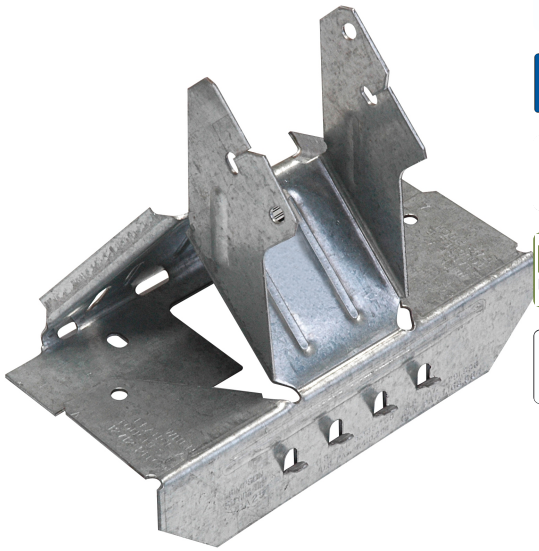
Technical Sheet

VPA
Variable Pitch Connector

The VPA is an engineered one-piece connector for attaching I-joist rafters to wall plates.

- *The VPA is adjustable to slopes between 15° and 45° with a special interlock design indicating when the maximum pitch is reached. This product complements the versatile LSSU.*
- *Designed for use with double 38mm top plates with a 50mm seat, which allows sufficient bearing area for most rafters.*
- *No notching of the I-joist is required when using the VPA. This connector reduces the need for bevelled plates and toenailing. It has positive angle nailing to speed installation and to minimise wood splitting.*



Features

Material

- Pre-galvanised mild steel

Advantages

v

Applications

Suitable For

- Timber Trusses.

When to Use

- Truss to wall plate connections.

Technical Sheet

VPA
Variable Pitch Connector

Technical Data

Product Dimensions

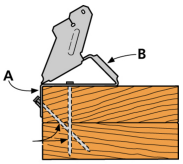
Reference	Connector Dimensions						
	Other	Product Dimensions[mm]		Header holes			Joist holes
	Weight[kg]	B[mm]	C[mm]	PAN	Obround	Round	Obround
					Obround Ø4x6	Ø4.1	Obround Ø4x6
VPA25	0.2	133	67	4	2	2	2
VPA50	0.145	124	62	4	3	2	2
VPA56	0.157	124	62	4	3	2	2
VPA61	0.16	132	62	4	3	2	2
VPA66	0.168	132	62	4	3	2	2
VPA72	0.177	137	62	4	3	2	2
VPA75	0.185	145	67	6	3	2	2
VPA4	-	183	67	6	3	2	2
VPA96	0.216	166	67	6	3	2	2
VPA99	0.22	170	67	6	3	2	2

Performance Values

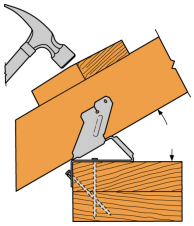
Reference	Ties capacity								
	Characteristic Capacities[kN]								
	Solid Section			I-Joists					
				LVL Flanges			Solid Flanges		
	$R_{1,k}$	$R_{2,k}$	$R_{3\&4,k}$	$R_{1,k}$	$R_{2,k}$	$R_{3,k}=R_{4,k}$	$R_{1,k}$	$R_{2,k}$	$R_{3,k}=R_{4,k}$
VPA25	5.6	1.4	1	5.6	3.9	1.9	5.6	1.4	0.7
VPA50	5.2	1.4	1	5.2	3.9	1.9	5.2	1.4	0.7
VPA56	5.6	1.4	1	5.6	3.9	1.9	5.6	1.4	0.7
VPA61	5.6	1.4	1	5.6	3.9	1.9	5.6	1.4	0.7
VPA66	5.6	1.4	1	5.6	3.9	1.9	5.6	1.4	0.7
VPA72	5.6	1.4	1	5.6	3.9	1.9	5.6	1.4	0.7
VPA75	7.8	1.4	1	7.8	3.9	1.9	7.8	1.4	0.7
VPA4	7.8	1.4	1	7.8	3.9	1.9	7.8	1.4	0.7
VPA96	7.8	1.4	1	7.8	3.9	1.9	7.8	1.4	0.7
VPA99	7.8	1.4	1	7.8	3.9	1.9	7.8	1.4	0.7

VPA
Variable Pitch Connector

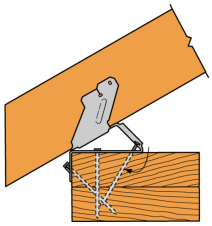
Installation



Step 1: Install top nails and face PAN nails in the "A" flange to outside wall top plate.



Step 2: Seat rafter with a hammer, adjusting the "B" flange to the required pitch.



Step 3: Install "B" flange nails in the obround nails holes, locking the pitch.

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