



De productserie SAE is uitgegroeid tot een onmisbaar hulpmiddel in de bouwsector. Deze veelzijdig inzetbare ophangbeugels zorgen voor betrouwbare verbindingen zonder maakwerk en helpen constructies beter beveiligen.



[NL-DoP-e06/0270](#), [ETA-06/0270](#)

KENMERKEN

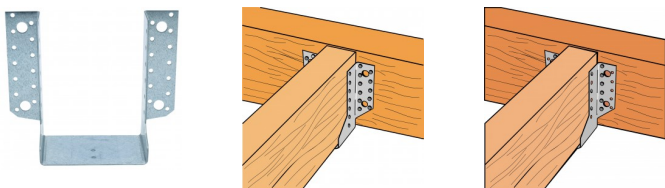


Materiaal

- Verzinkt staal S250GD + Z275 overeenkomstig NF EN 10346.
- Dikte 2 mm.

Voordelen

- Eenvoudige en snelle montage.



TOEPASSINGEN

Ondergrond

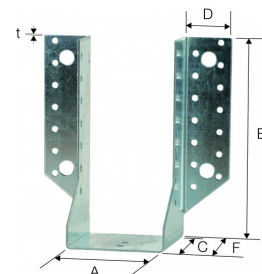
- **Dragers** : massief hout, compositiehout, gelijmd gelamineerd hout, staal, beton.
- **Gedragen bouwdeel** : massief hout, compositiehout, gelijmd gelamineerd hout.

Toepassingsgebieden

- Dwarsbalken, gordingen,
- Gladde balken en gevelbekledingsstijlen,
- Voeteinden van kepers,
- Versteving van bestaande verbindingen enz.

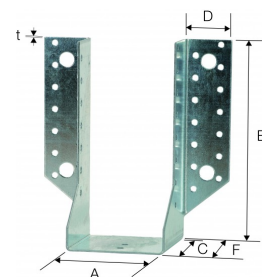
TECHNISCHE GEGEVENS

Uitzetmaten en breedte



Referentie	Uitzetmaten en breedten [mm]	Breedte [mm]	Diepte	Fasteners on the joist CNA4.0x50 or CSA5.0x40	Fasteners on the header CNA4.0x50 or CSA5.0x40	Bevestigingen op de drager
SAE200	200	24 - 80 mm	84	5	8	2 Ø10
SAE250	250	24 - 80 mm	84	7	12	2 Ø10
SAEL300	300	24 - 116 mm	84	10	18	4 Ø12
SAEL340	340	24 - 116 mm	84	12	22	4 Ø12
SAEL380	380	24 - 156 mm	84	12	22	4 Ø12
SAEL440	440	24 - 156 mm	84	15	28	4 Ø12
SAEL500	500	24 - 156 mm	84	15	34	4 Ø12

Afmetingen



Referentie	Afmetingen balk				Afmetingen [mm]						Boorgat op drager		Boorgat op gedragen
	Breedte		Hoogte		A	B	C	Diameter Ø	H	Dikte	Ø5 [mm]	Ø13 [mm]	Ø5 [mm]
	Min.	Max.	Min.	Max.									
SAE200/32/	30	32	99	126	32	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/	30	32	149	201	32	134	84	41.5	86	2	18	4	10
SAE200/38/2	36	38	96	122	38	81	84	41.5	86	2	8	2	5
SAE250/38/	36	38	116	159	38	106	84	41.5	86	2	12	2	7
SAE300/38/2	36	38	146	197	38	131	84	41.5	86	2	18	4	10
SAE340/38/	36	38	166	227	38	151	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
SAE200/40/	38	40	95	120	40	80	84	41.5	86	2	8	2	5
SAE250/40/2	38	40	115	158	40	105	84	41.5	86	2	12	2	7
SAE300/40/	38	40	145	195	40	130	84	41.5	86	2	18	4	10

