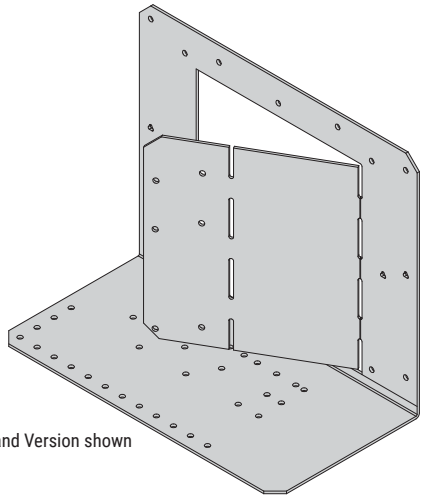
VS

Variable Skewed Timber Hanger

UKTA–21/0010

ETA–20/1073



Right Hand Version shown

The VS hanger is used to support joists and trusses up to 97mm wide from solid timber members in skewed applications between 30 – 90º.

Features & Benefits

- Unique hanger design provides a variable skew angle between 30 – 90º
- No need to mitre cut joists
- Angle scale on base to ease adjustment

Material Specification

- Galvanised mild steel – Z275

Fixings

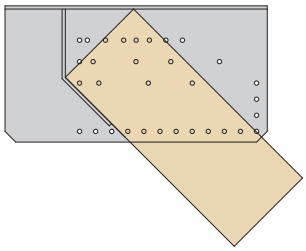
Code	Description	Box Qty
547389	3.4 x 35mm Square Twist Nails – LOOSE	500
141185	3.4 x 35mm Square Twist Nails – COLLATED*	2,500

*For use with Paslode PPN35Ci

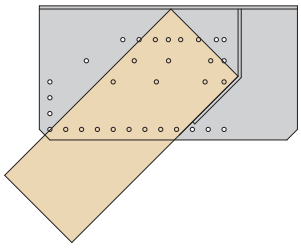
Available Sizes

Min Joist Width (mm)	Max Joist Width (mm)	Handing	Hanger Depth (mm)			
			195	220	240	300
38	97	Right	VS–195–R	VS–220–R	VS–240–R	VS–300–R
38	97	Left	VS–195–L	VS–220–L	VS–240–L	VS–300–L
>97		See FTHIS on page 85				

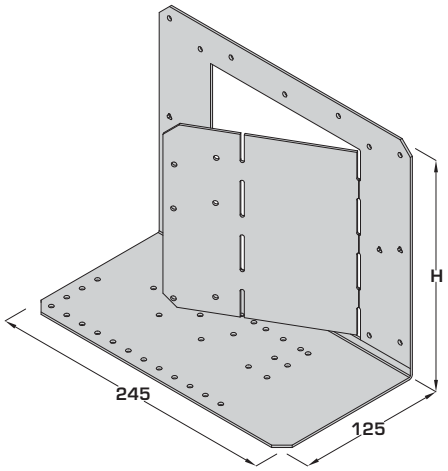
Left Hand



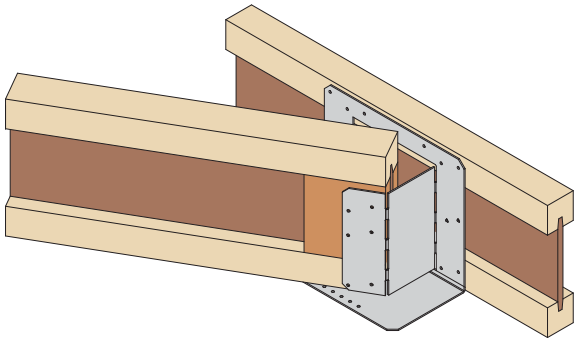
Right Hand



Dimensions (mm)

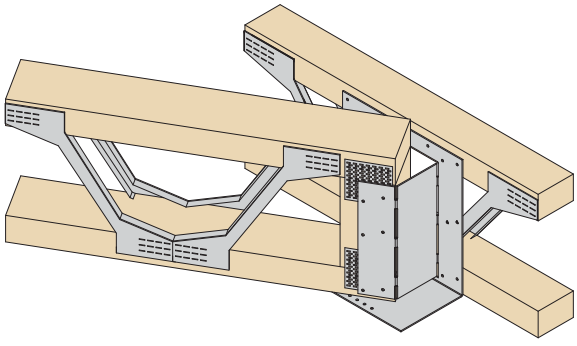


In Situ



- Web stiffeners required for incoming I–Joist
- Backer blocks only required for enhanced capacity

