



De ophangbeugel SBE heeft een vergelijkbare belastingsterkte als het 2 mm dikke model. Dit is de eerste ophangbeugel waarvan het ontwerp voldoet aan de eisen van Eurocode 5.



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

KENMERKEN

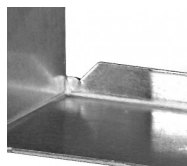
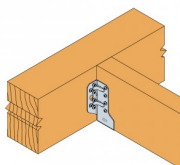


Materiaal

- Verzinkt staal S250GD + Z275 overeenkomstig NF EN 10346.
- Dikte 1,5 mm.

Voordelen

- Ophangbeugel met optimaal ontwerp voor snellere montage (20% minder nagels vergeleken met SAe),
- Speed-prong voor meer montagegemak op houten ondergrond,
- Kleinere dikte zonder sterkteverlies,
- Kan in de breedte worden gevouwen naar keuze tussen 76 en 150 mm.



TOEPASSINGEN

Ondergrond

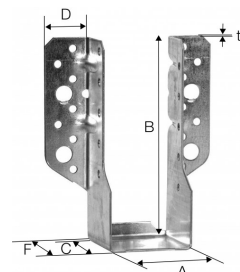
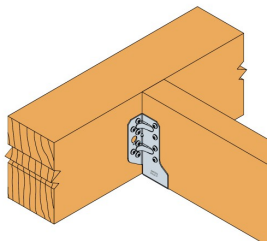
- **Drager** : massief hout, compositiehout, gelijmd gelamineerd hout, beton, staal.
- **Gedragen bouwdee I** : massief hout, compositiehout, gelijmd gelamineerd hout.

Toepassingsgebieden

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

TECHNISCHE GEGEVENS

Afmetingen



Referentie	Afmetingen balk			Afmetingen [mm]						Boorgat op drager		Boorgat op gedragen
	Breedte	Hoogte		A	B	C	Diameter Ø	H	Dikte	Ø5 [mm]	Ø11 [mm]	Ø5 [mm]
		Min.	Max.									
SBE32/99	32	112	149	32	99	55	30	54	1.5	12	2	6
SBE32/114	32	127	171	32	114	55	30	54	1.5	12	2	8
SBE38/96	38	109	144	38	96	55	30	54	1.5	12	2	6
SBE38/111	38	124	167	38	111	55	30	54	1.5	12	2	8
SBE38/141	38	154	212	38	141	55	30	54	1.5	14	2	10
SBE38/171	38	184	257	38	171	55	30	54	1.5	18	4	12
SBE40/95	40	108	143	40	95	55	30	54	1.5	12	2	6
SBE40/110	40	123	165	40	110	55	30	54	1.5	12	2	8
SBE40/140	40	153	210	40	140	55	30	54	1.5	14	2	10
SBE45/93	45	105	139	45	92.5	55	30	54	1.5	12	2	6
SBE45/108	45	120	162	45	107.5	55	30	54	1.5	12	2	8
SBE45/138	45	150	207	45	137.5	55	30	54	1.5	14	2	10
SBE45/168	45	180	252	45	167.5	55	30	54	1.5	18	4	12
SBE48/91	48	104	137	48	91	55	30	54	1.5	12	2	6
SBE48/106	48	119	159	48	106	55	30	54	1.5	12	2	8
SBE48/136	48	149	204	48	136	55	30	54	1.5	14	2	10
SBE48/166	48	179	249	48	166	55	30	54	1.5	18	4	12
SBE51/90	51	102	135	51	89.5	55	30	54	1.5	12	2	6
SBE51/105	51	117	157	51	104.5	55	30	54	1.5	12	2	8
SBE51/135	51	147	202	51	134.5	55	30	54	1.5	14	2	10
SBE51/165	51	177	247	51	164.5	55	30	54	1.5	18	4	12
SBE60/85	60	98	128	60	85	55	30	54	1.5	12	2	6
SBE60/100	60	113	150	60	100	55	30	54	1.5	12	2	8
SBE60/130	60	143	195	60	130	55	30	54	1.5	14	2	10
SBE60/160	60	173	240	60	160	55	30	54	1.5	18	4	12
SBE64/83	64	96	125	64	83	55	30	54	1.5	12	2	6
SBE64/98	64	111	147	64	98	55	30	54	1.5	12	2	8
SBE64/128	64	141	192	64	128	55	30	54	1.5	14	2	10
SBE64/158	64	171	237	64	158	55	30	54	1.5	18	4	12
SBE70/95	70	108	143	70	95	55	30	54	1.5	12	2	8
SBE70/125	70	138	188	70	125	55	30	54	1.5	14	2	10
SBE70/155	70	168	233	70	155	55	30	54	1.5	18	4	12
SBE73/124	73	136	186	73	123.5	55	30	54	1.5	14	2	10
SBE73/154	73	166	231	73	153.5	55	30	54	1.5	18	4	12
SBE76/122	76	135	183	76	122	55	30	54	1.5	14	2	10
SBE76/152	76	165	228	76	152	55	30	54	1.5	18	4	12

