



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.

Advantage

Quick and simple installation.







APPLICATIONS

Header member

- Solid Timber
- I-Joists
- Steel

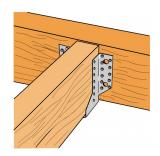
For use with

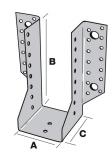
- Solid sawn timber joists.
- Purlins.



TECHNICAL DATA

Full Nailing on timber





	Joist	Dimensions [mm]				Fasteners			Safe Working Loads [kN]			Characterstic values [kN]			
References	Width [mm]	А	В	С	Th.	Qty		Type	Short term Uplift	_	term nload	Uplift (Joist	Download		
						Header	Joist	,, ,,	(Joist (C16)	16 Heade	C24 Header	`	16 Head€	24 Heade	
SAE690X	201 - 300	201 - 300	195	78	2	30	20	N3.75x30	8.5	12.3	13.1	16.9	29.4	31.4	
SAE380/38	38	38	171	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/38		38	231	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/38		38	291	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE250/46		46	102	84	2	12	7	N3.75x30	3	5.3	5.6	5.9	12.7	13.5	
SAE380/45	45	45	167.5	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/46		46	227	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/44		44	288	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE250/50		50	100	84	2	12	7	N3.75x30	3	5.3	5.6	5.9	12.7	13.5	
SAE380/50	47-50	50	165	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/50		47-30	50	225	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8
SAE620/50		50	285	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE380/64		64	158	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/64		64	218	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/64	63	64	278	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE380/66		66	157	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/66		66	217	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE380/100		100	140	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/100	100	100	200	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/100		100	260	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE620/116	115	116	252	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE500/125	125	125	187.5	84	2	30	16	N3.75x30	6.8	12.3	13.1	13.6	29.4	31.4	
SAE620/125		125	247.5	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAEL500/150	150	150	175	84	2	30	16	N3.75x30	6.8	12.3	13.1	13.6	29.4	31.4	
SAE620/150		150	235	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE590/200	200	200	195	78	2	30	20	N3.75x30	8.5	12.3	13.1	16.9	29.4	31.4	
SAE250/76		76	87	84	2	12	7	N3.75x30	3	5.3	5.6	5.9	12.7	13.5	
SAE380/76	75-76	76	152	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/76		76	212	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/76		76	272	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	
SAE380/92	88-2 Ply 44	92	144	84	2	22	12	N3.75x30	5.1	8.4	9	10.2	20.3	21.6	
SAE500/90		90	205	84	2	34	18	N3.75x30	7.6	14.8	15.8	15.2	35.5	37.8	
SAE620/91		91	264.5	75	2	40	22	N3.75x30	9.3	19.6	20.9	18.6	46.9	50.1	

Winchester Road Cardinal Point Tamworth Staffordshire B78 3HG Tél.: +44 1827 255600 / Fax: +44 1827 255616

SAE-SAEL - Face Fix Hangers

page 2/4



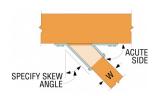
Dimensions A, B and C are for the interior of the hanger.

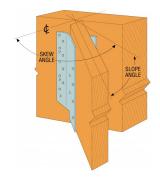
SAE Hangers - Bolt Attachment

References	Qty Fa	steners	Safe Working Loads [kN]							
	Support ⁴	Carried	Timber	Support	Masonry Support					
		Member ⁵	Long Term	Medium	2.8 N/mm ²	3.5 N/mm ²	7.0 N/mm ²	20 N/mm ²		
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		

- 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





References		Dimensio	ons [mm]			Safe Workinfg Load [kN]		
	Α	В	С	Th.	Qty		Type	Long Term
					Header	Joist	.) 0	Download
SAE380X	38-100	140-175	64	2	14	6	3.75x30	5.40
SAE500X	38-150	175-235	64	2	18	8	3.75x30	7.00
SAE620X	38-150	235-290	64	2	28	10	3.75x30	10.80

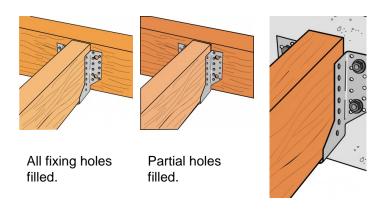
- 1. These hangers are based upon Composite Wood style SAE hangers and contain round and triangular nail holes only. (ie. No Bolt Holes).
- 2. SWL's are based upon a maximum nailing schedule—all round and triangular holes filled.
- 3. Skews right or left up to 67.5° and slopes up or down up to 45°. For 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, W = 63, H = 159, SKR = 15° (for no skewed/sloped options please specify skew = 0° & slope = 0°).



INSTALLATION

Fasteners

• Install using 3.75 x 30mm square twist nails.



Support on concrete.

TECHNICAL NOTES