Referentie	Afmetingen balk				Afmetingen [mm]						Boorgat op drager		Boorgat op gedragen
	Breedte		Hoogte		A	B	C	Diameter Ø	H	Dikte	Ø5 [mm]	Ø13 [mm]	Ø5 [mm]
	Min.	Max.	Min.	Max.									
SAE340/40/2	38	40	165	225	40	150	84	41.5	86	2	22	4	12
SAE200/46/1	44	46	92	116	46	77	84	41.5	86	2	8	2	5
SAE250/46/2	44	46	112	153	46	102	84	41.5	86	2	12	2	7
SAE340/46/1	44	46	162	221	46	147	84	41.5	86	2	22	4	12
SAE500/46/2	44	46	242	341	46	227	84	41.5	86	2	34	4	18
SAE200/50/1	48	50	90	113	50	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
SAE300/50/1	48	50	140	188	50	125	84	41.5	86	2	18	4	10
SAE340/50/2	48	50	160	218	50	145	84	41.5	86	2	22	4	12
SAE500/50/1	48	50	240	338	50	225	84	41.5	86	2	34	4	18
SAE200/60/2	58	60	85	105	60	70	84	41.5	86	2	8	2	5
SAE250/60/1	58	60	105	143	60	95	84	41.5	86	2	12	2	7
SAE300/60/2	58	60	135	180	60	120	84	41.5	86	2	18	4	10
SAE340/60/1	58	60	155	210	60	140	84	41.5	86	2	22	4	12
SAE200/64/2	62	64	83	102	64	68	84	41.5	86	2	8	2	5
SAE250/64/1	62	64	103	140	64	93	84	41.5	86	2	12	2	7
SAE300/64/2	62	64	133	177	64	118	84	41.5	86	2	18	4	10
SAE340/64/1	62	64	153	207	64	138	84	41.5	86	2	22	4	12
SAE380/64/2	62	64	173	237	64	158	84	41.5	86	2	22	4	12
SAE380/66/1	64	66	172	236	66	157	84	41.5	86	2	22	4	12
SAE440/66/2	64	66	202	281	66	187	84	41.5	86	2	28	4	15
SAE200/70/1	68	70	80	98	70	65	84	41.5	86	2	8	2	5
SAE250/70/2	68	70	100	135	70	90	84	41.5	86	2	12	2	7
SAE300/70/1	68	70	130	173	70	115	84	41.5	86	2	18	4	10
SAE340/70/2	68	70	150	203	70	135	84	41.5	86	2	22	4	12
SAE380/70/1	68	70	170	233	70	155	84	41.5	86	2	22	4	12
SAE440/70/2	68	70	200	278	70	185	84	41.5	86	2	28	4	15
SAEL300/72/1	70	72	129	171	72	114	84	41.5	86	2	16	4	8
SAEL340/72/2	70	72	149	201	72	134	84	41.5	86	2	20	4	10
SAE380/72/1	70	72	169	231	72	154	84	41.5	86	2	22	4	12
SAE440/72/2	70	72	199	276	72	184	84	41.5	86	2	28	4	15
SAE200/76/1	74	76	77	93	76	62	84	41.5	86	2	8	2	5
SAE250/76/2	74	76	97	131	76	87	84	41.5	86	2	12	2	7
SAEL300/76/1	74	76	127	168	76	112	84	41.5	86	2	16	4	8
SAEL340/76/2	74	76	147	198	76	132	84	41.5	86	2	20	4	10
SAE380/76/1	74	76	167	228	76	152	84	41.5	86	2	22	4	12
SAE440/76/2	74	76	197	273	76	182	84	41.5	86	2	28	4	15
SAE500/76/1	74	76	227	318	76	212	84	41.5	86	2	34	4	18
SAE200/80/2	78	80	75	90	80	60	84	41.5	86	2	8	2	5
SAE250/80/1	78	80	95	128	80	85	84	41.5	86	2	12	2	7
SAEL300/80/2	78	80	125	165	80	110	84	41.5	86	2	16	4	8
SAEL340/80/1	78	80	145	195	80	130	84	41.5	86	2	20	4	10
SAE380/80/2	78	80	165	225	80	150	84	41.5	86	2	22	4	12
SAE440/80/1	78	80	195	270	80	180	84	41.5	86	2	28	4	15
SAE500/80/2	78	80	225	315	80	210	84	41.5	86	2	34	4	18
SAE380/90/1	88	90	160	218	90	145	84	41.5	86	2	22	4	12
SAE440/90/2	88	90	190	263	90	175	84	41.5	86	2	28	4	15
SAE500/90/1	88	90	220	308	90	205	84	41.5	86	2	34	4	18
SAE380/92/2	90	92	159	216	92	144	84	41.5	86	2	22	4	12
SAE440/95/1	93	95	188	259	95	172.5	84	41.5	86	2	28	4	15
SAE500/95/2	93	95	218	304	95	202.5	84	41.5	86	2	34	4	18
SAEL300/100/1	98	100	115	150	100	100	84	41.5	86	2	16	4	8
SAE380/100/2	98	100	155	210	100	140	84	41.5	86	2	22	4	12
SAE440/100/1	98	100	185	255	100	170	84	41.5	86	2	28	4	15
SAE500/100/2	98	100	215	300	100	200	84	41.5	86	2	34	4	18

Referentie	Afmetingen balk				Afmetingen [mm]						Boorgat op drager		Boorgat op gedragen
	Breedte		Hoogte		A	B	C	Diameter Ø	H	Dikte	Ø5 [mm]	Ø13 [mm]	Ø5 [mm]
	Min.	Max.	Min.	Max.									
SAEL500/115	113	115	208	289	115	192.5	84	41.5	86	2	32	4	16
SAEL380/120/2	118	120	145	195	120	130	84	41.5	86	2	20	4	10
SAEL440/120	118	120	175	240	120	160	84	41.5	86	2	26	4	13
SAEL500/120/2	118	120	205	285	120	190	84	41.5	86	2	32	4	16
SAEL440/136	134	136	167	228	136	152	84	41.5	86	2	26	4	13
SAEL500/140/2	138	140	195	270	140	180	84	41.5	86	2	32	4	16
SAEL500/150	148	150	190	263	150	175	84	41.5	86	2	32	4	16