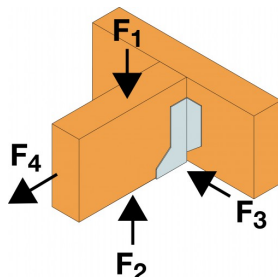
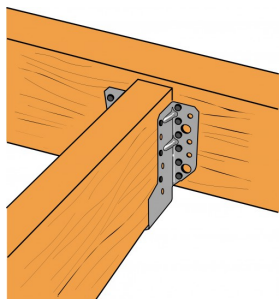
Referentie	Afmetingen balk			Afmetingen [mm]						Boorgat op drager		Boorgat op gedragen
	Breedte	Hoogte		A	B	C	Diameter Ø	H	Dikte	Ø5 [mm]	Ø11 [mm]	Ø5 [mm]
		Min.	Max.									
SBE80/120	80	133	180	80	120	55	30	54	1.5	14	2	10
SBE80/150	80	163	225	80	150	55	30	54	1.5	18	4	12
SBE90/145	90	158	218	90	145	55	30	54	1.5	18	4	12
SBE98/141	98	154	212	98	141	55	30	54	1.5	18	4	12
SBE100/140	100	153	210	100	140	55	30	54	1.5	18	4	12

Karakteristieke waarden - Hou op hout - Volledige vernageling

Referentie	Karakteristieke waarden voor hout / hout - Volledige vernageling										
	Bevestigingen		Karakteristieke waarden - Hou 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	
SBE32/99	12	6	10.2	-	3.9	-	4.7	-	4.9	-	
SBE32/114	12	8	11.9	-	4.2	-	5.5	-	4.9	-	
SBE38/96	12	6	9.8	-	4.5	-	4.7	-	4.9	-	
SBE38/111	12	8	11.5	-	4.9	-	5.5	-	4.9	-	
SBE38/141	14	10	16	-	5.7	-	6.6	-	6.1	-	
SBE38/171	18	12	22.4	-	6.4	-	7.5	-	7.3	-	
SBE40/95	12	6	9.6	-	4.7	-	4.7	-	4.9	-	
SBE40/110	12	8	11.4	-	5.2	-	5.5	-	4.9	-	
SBE40/140	14	10	15.9	-	6	-	6.6	-	6.1	-	
SBE45/93	12	6	9.2	-	5.2	-	4.7	-	4.9	-	
SBE45/108	12	8	11	-	5.7	-	5.5	-	4.9	-	
SBE45/138	14	10	15.6	-	6.7	-	6.6	-	6.1	-	
SBE45/168	18	12	22	-	7.5	-	7.5	-	7.3	-	
SBE48/91	12	8	8.9	-	5.5	-	4.7	-	4.9	-	
SBE48/106	12	8	10.8	-	6.1	-	5.5	-	4.9	-	
SBE48/136	14	10	15.5	-	7.1	-	6.6	-	6.1	-	
SBE48/166	18	12	21.8	-	7.9	-	7.5	-	7.3	-	
SBE51/90	12	8	8.7	13.3	5.8	5.8	4.7	6.8	4.9	7.8	
SBE51/105	12	8	10.6	15.9	6.4	6.4	5.5	7.9	4.9	7.8	
SBE51/135	14	10	15.3	22.3	7.4	7.4	6.6	9.6	6.1	9.8	
SBE51/165	18	12	21.6	31	8.4	8.4	7.5	11	7.3	11.7	
SBE60/85	12	6	7.9	12.2	6.6	6.6	4.7	6.8	4.9	7.8	
SBE60/100	12	8	9.9	15	7.3	7.3	5.5	7.9	4.9	7.8	
SBE60/130	14	10	14.7	21.6	8.6	8.6	6.6	9.6	6.1	9.8	
SBE60/160	18	12	21	30.4	9.7	9.7	7.5	11	7.3	11.7	
SBE64/83	12	6	7.6	11.7	6.9	6.9	4.7	6.8	4.9	7.8	
SBE64/98	12	8	9.6	14.6	7.7	7.7	5.5	7.9	4.9	7.8	
SBE64/128	14	10	14.4	21.3	9.1	9.1	6.6	9.6	6.1	9.8	
SBE64/158	18	12	20.8	30.1	10.3	10.3	7.5	11	7.3	11.7	
SBE70/95	12	8	9.1	14	8.2	8.2	5.5	7.9	4.9	7.8	
SBE70/125	14	10	14	20.8	9.8	9.8	6.6	9.6	6.1	9.8	
SBE70/155	18	12	20.4	29.6	11.1	11.1	7.5	11	7.3	11.7	
SBE73/124	14	10	13.8	20.5	10.1	10.1	6.6	9.6	6.1	9.8	
SBE73/154	18	12	20.2	29.3	11.5	11.5	7.5	11	7.3	11.7	
SBE76/122	14	10	13.6	20.2	10.5	10.5	6.6	9.6	6.1	9.8	
SBE76/152	18	12	20	29.1	11.9	11.9	7.5	11	7.3	11.7	
SBE80/120	14	10	13.3	19.8	10.5	10.9	6.6	9.6	6.1	9.8	
SBE80/150	18	12	19.6	28.7	12.5	12.5	7.5	11	7.3	11.7	
SBE90/145	18	12	18.9	27.8	13.7	13.7	7.5	11	7.3	11.7	
SBE98/141	18	12	18.2	27	14.7	14.7	7.5	11	7.3	11.7	
SBE100/140	18	12	18.1	26.8	15	15	7.5	11	7.3	11.7	

