

Technical Sheet

SIMPSON

Strong-Tie

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.

Features

Material

- Pre-galvanised mild steel

Advantages

c

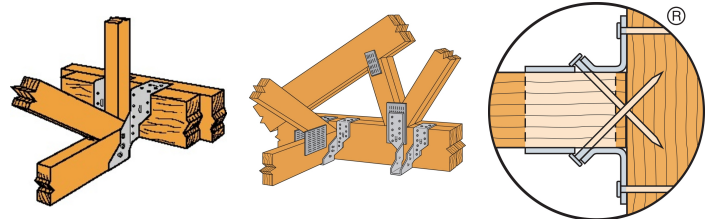
Applications

Suitable On

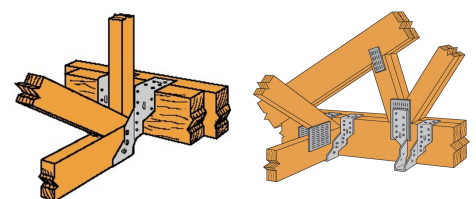
- **Solid sawn timber**
- **Engineered timber**

When to Use

- Trusses
- Joists



THA configurations.

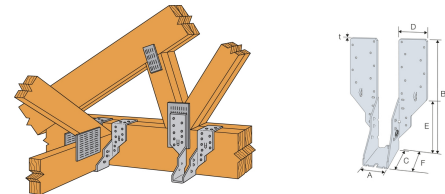


THA configurations.

THA Adjustable Truss Hanger

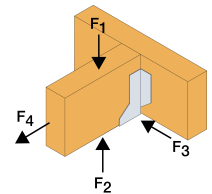
Technical Data

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		R1,k	R2,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

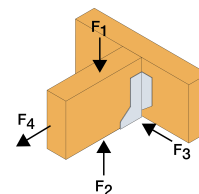
* Refer to capacity table columns for type of fasteners that can be used on header. Capacities depending on fastener type.

Technical Sheet



THA Adjustable Truss Hanger

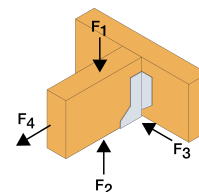
Product capacities - Timber to timber - Face fix installation (Double Shear Joist Nails)



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		R2,k	R1,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

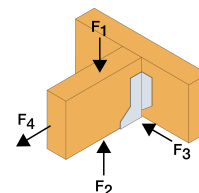
* Refer to capacity table columns for type of fasteners that can be used on header. Capacities depending on fastener type.

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	
	R1,k	R2,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



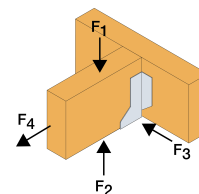
Reference	Hanger capacity					
	Product capacities - Timber to timber - Wrap over Installation			Characteristic Capacities[kN]		Characteristic Capacities
	Number of Fasteners			R2,k	R1,k	R2,k
	Header		Joist		C27/TR26	N3.75x30
	Top	Face	Qty		N3.75x30	
	Qty	Qty				
THA38	4.0	8.0	6.0	-	10.5	3.7
THA44	4.0	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



THA Adjustable Truss Hanger

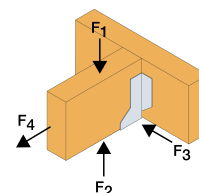
Product capacities - Timber to timber - Wrap over installation (Double Shear Joist Nails)



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				R1,k	R2,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		R1,k	R2,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	

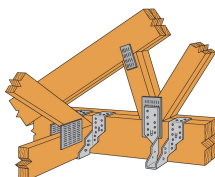
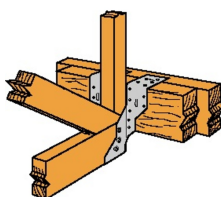
THA Adjustable Truss Hanger

Installation

Installation

2 Installation Configurations :

- 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.