Karakteristieke waarden - Hout op hout - Volledige vernageling

Referentie	Karakteristieke waarden voor hout / hout - Volledige vernageling										
	Bevestigingen		Karakteristieke waarden - Hout C24 [kN]								
	Drager	Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}		
Hoeveelheid	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE200/32/2	8	5	6.3	-	3.3	-	0.9	-	2.5	-	-
SAE250/32/2	12	7	9.8	-	6	-	1.5	-	3.7	-	-
SAE300/32/2	18	10	16.1	-	11.3	-	3.3	-	5.5	-	-
SAE200/38/2	8	5	6	-	3.3	-	0.9	-	2.5	-	-
SAE250/38/2	12	7	9.4	-	6	-	1.6	-	3.7	-	-
SAE300/38/2	18	10	15.6	-	11.3	-	3.3	-	5.5	-	-
SAE340/38/2	22	12	20.2	-	15.6	-	4.3	-	6.7	-	-
SAE440/38/2	28	15	28.5	-	22.9	-	5	-	8.6	-	-
SAE200/40/2	8	5	5.9	-	3.3	-	0.9	-	2.5	-	-
SAE250/40/2	12	7	9.3	-	6	-	1.6	-	3.7	-	-
SAE300/40/2	18	10	15.4	-	11.3	-	3.3	-	5.5	-	-
SAE340/40/2	22	12	20	-	15.6	-	4.4	-	6.7	-	-
SAE200/46/2	8	5	5.5	-	3.3	-	0.9	-	2.5	-	-
SAE250/46/2	12	7	8.9	-	6	-	1.6	-	3.7	-	-
SAE340/46/2	22	12	19.5	-	15.6	-	4.4	-	6.7	-	-
SAE500/46/2	34	18	33.5	-	30.2	-	6.2	-	10.4	-	-
SAE200/50/2	8	5	5.3	-	3.3	-	1	-	2.5	-	-
SAE250/50/2	12	7	8.6	-	6	-	1.6	-	3.7	-	-
SAE300/50/2	18	10	14.5	-	11.3	-	3.3	-	5.5	-	-
SAE340/50/2	22	12	19.1	-	15.6	-	4.4	-	6.7	-	-
SAE500/50/2	34	18	33.5	-	30.2	-	6.6	-	10.4	-	-
SAE200/60/2	8	5	4.7	7.4	3.3	5.3	1	1.3	2.5	3.9	-
SAE250/60/2	12	7	7.8	12.1	6	9.4	1.6	2.1	3.7	5.9	-
SAE300/60/2	18	10	13.6	20.8	11.3	17.6	3.3	4.4	5.5	8.8	-
SAE340/60/2	22	12	18.1	27.4	15.6	24	4.4	5.9	6.7	10.8	-
SAE200/64/2	8	5	4.5	7	3.3	5.3	1	1.3	2.5	3.9	-
SAE250/64/2	12	7	7.5	11.7	6	9.4	1.6	2.1	3.7	5.9	-
SAE300/64/2	18	10	13.2	20.3	11.3	17.6	3.4	4.4	5.5	8.8	-
SAE340/64/2	22	12	17.7	26.9	15.6	24	4.5	5.9	6.7	10.8	-
SAE380/64/2	22	12	21.5	31	15.6	24	3.8	5.1	6.7	10.8	-
SAE380/66/2	22	12	21.3	31	15.6	24	3.9	5.1	6.7	10.8	-
SAE440/66/2	28	15	28.5	37.7	22.9	33.2	5.5	7.2	8.6	13.7	-
SAE200/70/2	8	5	4.1	6.5	3.3	5.3	1	1.3	2.5	3.9	-
SAE250/70/2	12	7	7.1	11	6	9.4	1.6	2.1	3.7	5.9	-
SAE300/70/2	18	10	12.7	19.5	11.3	17.6	3.4	4.4	5.5	8.8	-
SAE340/70/2	22	12	17.1	26	15.6	24	4.5	5.9	6.7	10.8	-
SAE380/70/2	22	12	21	31	15.6	24	3.9	5.1	6.7	10.8	-
SAE440/70/2	28	15	28.5	37.7	22.9	33.2	5.5	7.2	8.6	13.7	-
SAEL300/72/2	16	8	12.4	18.9	9.4	14.6	2.6	3.4	4.9	7.8	-
SAEL340/72/2	20	10	16.7	25.3	13.4	20.7	3.6	4.8	6.1	9.8	-
SAE380/72/2	22	12	20.8	31	15.6	24	3.9	5.1	6.7	10.8	-