Joist Depth (mm)	Hanger Depth (mm)
195/200	195
220/235	220
240/245	240
300	300



- Adequate end blocking required to allow fixings into incoming Open Web Joist

Joist Depth (mm)	Hanger Depth (mm)
195/202	195
219/225	220
253/254	240
304	300

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Load Data

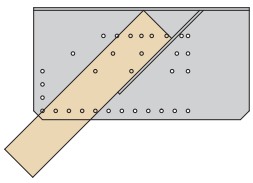
Hanger Depth (mm)	Fixings (3.4 x 35mm)		Characteristic Capacity (kN)		
	Header	Incoming	Uplift	I–Joist Header (all flanges)	Open Web Header
195/220/240	11	6	3.75	5.90	5.90
300	11	6	3.75	6.39	6.39
				I–Joist Header With Backer	Glulam (Min GL28)/LVL* Header
195/220/240/300	15	6	3.75	6.37	7.23 (7.28*)

Installation Instructions

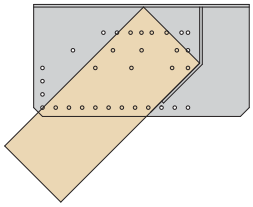
Stage 1

Adjust side plate to approximate angle between 30° and 90° using scale on base of hanger, bending only once. Please refer to the angle table below to determine if one or two bends are required.

Single Bend



Double Bend

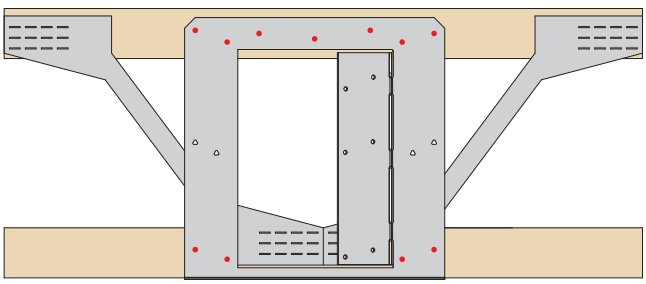


Joist Width (mm)	Double Bend	Single Bend
35	30–90°	n/a
38	30–90°	n/a
44	30–90°	n/a
45	30–90°	n/a
47	30–90°	n/a
51	>32–90°	30–32°
53	>32–90°	30–32°
58	>34–90°	30–34°
59	>34–90°	30–34°
60	>35–90°	30–34°
63	>37–90°	30–37°
70	>39–90°	30–39°
72	>40–90°	30–40°
76	>42–90°	30–42°
88	>46–90°	30–46°
89	>46–90°	30–46°
90	>46–90°	30–46°
94	>48–90°	30–48°
97	>49–90°	30–49°

Stage 2

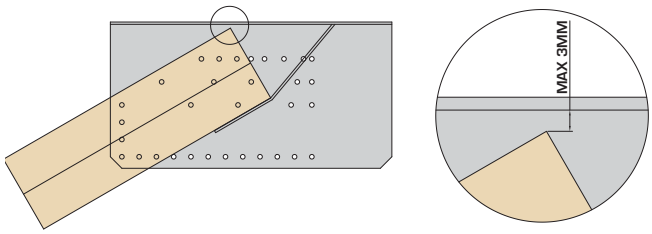
Position hanger against face of joist/truss and face nail using 11(15*)No nails in total.

*For solid headers



Stage 3

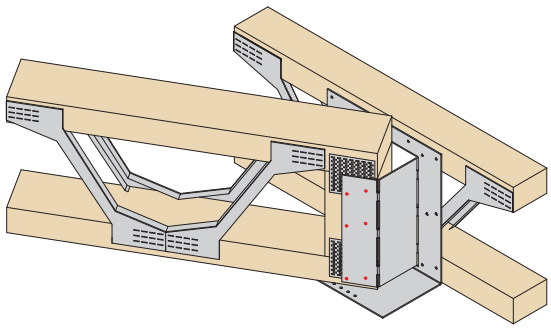
Locate incoming member and adjust side plate to correct angle, ensuring maximum gap between incoming joist/truss and back plate is no greater than 3mm.



Max – 3mm gap at any given time

Stage 4

Fix to incoming member using 6No 3.4 x 35mm square twist nails. Where incoming member is an I–Joist, web stiffeners must be fixed as per the I–Joist manufacturer's guidelines.



Please ensure that 1No inner nail hole (indicated in red) and 1No outer nail hole (indicated in red) are filled on the underside with 3.4 x 35mm square twist nails.