



SAE and SAI ranges are heavy-duty hangers designed for applications requiring additional strength.



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

FEATURES

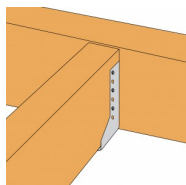
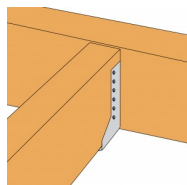


Material

Pre-galvanised mild steel.

Advantages

Quick and simple installation.



APPLICATIONS

Support

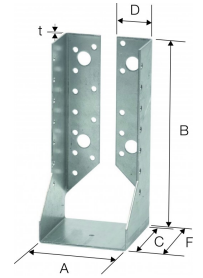
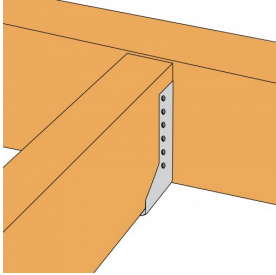
Solid Timber
I-Joists
Steel

Intend Use

Solid sawn timber joists.
Purlins.

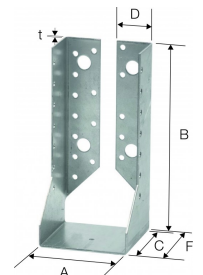
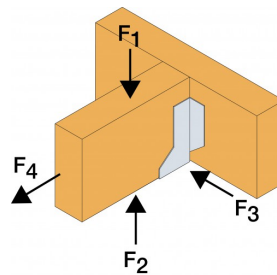
TECHNICAL DATA

Product Dimensions



References	Joist Size [mm]				Product Dimensions [mm]						Joist holes
	Width		Height		A	B	C	D	F	t	Ø5
	Min	Max.	Min	Max.							
SAI380/90	88	2x45	155	218	90	145	76	34	82	2	12
SAI500/91	2x45	91	215	308	91	205	76	34	82	2	18
SAI620/91	2x45	91	275	398	91	265	75	42	82	2	22
SAI380/100	98	100	150	210	100	140	76	34	82	2	12
SAI500/100	98	100	210	300	100	200	76	34	82	2	18
SAI620/100	98	100	270	390	100	260	75	42	77	2	22
SAI620/116	114	116	262	378	116	252	75	42	77	2	22
SAI500/125	123	125	198	282	125	188	84	41.5	86	2	18
SAI620/125	123	125	258	372	125	248	75	42	77	2	22
SAI500/150	148	150	185	263	150	175	84	41.5	86	2	18
SAI620/150	148	150	245	353	150	235	75	42	77	2	22
SAI590/200	198	200	205	293	200	195	78	43	84	2	20

Product Capacities



References	Characteristic capacities - Timber to timber - Full nailing							
	Number of Fasteners		Product characteristic capacities - Timber C24 [kN]			Safe Working Loads [kN]		
	Header	Joist	R _{1,k}		R _{2,k}	R _{1,SWL,Long term}		Short Term Uplift
	Qty	Qty	N3.75x30 - C16 Header	N3.75x30 - C24 Header	N3.75x30 - C16 Joist	C16 header N3.75x30	C24 header N3.75x30	C16 Joist N3.75x30
SAI380/90	20	12	19	20	10.2	7.9	10	5.1
SAI500/91	32	18	27.4	28	15.2	11.4	14	7.6
SAI620/91	40	22	34.9	35	18.6	14.6	17.5	9.3
SAI380/100	20	12	19	20	10.2	7.9	10	5.1

References	Characteristic capacities - Timber to timber - Full nailing							
	Number of Fasteners		Product characteristic capacities - Timber C24 [kN]			Safe Working Loads [kN]		
	Header	Joist	R _{1,k}		R _{2,k}	R _{1,SWL,Long term}		Short Term Uplift
	Qty	Qty	N3.75x30 - C16 Header	N3.75x30 - C24 Header	N3.75x30 - C16 Joist	C16 header N3.75x30	C24 header N3.75x30	C16 Joist N3.75x30
SAI500/100	32	18	27.4	28	15.2	11.4	14	7.6
SAI620/100	40	22	34.9	35	18.6	14.6	17.5	9.3
SAI620/116	40	22	34.9	35	18.6	14.6	17.5	9.3
SAI500/125	32	18	27.4	28	13.6	11.4	14	6.8
SAI620/125	40	22	34.9	35	18.6	14.6	17.5	9.3
SAI500/150	32	18	27.4	28	13.6	11.4	14	6.8
SAI620/150	40	22	34.9	35	18.6	14.6	17.5	9.3
SAI590/200	30	20	25.8	26.5	16.9	10.7	13.2	8.5

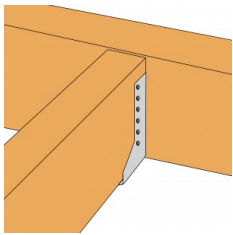
INSTALLATION

Fasteners

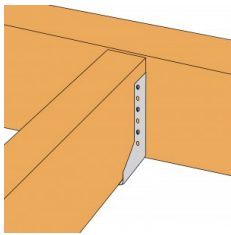
Install using 3.75 x 30mm square twist nails.

Installation

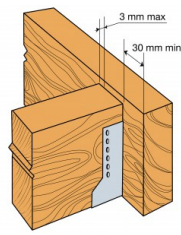
- Use all specified fasteners.
- Check that the header can accommodate the specified fasteners.
- Each SDE must be nailed through the holes underneath the joist.



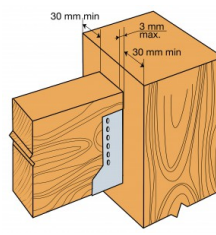
Full nailing



Partial Nailing



Installation on
joist



Installation on
Post