Referentie	Karakteristieke waarden voor hout / hout - Volledige vernageling									
	Bevestigingen		Karakteristieke waarden - Hout C24 [kN]							
	Drager	Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE440/72/2	28	15	28.5	37.7	22.9	33.2	5.5	7.3	8.6	13.7
SAE200/76/2	8	5	3.8	5.9	3.3	5.3	1	1.4	2.5	3.9
SAE250/76/2	12	7	6.6	10.3	6	9.4	1.6	2.1	3.7	5.9
SAEL300/76/2	16	8	12	18.4	9.4	14.6	2.6	3.4	4.9	7.8
SAEL340/76/2	20	10	16.3	24.7	13.4	20.7	3.6	4.8	6.1	9.8
SAE380/76/2	22	12	20.4	30.5	15.6	24	3.9	5.1	6.7	10.8
SAE440/76/2	28	15	28.1	37.7	22.9	33.2	5.5	7.3	8.6	13.7
SAE500/76/2	34	18	33.5	44.3	30.2	39.9	7.2	9.5	10.4	16.7
SAE200/80/2	8	5	3.5	5.6	3.3	5.3	1	1.4	2.5	3.9
SAE250/80/2	12	7	6.3	9.9	6	9.4	1.6	2.1	3.7	5.9
SAEL300/80/2	16	8	11.7	17.9	9.4	14.6	2.6	3.4	4.9	7.8
SAEL340/80/2	20	10	15.9	24.2	13.4	20.7	3.6	4.8	6.1	9.8
SAE380/80/2	22	12	20	30	15.6	24	3.9	5.1	6.7	10.8
SAE440/80/2	28	15	27.7	37.7	22.9	33.2	5.5	7.3	8.6	13.7
SAE500/80/2	34	18	33.5	44.3	30.2	39.9	7.2	9.5	10.4	16.7
SAE380/90/2	22	12	19.1	28.8	15.6	24	3.9	5.2	6.7	10.8
SAE440/90/2	28	15	26.7	37.7	22.9	33.2	5.6	7.3	8.6	13.7
SAE500/90/2	34	18	33.5	44.3	30.2	39.9	7.3	9.6	10.4	16.7
SAE380/92/2	22	12	18.9	28.5	15.6	24	3.9	5.2	6.7	10.8
SAE440/95/2	28	15	26.2	37.7	22.9	33.2	5.6	7.4	8.6	13.7
SAE500/95/2	34	18	33.5	44.3	30.2	39.9	7.3	9.6	10.4	16.7
SAEL300/100/2	16	8	9.9	15.3	9.4	14.6	2.6	3.5	4.9	7.8
SAE380/100/2	22	12	18.1	27.4	15.6	24	3.9	5.2	6.7	10.8
SAE440/100/2	28	15	25.7	37.7	22.9	33.2	5.6	7.4	8.6	13.7
SAE500/100/2	34	18	33.5	44.3	30.2	39.9	7.3	9.6	10.4	16.7
SAEL500/115/2	32	16	30.2	39.9	26.8	35.5	6.4	8.5	9.8	15.7
SAEL380/120/2	20	10	15.9	24.2	13.4	20.7	3.2	4.2	6.1	9.8
SAEL440/120/2	26	13	23.1	33.2	20.4	28.8	4.7	6.3	8	12.7
SAEL500/120/2	32	16	30.2	39.9	26.8	35.5	6.4	8.5	9.8	15.7
SAEL440/136/2	26	13	21.4	32.5	20.4	28.8	4.8	6.3	8	12.7
SAEL500/140/2	32	16	29	39.9	26.8	35.5	6.5	8.5	9.8	15.7
SAEL500/150/2	32	16	27.8	39.9	26.8	35.5	6.5	8.5	9.8	15.7

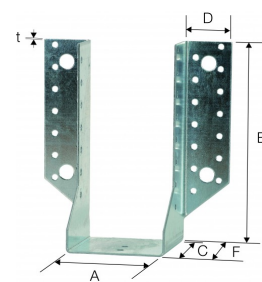
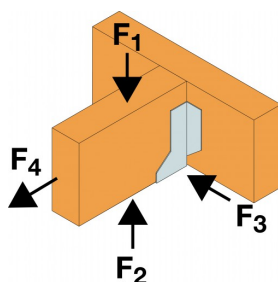
Karakteristieke waarden - Hout op hout - Gedeeltelijke vernageling