A, B and C dimensions are the internal dimensions of the joist hanger.

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	
SBE32/99	8	4	7.2	-	3.9	-	1.9	-	4.9	-
SBE32/114	8	4	8.5	-	4.2	-	2.1	-	4.9	-
SBE38/96	8	4	6.9	-	4.5	-	1.9	-	4.9	-
SBE38/111	8	4	8.3	-	4.9	-	2.1	-	4.9	-
SBE38/141	10	6	11.5	-	5.7	-	2.5	-	6.1	-
SBE38/171	12	6	13.4	-	6.4	-	2.9	-	7.3	-
SBE40/95	8	4	6.8	-	4.7	-	1.9	-	4.9	-
SBE40/110	8	4	8.2	-	5.2	-	2.1	-	4.9	-
SBE40/140	10	6	11.5	-	6	-	2.5	-	6.1	-
SBE45/93	8	4	6.5	-	5.2	-	1.9	-	4.9	-
SBE45/108	8	4	7.9	-	5.7	-	2.1	-	4.9	-
SBE45/138	10	6	11.2	-	6.7	-	2.5	-	6.1	-
SBE45/168	12	6	13.4	-	7.5	-	2.9	-	7.3	-
SBE48/91	8	4	6.3	-	5.5	-	1.9	-	4.9	-
SBE48/106	8	4	7.8	-	5.7	-	2.1	-	4.9	-
SBE48/136	10	6	11.1	-	7.1	-	2.5	-	6.1	-
SBE48/166	12	6	13.4	-	7.9	-	2.9	-	7.3	-
SBE51/90	8	4	6.2	9.4	5.7	5.8	1.9	2.6	4.9	7.5
SBE51/105	8	4	7.7	11.4	5.7	6.4	2.1	2.7	4.9	7.5
SBE51/135	10	6	11	16	7.4	7.4	2.5	3.3	6.1	9.8
SBE51/165	12	6	13.4	17.7	8.4	8.4	2.9	3.8	7.3	11.3
SBE60/85	8	4	5.6	8.6	5.7	6.6	1.9	2.6	4.9	7.5
SBE60/100	8	4	7.2	10.8	5.7	7.3	2.1	2.7	4.9	7.5
SBE60/130	10	6	10.6	15.5	8.1	8.6	2.5	3.3	6.1	9.8
SBE60/160	12	6	13.4	17.7	9.7	9.7	2.9	3.8	7.3	11.3
SBE64/83	8	4	5.4	8.3	5.7	6.9	1.9	2.6	4.9	7.5
SBE64/98	8	4	7	10.6	5.7	7.7	2.1	2.7	4.9	7.5
SBE64/128	10	6	10.4	15.3	8.1	9.1	2.5	3.3	6.1	9.8
SBE64/158	12	6	13.4	17.7	10.1	10.3	2.9	3.8	7.3	11.3
SBE70/95	8	4	6.7	10.1	5.7	8.2	2.1	2.7	4.9	7.5
SBE70/125	10	6	10.1	14.9	8.1	9.8	2.5	3.3	6.1	9.8
SBE70/155	12	6	13.4	17.7	10.1	11.1	2.9	3.8	7.3	11.3
SBE73/124	10	6	9.9	14.7	8.1	10.1	2.5	3.3	6.1	9.8
SBE73/154	12	6	13.4	17.7	10.1	11.5	2.9	3.8	7.3	11.3
SBE76/122	10	6	9.8	14.5	8.1	10.5	2.5	3.3	6.1	9.8
SBE76/152	12	6	13.4	17.7	10.1	11.9	2.9	3.8	7.3	11.3
SBE80/120	10	6	9.5	14.2	8.1	10.9	2.5	3.3	6.1	9.8
SBE80/150	12	6	13.4	17.7	10.1	12.5	2.9	3.8	7.3	11.3

