Technical Sheet

BSIN
Internal Flange Face Fix Hanger

SAE and SAI ranges are heavy-duty hangers designed for applications requiring additional strength.
SAE hangers have bolt holes for 12mm fasteners into the face.

SAE Timber Bolted capacity to be determined according to the relevant standards. Do not exceed the load values given in the Bolt Attachment table.
The hanger depth is to be at least 60% of the carried member depth to prevent rotation, unless additional lateral restraint is added to the top of the carried member.



Features

Material

Pre-galvanised mild steel.

Advantages

Quick and simple installation.

Applications

Support

Solid Timber
I-Joists
Steel

Intend Use

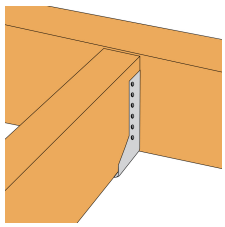
Solid sawn timber joists.
Purlins.



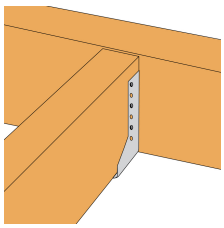
SAI Internal Flange Hanger



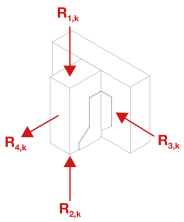
Internal Flange Face Fix Hanger SAIL



Full nailing



Partial Nailing

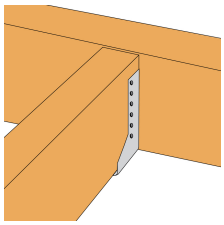




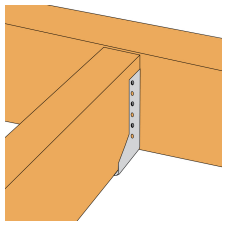
SAI Internal Flange Hanger



Internal Flange Face Fix Hanger SAIL



Full nailing



Partial Nailing

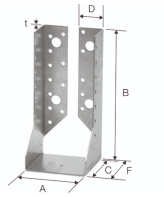
Technical Sheet

BSIN
Internal Flange Face Fix Hanger

SIMPSON Strong-Tie

Technical Data

Product Dimensions

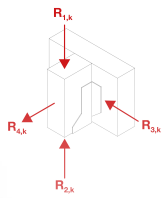


Reference	Connector Dimensions													
	Other		Timber size[mm]				Product Dimensions[mm]						Header holes	Joist holes
	Qty per Box	Weight[kg]	Height		Width		A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	t[mm]	Round	Round
			Min[mm]	Max. [mm]	Min[mm]	Max. [mm]							Ø5[mm]	Ø5[mm]
BSIN40/105	50	0.28	115	158	38	40	40	105	76	17.5	82	2	6	6
BSIN45/78	50	0.22	88	116	43	45	45	77.5	76	17.5	82	2	4	4
BSIN45/127	50	0.4	138	191	43	45	45	127.5	84	18.5	86	2	8	8
BSIN48/126	50	0.36	136	189	46	48	48	126	84	18.5	86	2	8	8
BSIN48/166	40	0.44	186	276	46	48	48	166	84	18.5	86	2	10	10
BSIN51/100	50	0.28	110	149	49	51	51	99.5	76	17.5	82	2	6	6
BSIN60/95	50	0.28	105	143	58	60	60	95	76	17.5	82	2	6	6
BSIN60/160	40	0.44	180	266	58	60	60	160	84	18.5	86	2	10	10
BSIN64/118	50	0.36	128	177	62	64	64	118	76	34	82	2	16	9
BSIN76/112	50	0.36	122	168	74	76	76	112	76	34	82	2	16	9
BSIN80/110	50	0.36	120	165	78	80	80	110	76	34	82	2	16	9
BSIN80/130	40	0.4	140	195	78	80	80	130	76	34	82	2	16	10
BSIN80/150	40	0.44	170	250	78	80	80	150	76	34	82	2	20	12
BSIN80/180	30	0.52	190	270	78	80	80	180	76	34	82	2	26	15
BSIN80/210	30	0.56	220	315	78	80	80	210	76	34	82	2	32	18
BSIN90/145	40	0.44	165	240	88	90	90	145	76	34	82	2	20	12
BSIN98/141	40	0.44	155	218	96	98	98	141	76	34	82	2	20	12
BSIN100/100	30	0.38	110	150	98	100	100	100	76	34	82	2	12	8
BSIN100/140	40	0.44	150	210	98	100	100	140	76	34	82	2	20	12
BSIN100/170	30	0.52	180	255	98	100	100	170	76	34	82	2	26	15
BSIN100/200	30	0.56	210	300	98	100	100	200	76	34	82	2	32	18
BSIN115/163	30	0.58	172	244	113	115	115	162.5	76	34	82	2	26	15
BSIN115/193	30	0.65	202	289	113	115	115	192.5	76	34	82	2	32	16
BSIN120/130	30	0.44	140	195	118	120	120	130	76	34	82	2	20	12
BSIN120/160	30	0.58	170	240	118	120	120	160	76	34	82	2	26	15
BSIN120/190	30	0.65	200	285	118	120	120	190	76	34	82	2	32	18
BSIN140/120	40	0.49	143	180	138	140	140	120	84	41.5	86	2	20	10
BSIN140/180	30	0.65	190	270	138	140	140	180	84	41.5	86	2	32	16

Combined load:
\sum\left(\frac{F_{i,d}} {R_{i,d}}\right)^2\le1

Technical Sheet

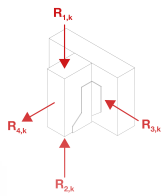
BSIN
Internal Flange Face Fix Hanger



Product capacities - Timber to timber - Full nailing

Product capacities - Timber to timber - Full nailing
See full table online ➡️

Reference	Number of Fasteners		imber - Full nailing									
	Header		cities - Timber C24[kN]									
			R3									
	Qty	Qty	CNA4.0x35	CNA4,0x40	CNA4.0x50	CNA4,0x60	CNA4.0x35	CNA4,0x40	CNA4.0x50	CNA4,0x60	CNA4.0x35	CNA4,0x40
BSIN40/105	6.0	6	4.4	5.1	-	-	2.8	3.4	-	-	0.7	0.7



Product capacities - Timber to timber - Partial nailing

Product capacities - Timber to timber - Partial nailing
See full table online ➡️

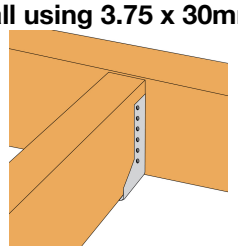
Reference																
													R4,k			
	CNA 4.0x35	CNA 4.0x40	CNA 4.0x50	CNA 4.0x60	CNA 4.0x35	CNA 4.0x40	CNA 4.0x50	CNA 4.0x60	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	CNA4.0x60	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	

BSIN
Internal Flange Face Fix Hanger

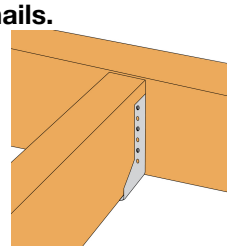
Installation

Fasteners

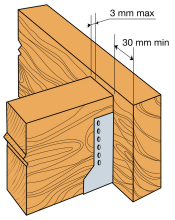
Install using 3.75 x 30mm square twist nails.



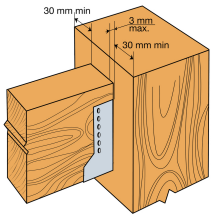
Full nailing



Partial Nailing



Installation on joist



Installation on Post

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