Referentie	Karakteristieke waarden voor hout / hout - Gedeeltelijke vernageling									
	Bevestigingen		Karakteristieke waarden - Hout C24 [kN]							
	Drager	Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE200/32/2	4	4	3.7	-	1.8	-	0.4	-	1.2	-
SAE250/32/2	6	4	5.8	-	2.5	-	0.8	-	1.8	-
SAE300/32/2	10	6	9.1	-	6.5	-	1.1	-	3.1	-
SAE200/38/2	4	4	3.5	-	1.8	-	0.5	-	1.2	-
SAE250/38/2	6	4	5.6	-	2.5	-	0.8	-	1.8	-
SAE300/38/2	10	6	8.8	-	6.5	-	1.1	-	3.1	-
SAE340/38/2	12	6	11.9	-	8.7	-	1.8	-	3.7	-
SAE440/38/2	14	8	16.8	-	11	-	1.9	-	4.3	-
SAE200/40/2	4	4	3.5	-	1.8	-	0.5	-	1.2	-
SAE250/40/2	6	4	5.6	-	2.5	-	0.8	-	1.8	-
SAE300/40/2	10	6	8.7	-	6.5	-	1.1	-	3.1	-
SAE340/40/2	12	6	11.8	-	8.7	-	1.9	-	3.7	-
SAE200/46/2	4	4	3.3	-	1.8	-	0.5	-	1.2	-
SAE250/46/2	6	4	5.4	-	2.5	-	0.8	-	1.8	-
SAE340/46/2	12	6	11.5	-	8.7	-	2.1	-	3.7	-
SAE500/46/2	18	10	20.1	-	16.8	-	2.3	-	5.5	-

Referentie	Karakteristieke waarden voor hout / hout - Gedeeltelijke vernageling									
	Bevestigingen		Karakteristieke waarden - Hout C24 [kN]							
	Drager	Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE200/50/2	4	4	3.2	-	1.8	-	0.5	-	1.2	-
SAE250/50/2	6	4	5.2	-	2.5	-	0.8	-	1.8	-
SAE300/50/2	10	6	8.2	-	6.5	-	1.1	-	3.1	-
SAE340/50/2	12	6	11.3	-	8.7	-	2.2	-	3.7	-
SAE500/50/2	18	10	20.1	-	16.8	-	2.5	-	5.5	-
SAE200/60/2	4	4	2.9	4.5	1.8	2.8	0.5	0.7	1.2	2
SAE250/60/2	6	4	4.9	7.4	2.5	3.9	0.8	1.1	1.8	2.9
SAE300/60/2	10	6	7.7	11.7	6.5	10	1.2	1.5	3.1	4.9
SAE340/60/2	12	6	10.8	16.2	8.7	13.3	2.5	3.6	3.7	5.9
SAE200/64/2	4	4	2.8	4.3	1.8	2.8	0.5	0.7	1.2	2
SAE250/64/2	6	4	4.7	7.2	2.5	3.9	0.8	1.1	1.8	2.9
SAE300/64/2	10	6	7.4	11.4	6.5	10	1.2	1.5	3.1	4.9
SAE340/64/2	12	6	10.5	15.9	8.7	13.3	2.6	3.7	3.7	5.9
SAE380/64/2	12	6	12.6	17.7	8.7	13.3	2.4	3.2	3.7	5.9
SAE380/66/2	12	6	12.5	17.7	8.7	13.3	2.4	3.2	3.7	5.9
SAE440/66/2	14	8	15.9	22.2	11	16.8	2.8	3.7	4.3	6.9
SAE200/70/2	4	4	2.6	4.1	1.8	2.8	0.5	0.7	1.2	2
SAE250/70/2	6	4	4.5	6.9	2.5	3.9	0.8	1.1	1.8	2.9
SAE300/70/2	10	6	7.1	10.9	6.5	10	1.2	1.5	3.1	4.9
SAE340/70/2	12	6	10.2	15.4	8.7	13.3	2.7	3.7	3.7	5.9
SAE380/70/2	12	6	12.3	17.7	8.7	13.3	2.4	3.2	3.7	5.9
SAE440/70/2	14	8	15.7	22.2	11	16.8	2.8	3.7	4.3	6.9
SAEL300/72/2	8	4	7.5	11.2	4.6	7.1	1.3	1.8	2.5	3.9
SAEL340/72/2	10	6	9.5	14.2	6.4	10	1.9	2.5	3.1	4.9
SAE380/72/2	12	6	12.2	17.7	8.7	13.3	2.4	3.2	3.7	5.9
SAE440/72/2	14	8	15.6	22.2	11	16.8	2.8	3.7	4.3	6.9
SAE200/76/2	4	4	2.5	3.8	1.8	2.8	0.5	0.7	1.2	2
SAE250/76/2	6	4	4.2	6.5	2.5	3.9	0.8	1.1	1.8	2.9
SAEL300/76/2	8	4	7.3	10.9	4.6	7.1	1.3	1.8	2.5	3.9
SAEL340/76/2	10	6	9.3	14	6.4	10	1.9	2.5	3.1	4.9
SAE380/76/2	12	6	12	17.7	8.7	13.3	2.4	3.2	3.7	5.9
SAE440/76/2	14	8	15.4	22.2	11	16.8	2.8	3.7	4.3	6.9
SAE500/76/2	18	10	20.1	26.6	16.8	22.2	3.2	4.3	5.5	8.8
SAE200/80/2	4	4	2.3	3.6	1.8	2.8	0.6	0.7	1.2	2
SAE250/80/2	6	4	4.1	6.3	2.5	3.9	0.8	1.1	1.8	2.9
SAEL300/80/2	8	4	7.1	10.7	4.6	7.1	1.4	1.8	2.5	3.9
SAEL340/80/2	10	6	9.1	13.7	6.4	10	1.9	2.5	3.1	4.9
SAE380/80/2	12	6	11.8	17.5	8.7	13.3	2.4	3.2	3.7	5.9
SAE440/80/2	14	8	15.2	22.2	11	16.8	2.8	3.8	4.3	6.9
SAE500/80/2	18	10	20.1	26.6	16.8	22.2	3.3	4.3	5.5	8.8
SAE380/90/2	12	6	11.3	16.9	8.7	13.3	2.5	3.2	3.7	5.9
SAE440/90/2	14	8	14.8	21.7	11	16.8	2.9	3.8	4.3	6.9
SAE500/90/2	18	10	20.1	26.6	16.8	22.2	3.3	4.3	5.5	8.8
SAE380/92/2	12	6	11.2	16.7	8.7	13.3	2.5	3.3	3.7	5.9
SAE440/95/2	14	8	14.5	21.4	11	16.8	2.9	3.8	4.3	6.9
SAE500/95/2	18	10	20.1	26.6	16.8	22.2	3.3	4.4	5.5	8.8
SAEL300/100/2	8	4	6.2	9.5	4.6	7.1	1.4	1.8	2.5	3.9
SAE380/100/2	12	6	10.8	16.2	8.7	13.3	2.5	3.3	3.7	5.9
SAE440/100/2	14	8	14.2	21.1	11	16.8	2.9	3.8	4.3	6.9
SAE500/100/2	18	10	20	26.6	16.8	22.2	3.3	4.4	5.5	8.8
SAEL500/115/2	16	8	16.8	22.2	13.4	17.7	3.3	4.4	4.9	7.8
SAEL380/120/2	10	6	9.1	13.7	6.4	10	1.6	2.2	3.1	4.9
SAEL440/120/2	12	8	12.4	18.3	11.1	16.7	2	2.7	3.7	5.9
SAEL500/120/2	16	8	16.8	22.2	13.4	17.7	3.3	4.4	4.9	7.8
SAEL440/136/2	12	8	11.7	17.3	11.1	16.7	2.1	2.7	3.7	5.9
SAEL500/140/2	16	8	16.1	22.2	13.4	17.7	3.3	4.4	4.9	7.8

