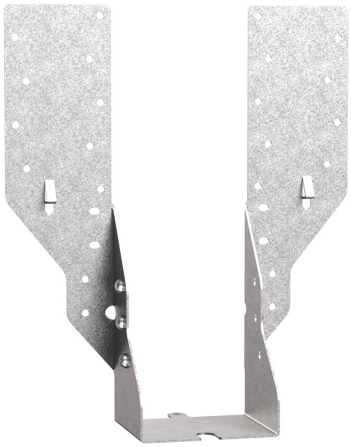
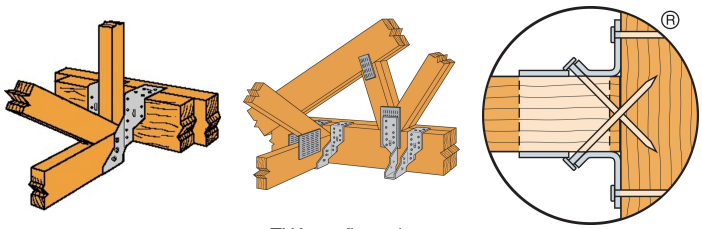
Technical Sheet

THA
Adjustable Truss Hanger

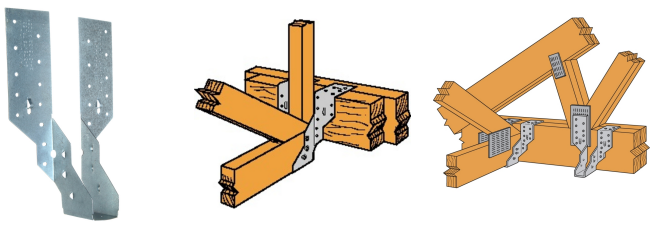
The THA is a one-piece joist hanger supporting trussed rafters and composite timbers from timber members.
The THA can be installed with a number of fixing options, for greater load capacity. See table below for fixing options.
Available in seat widths from 38mm to 100mm.

- *Location tab allows easier alignment to the carrying member.*
- *Choice of installation specifications to suit wrap-over or face fix.*
- *Speed prongs enable positioning of the hanger without nails before completing the install.*
- *Nailing schedules are stamped into the strap to provide the correct information to site operatives.*
- *The distinctive wide strap enhances the performance of the critical part of the connection by increasing the nail spacing and providing greater bearing area on the supporting girder.*





THA configurations.



THA configurations.

Features

Material

- Pre-galvanised mild steel

Avantages

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Applications

Suitable On

- **Solid sawn timber**
- **Engineered timber**

When to Use

- Trusses
- Joists

Technical Sheet

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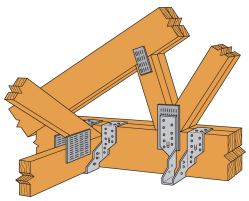
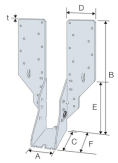
Technical Data

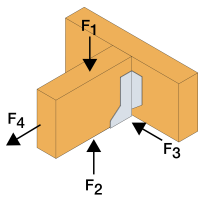
Product Dimensions





Reference	Connector Dimensions															
	Timber size[mm]		Joist dimensions - wrap over (N3.75x30 joist nails or N3.75x75 Double Shear Joist Nails)[mm]				Product Dimensions[mm]							Header holes	Joist holes	Other
	Height		Header		Joist dimensions - wrap over (N3.75x75 Nails throughout) [mm]		A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	t[mm]	Round	Type	Weight[kg]
	Min[mm]	Max. [mm]	Min	Max.	Min	Max.								Ø4.1		
THA38	38	197	38	122	38	147	38	226	62.5	59.5	114	64.5	1.2	22	6	0.205
THA44	44	197	44	122	44	147	44	223	62.5	59.5	111	64.5	1.2	22	6	0.205
THA50	50	197	50	122	50	147	50	220	62.5	59.5	108	64.5	1.2	22	6	0.205
THA75	75	197	75	122	75	147	75	232.5	62.5	59.5	120	64.5	1.2	22	6	0.227
THA100	100	197	100	122	100	147	100	220	62.5	59.5	108	64.5	1.2	22	6	0.227

Product capacities - Timber to timber - Face fix installation



Reference	Hanger capacity					
	Product capacities - Timber to timber - Face fix Installation					
	Number of Fasteners				Characteristic Capacities[kN]	
	Joist		Header		$R_{1,k}$	$R_{2,k}$
	Qty	Type	Qty	Type	C27/TR26	N3.75x30
					N3.75x30	
THA38	6.0	N3.75x30	20.0	*	12.4	3.7
THA44	6.0	N3.75x30	20.0	*	12.4	3.7
THA50	6.0	N3.75x30	20.0	*	12.4	3.7
THA75	6.0	N3.75x30	20.0	*	12.4	3.7
THA100	6.0	N3.75x30	20.0	*	12.4	3.7

* Refer to capacity table columns for type of fasteners that can be used on header. Capacities depending on fastener type.

