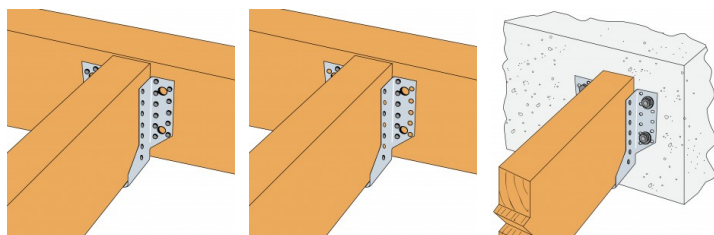
- Mechanical anchor : WA M10-78/5 (for SAE200 and 250) and WA M12-104/5 (for SAE300, 340, 380, 440 and 500).
- Chemical anchor : resin AT-HP with threaded rod LMAS M10-120/25 (for SAE200 and 250) and LMAS M12-150/35 (for SAE300, 340, 380, 440 and 500).

Befestigung

- LSSU Sparrenkopfverbinder können auf der Baustelle an die gewünschte Neigung angepasst werden.

LSSU Sparrenkopfverbinder:

- für geneigte u./o. schräge Anschlüsse
- Winkel bis +/- 45°



Clouage total
sur bois

Clouage partiel
sur bois

Fixation sur
support rigide

TECHNICAL NOTES