Referentie	Karakteristieke waarden voor hout / hout - Gedeeltelijke vernageling									
	Bevestigingen		Karakteristieke waarden - Hout C24 [kN]							
	Drager	Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAEL500/150/	16	8	15.5	22.2	13.4	17.7	3.3	4.4	4.9	7.8

Karakteristieke waarden - Hout op harde ondergrond



Referentie	Karakteristieke waarden voor hout / beton of staal										
	Bevestigingen			Karakteristieke waarden - Hout C24 [kN]							
	Drager		Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Type	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE200/32/2	2	Ø10*	5	11.7	-	8.4	-	2.1	-	5	-
SAE250/32/2	2	Ø10*	7	15.1	-	11.7	-	2.8	-	5	-
SAE300/32/2	4	Ø12*	10	20.1	-	16.8	-	3.6	-	10	-
SAE200/38/2	2	Ø10*	5	11.7	-	8.4	-	2.2	-	5	-
SAE250/38/2	2	Ø10*	7	15.1	-	11.7	-	3	-	5	-
SAE300/38/2	4	Ø12*	10	20.1	-	16.8	-	4	-	10	-
SAE340/38/2	4	Ø12*	12	23.5	-	20.1	-	4.5	-	10	-
SAE440/38/2	4	Ø12*	15	28.5	-	25.1	-	5	-	10	-
SAE200/40/2	2	Ø10*	5	11.7	-	8.4	-	2.3	-	5	-
SAE250/40/2	2	Ø10*	7	15.1	-	11.7	-	3.1	-	5	-
SAE300/40/2	4	Ø12*	10	20.1	-	16.8	-	4.1	-	10	-
SAE340/40/2	4	Ø12*	12	23.5	-	20.1	-	4.6	-	10	-
SAE200/46/2	2	Ø10*	5	11.7	-	8.4	-	2.4	-	5	-
SAE250/46/2	2	Ø10*	7	15.1	-	11.7	-	3.3	-	5	-
SAE340/46/2	4	Ø12*	12	23.5	-	20.1	-	5	-	10	-
SAE500/46/2	4	Ø12*	18	33.5	-	30.2	-	6.2	-	10	-
SAE200/50/2	2	Ø10*	5	11.7	-	8.4	-	2.5	-	5	-
SAE250/50/2	2	Ø10*	7	15.1	-	11.7	-	3.4	-	5	-
SAE300/50/2	4	Ø12*	10	20.1	-	16.8	-	4.6	-	10	-
SAE340/50/2	4	Ø12*	12	23.5	-	20.1	-	5.2	-	10	-
SAE500/50/2	4	Ø12*	18	33.5	-	30.2	-	6.6	-	10	-
SAE200/60/2	2	Ø10*	5	11.7	15.5	8.4	11.1	2.6	4	5	5
SAE250/60/2	2	Ø10*	7	15.1	19	11.7	15.5	3.6	5.4	5	5
SAE300/60/2	4	Ø12*	10	20.1	26.6	16.8	22.2	4.9	7.3	10	10
SAE340/60/2	4	Ø12*	12	23.5	31	20.1	26.6	5.7	8.3	10	10
SAE200/64/2	2	Ø10*	5	11.7	15.5	8.4	11.1	2.7	4.1	5	5
SAE250/64/2	2	Ø10*	7	15.1	19	11.7	15.5	3.7	5.6	5	5
SAE300/64/2	4	Ø12*	10	20.1	26.6	16.8	22.2	5	7.5	10	10
SAE340/64/2	4	Ø12*	12	23.5	31	20.1	26.6	5.8	8.6	10	10
SAE380/64/2	4	Ø12*	12	23.5	31	20.1	26.6	5.8	8.6	10	10
SAE380/66/2	4	Ø12*	12	23.5	31	20.1	26.6	5.9	8.7	10	10
SAE440/66/2	4	Ø12*	15	28.5	37.7	25.1	33.2	6.9	10.1	10	10
SAE200/70/2	2	Ø10*	5	11.7	15.5	8.4	11.1	2.7	4.2	5	5
SAE250/70/2	2	Ø10*	7	15.1	19	11.7	15.5	3.8	5.7	5	5
SAE300/70/2	4	Ø12*	10	20.1	26.6	16.8	22.2	5.2	7.8	10	10