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
SBE90/145	12	6	13	17.7	10.1	13.3	2.9	3.8	7.3	11.3
SBE98/141	12	6	12.6	17.7	10.1	13.3	2.9	3.8	7.3	11.3
SBE100/140	12	6	12.5	17.7	10.1	13.3	2.9	3.8	7.3	11.3

A, B and C dimensions are the internal dimensions of the joist hanger.

Karakteristieke waarden - Hout op beton of staal



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	Type	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	
SBE32/99	2	Ø10*	6	CNA**	13.4	-	3.9	-	5.6	-	5
SBE32/114	2	Ø10*	8	CNA**	14.2	-	4.2	-	7.1	-	5
SBE38/96	2	Ø10*	6	CNA**	13.4	-	4.5	-	6.7	-	5
SBE38/111	2	Ø10*	8	CNA**	14.2	-	4.9	-	8.4	-	5
SBE38/141	2	Ø10*	10	CNA**	14.2	-	5.7	-	7.9	-	5
SBE38/171	4	Ø10*	12	CNA**	22.7	-	6.4	-	12.6	-	10
SBE40/95	2	Ø10*	6	CNA**	13.4	-	4.7	-	7	-	5
SBE40/110	2	Ø10*	8	CNA**	14.2	-	5.2	-	8.9	-	5
SBE40/140	2	Ø10*	10	CNA**	14.2	-	6	-	8.3	-	5
SBE45/93	2	Ø10*	6	CNA**	13.4	-	5.2	-	7.9	-	5
SBE45/108	2	Ø10*	8	CNA**	14.2	-	5.7	-	10	-	5
SBE45/138	2	Ø10*	10	CNA**	14.2	-	6.7	-	9.4	-	5
SBE45/168	4	Ø10*	12	CNA**	22.7	-	7.5	-	12.6	-	10
SBE48/91	2	Ø10*	6	CNA**	13.4	-	5.5	-	8.4	-	5
SBE48/106	2	Ø10*	8	CNA**	14.2	-	6.1	-	10.7	-	5
SBE48/136	2	Ø10*	10	CNA**	14.2	-	7.1	-	10	-	5
SBE48/166	4	Ø10*	12	CNA**	22.7	-	7.9	-	12.6	-	10
SBE51/90	2	Ø10*	6	CNA**	13.4	14.2	5.8	5.8	8.9	11.8	5
SBE51/105	2	Ø10*	8	CNA**	14.2	14.2	6.4	6.4	11.3	15	5
SBE51/135	2	Ø10*	10	CNA**	14.2	14.2	7.4	7.4	10.6	14.1	5
SBE51/165	4	Ø10*	12	CNA**	22.7	22.7	8.4	8.4	12.6	14.8	10
SBE60/85	2	Ø10*	6	CNA**	13.4	14.2	6.6	6.6	10.5	13.9	5
SBE60/100	2	Ø10*	8	CNA**	14.2	14.2	7.3	7.3	13.4	17.7	5
SBE60/130	2	Ø10*	10	CNA**	14.2	14.2	8.6	8.6	12.5	16.6	5
SBE60/160	4	Ø10*	12	CNA**	22.7	22.7	9.7	9.7	11	13.2	10
SBE64/83	2	Ø10*	6	CNA**	13.4	14.2	6.9	6.9	11.2	14.9	5
SBE64/98	2	Ø10*	8	CNA**	14.2	14.2	7.7	7.7	14.3	18.9	5
SBE64/128	2	Ø10*	10	CNA**	14.2	14.2	9.1	9.1	13.4	12.8	5
SBE64/158	4	Ø10*	12	CNA**	22.7	22.7	10.3	10.3	12.6	14.8	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	Type	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	CNA4,0x35	CNA4,0x50	
SBE70/95	2	Ø10*	8	CNA**	14.2	14.2	8.2	8.2	15.6	13.2	5
SBE70/125	2	Ø10*	10	CNA**	14.2	14.2	9.8	9.8	14.6	13.8	5
SBE70/155	4	Ø10*	12	CNA**	22.7	22.7	11.1	11.1	12.6	14.8	10
SBE73/124	2	Ø10*	10	CNA**	14.2	14.2	10.1	10.1	15.2	14.1	5
SBE73/154	4	Ø10*	12	CNA**	22.7	22.7	11.5	11.5	12.6	14.8	10
SBE76/122	2	Ø10*	10	CNA**	14.2	14.2	10.5	10.5	15.9	14.4	5
SBE76/152	4	Ø10*	12	CNA**	22.7	22.7	11.9	11.9	12.6	14.8	10
SBE80/120	2	Ø10*	10	CNA**	14.2	14.2	10.9	10.9	11.9	14.7	5
SBE80/150	4	Ø10*	12	CNA**	22.7	22.7	12.5	12.5	12.6	14.8	10
SBE90/145	4	Ø10*	12	CNA**	22.7	22.7	13.7	13.7	12.6	14.8	10
SBE98/141	4	Ø10*	12	CNA**	22.7	22.7	14.7	14.7	12.6	14.8	10
SBE100/140	4	Ø10*	12	CNA**	22.7	22.7	15	15	12.6	14.8	10