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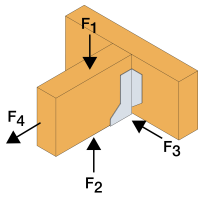
SIMPSON Strong-Tie

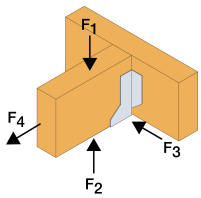
Product capacities - Timber to timber - Face fix installation (Double Shear Joist Nails)



Reference	Hanger capacity					
	Product capacities - Timber to timber - face fix installation (Double Shear Joist Nails)					
	Number of Fasteners				Characteristic capacities - Timber C27/TR26[kN]	
	Header		Joist		$R_{2,k}$	$R_{1,k}$
	Qty	Type	Qty	Type	N3.75x30	N3.75x30
THA38	20.0	N3.75*	6.0	N3.75x75	5.3	15.4
THA44	20.0	N3.75*	6.0	N3.75x75	5.3	15.4
THA50	20.0	N3.75*	6.0	N3.75x75	5.3	15.4
THA75	20.0	N3.75*	6.0	N3.75x75	5.3	15.4
THA100	20.0	N3.75*	6.0	N3.75x75	5.3	15.4

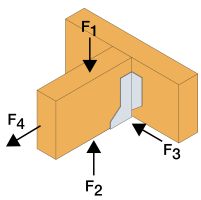
* Refer to capacity table columns for type of fasteners that can be used on header. Capacities depending on fastener type.

Product capacities - Timber to timber - Face fix installation (N3.75x75 Nails throughout)



Reference	Hanger capacity			
	Product capacities - Timber to timber - face fix (installation (N3.75x75 Nails throughout)			Product capacities - Timber to timber - Face fix Installation
	Characteristic capacities - C27/TR26[kN]		Number of Fasteners	Number of Fasteners
	$R_{1,k}$	$R_{2,k}$	Header	Joist
	N3.75x75	N3.75x75	Qty	Qty
THA50	20.46	5.3	26.0	6.0
THA100	20.46	5.3	26.0	6.0

Product capacities - Timber to timber - Wrap over installation



Reference	Hanger capacity					
	Product capacities - Timber to timber - Wrap over Installation			Characteristic Capacities[kN]		Characteristic Capacities
	Number of Fasteners			$R_{2,k}$	$R_{1,k}$	$R_{2,k}$
	Header		Joist		C27/TR26	N3.75x30
	Top	Face	Qty		N3.75x30	
	Qty	Qty				
THA38	4.0	8.0	6.0	-	10.5	3.7
THA44	4.0	8.0	6.0	-	10.5	3.7
THA50	4.0	8.0	6.0	-	10.5	3.7
THA75	4.0	8.0	6.0	-	10.5	3.7
THA100	4.0	8.0	6.0	-	10.5	3.7

Technical Sheet

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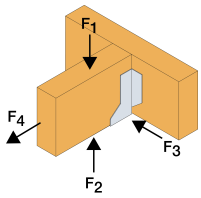
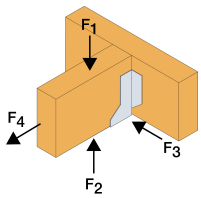
Product capacities - Timber to timber - Wrap over installation (Double Shear Joist Nails)



Reference	Hanger capacity							
	Product capacities - Timber to timber - wrap over installation (Double Shear Joist nails)							
	Number of Fasteners						Characteristic capacities - C27/TR26[kN]	
	Joist		Header				$R_{1,k}$	$R_{2,k}$
	Qty	Type	Top		Face		N3.75x30	N3.75x30
			Qty	Type	Qty	Type		
THA38	6.0	N3.75x75	4.0	N3.75*	8.0	N3.75*	16.4	5.3
THA44	6.0	N3.75x75	4.0	N3.75*	8.0	N3.75*	16.4	5.3
THA50	6.0	N3.75x75	4.0	N3.75*	8.0	N3.75*	16.4	5.3
THA75	6.0	N3.75x75	4.0	N3.75*	8.0	N3.75*	16.4	5.3
THA100	6.0	N3.75x75	4.0	N3.75*	8.0	N3.75*	16.4	5.3

* Refer to capacity table columns for type of fasteners that can be used on header. Capacities depending on fastener type.

Product capacities - Timber to timber - Wrap over installation (N3.75x75 Nails throughout)



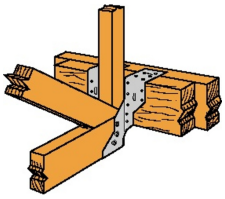
Reference	Hanger capacity				
	Product capacities - Timber to timber - wrap over installation (N3.75x75 Nails throughout)				
	Number of Fasteners			Characteristic capacities - C27/TR26[kN]	
	Joist	Header		$R_{1,k}$	$R_{2,k}$
	Qty	Top	Face	N3.75x75	N3.75x75
		Qty	Qty		
THA50	6.0	4.0	14.0	20.46	5.3
THA100	6.0	4.0	14.0	20.46	5.3

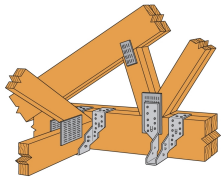
Installation

Installation

2 Installation Configrations :

- Face Fix - Straps fixed to face of supporting timber. Face nailing only
- Wrap Over - Straps folded over top of supporting member. Face and Top Nailing.





THA configurations.

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