Referentie	Karakteristieke waarden voor hout / beton of staal										
	Bevestigingen			Karakteristieke waarden - Hout C24 [kN]							
	Drager		Gedragen	R _{1,k}		R _{2,k}		R _{3,k}		R _{4,k}	
	Hoeveelheid	Type	Hoeveelheid	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50
SAE340/70/2	4	Ø12*	12	23.5	31	20.1	26.6	6	8.9	10	10
SAE380/70/2	4	Ø12*	12	23.5	31	20.1	26.6	6	8.9	10	10
SAE440/70/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.1	10.4	10	10
SAEL300/72/1	4	Ø12*	8	16.8	22.2	13.4	17.7	4.2	6.4	10	10
SAEL340/72/2	4	Ø12*	10	20.1	26.6	16.8	22.2	5.1	7.7	10	10
SAE380/72/2	4	Ø12*	12	23.5	31	20.1	26.6	6.1	9	10	10
SAE440/72/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.1	10.5	10	10
SAE200/76/2	2	Ø10*	5	11.7	15.5	8.4	11.1	2.8	4.3	5	5
SAE250/76/2	2	Ø10*	7	15.1	19	11.7	15.5	3.8	5.9	5	5
SAEL300/76/1	4	Ø12*	8	16.8	22.2	13.4	17.7	4.3	6.5	10	10
SAEL340/76/2	4	Ø12*	10	20.1	26.6	16.8	22.2	5.2	7.8	10	10
SAE380/76/2	4	Ø12*	12	23.5	31	20.1	26.6	6.2	9.2	10	10
SAE440/76/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.3	10.8	10	10
SAE500/76/2	4	Ø12*	18	33.5	38	30.2	37.6	8.2	12	10	10
SAE200/80/2	2	Ø10*	5	11.7	15.5	8.4	11.1	2.8	4.3	5	5
SAE250/80/2	2	Ø10*	7	15.1	19	11.7	15.5	3.9	5.9	5	5
SAEL300/80/2	4	Ø12*	8	16.8	22.2	13.4	17.7	4.3	6.6	10	10
SAEL340/80/1	4	Ø12*	10	20.1	26.6	16.8	22.2	5.3	8	10	10
SAE380/80/2	4	Ø12*	12	23.5	31	20.1	26.6	6.2	9.4	10	10
SAE440/80/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.4	11	10	10
SAE500/80/2	4	Ø12*	18	33.5	38	30.2	37.7	8.4	12.3	10	10
SAE380/90/2	4	Ø12*	12	23.5	31	20.1	26.6	6.4	9.8	10	10
SAE440/90/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.7	11.6	10	10
SAE500/90/2	4	Ø12*	18	33.5	38	30.2	37.7	8.8	13.1	10	10
SAE380/92/2	4	Ø12*	12	23.5	31	20.1	26.6	6.5	9.8	10	10
SAE440/95/2	4	Ø12*	15	28.5	37.7	25.1	33.2	7.8	11.8	10	10
SAE500/95/2	4	Ø12*	18	33.5	38	30.2	37.7	9	13.4	10	10
SAEL300/100	4	Ø12*	8	16.8	22.2	13.4	17.7	4.5	7	10	10
SAE380/100/2	4	Ø12*	12	23.5	31	20.1	26.6	6.6	10.1	10	10
SAE440/100/1	4	Ø12*	15	28.5	37.7	25.1	33.2	7.9	12	10	10
SAE500/100/2	4	Ø12*	18	33.5	38	30.2	37.7	9.1	13.7	10	10
SAEL500/115	4	Ø12*	16	30.2	38	26.8	35.5	8.6	13	10	10
SAEL380/120/2	4	Ø12*	10	20.1	26.6	16.8	22.2	5.7	8.9	10	10
SAEL440/120	4	Ø12*	13	25.1	33.2	21.8	28.8	7.2	11.1	10	10
SAEL500/120/2	4	Ø12*	16	30.2	38	26.8	35.5	8.6	13.2	10	10
SAEL440/136	4	Ø12*	13	25.1	33.2	21.8	28.8	7.4	11.4	10	10
SAEL500/140/2	4	Ø12*	16	30.2	38	26.8	35.5	8.9	13.7	10	10
SAEL500/150	4	Ø12*	16	30.2	38	26.8	35.5	9	13.9	10	10