A, B and C dimensions are the internal dimensions of the joist hanger.

Load capacities on concrete shown in this table are given in the case of a full slab fixing. In the context of a different application, it is advisable to the designer to ensure the good anchoring performance (a help for dimensioning is available on our Anchor Designer software, which can be downloaded for free on this website).

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

Op drager :

Houten ondergrond :

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

Stalen ondergrond :

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

Betonnen ondergrond :

- Mechanische verankering Ø 10: doorsteekanker WA M10-78/5.
- Chemische verankering Ø 10: hars AT-HP + draadstang LMAS M10-120/25.

Hol metselwerk: (belastingsterkte van verankeringen controleren)

- Chemische verankering : hars AT-HP of POLY-GP + draadstang LMAS M10-120/25 + zeefhuls SH M16-130.

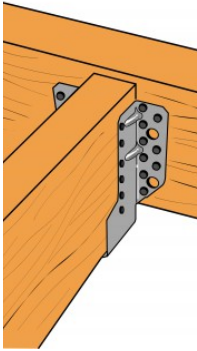
Plaatsing

Sur Bois :

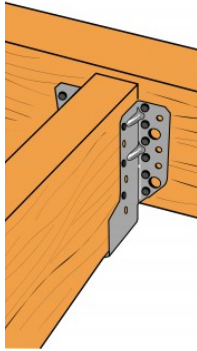
1. Tracer l'emplacement de la poutre portée sur le porteur,
1. Présenter le sabot et préfixer les ailes de chaque côté,
2. Ajuster le sabot par rapport aux tracés : le sabot doit être légèrement plus ouvert en haut que en bas pour faciliter l'installation de la poutre portée,
2. Finaliser la fixation sur chaque aile,
3. Présenter la poutre portée dans le sabot et la fixer en clouage partiel ou total.

Sur Béton :

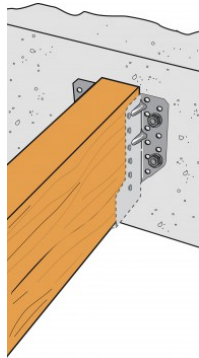
1. Méthode 1 : Tracer l'emplacement des perçages en appliquant le sabot sur la poutre,
1. Méthode 2 : Tracer l'emplacement de la poutre sur le support, présenter le sabot et repérer les centres des perçages,
2. Percer le support avec un forêt adapté,
2. Présenter le sabot et fixer le sur le support avec des goujons d'ancrages,
3. Présenter la poutre portée dans le sabot avant de la fixer.



Clouage total
sur bois



Clouage partiel
sur bois



Fixation sur
support rigide