* 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.

PLAATSING

Bevestigingen

Op gedragen bouwdeel :

- Ringnagels CNA Ø 4,0 x 50 mm.
- Ringnagels CNA Ø 4,0 x 35 mm voor diktes kleiner dan 64 mm.
- Schroeven CSA Ø 5,0 x 40 mm.
- Schroeven CSA Ø 5,0 x 35 mm voor diktes kleiner dan 60 mm.

Op drager :

Houten ondergrond :

- Ringnagels CNA Ø 4,0 x 50 mm.
- Ringnagels CNA Ø 4,0 x 35 mm voor diktes kleiner dan 64 mm.
- Schroeven CSA Ø 5,0 x 40 mm.
- Schroeven CSA Ø 5,0 x 35 mm voor diktes kleiner dan 60 mm.

Stalen ondergrond :

- Bouten Ø 12 of Ø 10 mm volgens uitzetmaat (de boutdiameter mag niet meer dan 2 mm kleiner zijn dan de boorgatdiameter).

Betonnen ondergrond :

- Mechanische verankering : doorsteekanker WA M10-78/5 (voor SAE200 en 250) en type WA M12-104/5 (voor SAE300, 340, 380, 440 en 500).
- Chemische verankering : hars AT-HP met draadstang LMAS M10-120/25 (voor SAE200 en 250) en LMAS M12-150/35 (voor SAE300, 340, 380, 440 en 500).

Hol metselwerk : (belastingsterkte van verankeringen controleren)

- Hars AT-HP of POLY-GP + draadstang LMAS M10-120/25 + zeefhuls SH M16-130 (voor SAE200 en 250).
- Hars AT-HP of POLY-GP + draadstang LMAS M12-150/35 + zeefhuls SH M20-85 (voor SAE300, 340, 380, 440 en 500).

Plaatsing

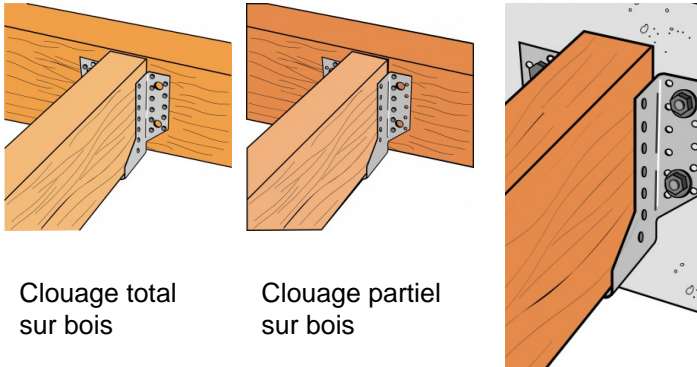
Op hout :

1. Teken de plaats van de gedragen balk af op de drager,
1. Presenteer de ophangbeugel en bevestig de flenzen voorlopig aan weerszijden,
2. Verstel de ophangbeugel volgens de aftekeningen, De ophangbeugel moet bovenaan iets meer open staan dan onderaan om het plaatsen van de gedragen balk te vergemakkelijken,
2. Voltooi de bevestiging op elke flens,
3. Presenteer de gedragen balk in de ophangbeugel
3. Bevestig de gedragen balk op de ophangbeugel,
4. Op hout zijn er twee soorten vernageling: volledig of gedeeltelijk,

Op beton :

1. Methode 1: Teken de plaats van de boorgaten af aan de hand van de tabel met de posities van de beschikbare boorgaten op de technische fiche,
1. Methode 2: Teken de plaats van de balk af op de ondergrond, presenteer de ophangbeugel en duid de middelpunten van de boorgaten aan,
2. Boor in de ondergrond met een passende boor,

2. Presenteer de ophangbeugel en bevestig hem op de ondergrond met doorsteekankers.
3. Presenteer de gedragen balk in de ophangbeugel
3. Bevestig de gedragen balk op de ophangbeugel,



Clouage total
sur bois

Clouage partiel
sur bois

Fixation sur
support rigide

TECHNISCHE OPMERKINGEN