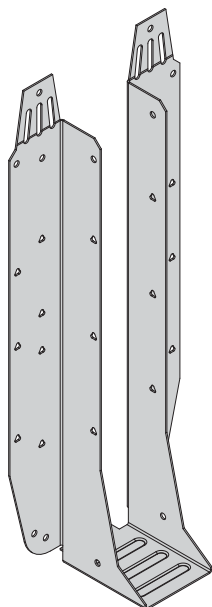


UH (Open Web Applications)

Universal Hanger

GB Patent 2497747



The UH hanger is designed for any joist to joist, joist to trimmer or joist to steel application.

Features & Benefits

- Elongated slots and unique snap off feature allows for height adjustment and face fix only option
- One hanger solution for backer and backerless I-Joists
- Rear location tab to assist with installation
- Additional triangular fixing holes for increased performance on solid members
- Suitable for connections to steel work – see pages 74 – 76

Material Specification

- Galvanised mild steel – Z275

Fixings

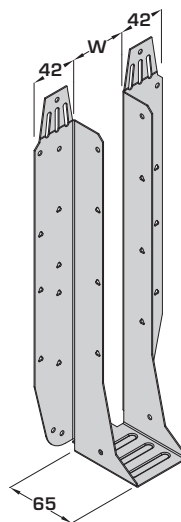
Code	Description	Box Qty
547389	3.4 x 35mm Square Twist Nails – LOOSE	500
141185	3.4 x 35mm Square Twist Nails – COLLATED*	2,500

*For use with Paslode PPN35Ci
(or 3.5 x 30mm wood screw for sacrificial stairwell installation only)

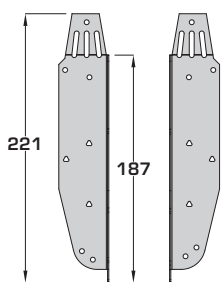
Available Sizes

Hanger Width (W) (mm)	Hanger Depth (mm)				
	195	220	235	300	>300
39	-	UH-39-220	UH-39-235	UH-39-300	SEE HUH (PAGES 67 – 73)
46	UH-46-195	UH-46-220	UH-46-235	UH-46-300	
50	UH-50-195	UH-50-220	UH-50-235	UH-50-300	
75	UH-75-195	UH-75-220	UH-75-235	UH-75-300	
78	-	UH-78-220	UH-78-235	UH-78-300	
92	-	UH-92-220	UH-92-235	UH-92-300	
100	UH-100-195	UH-100-220	UH-100-235	UH-100-300	
>100	SEE HUH (PAGES 63 – 66) OR MHE (PAGES 77 – 78)				

Dimensions (mm)

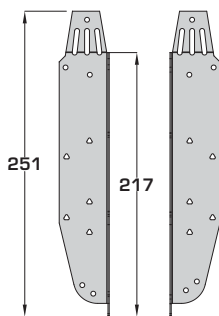


Height Suitability



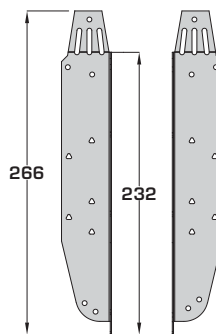
UH-195

(To suit 195 – 202mm deep open web joists)



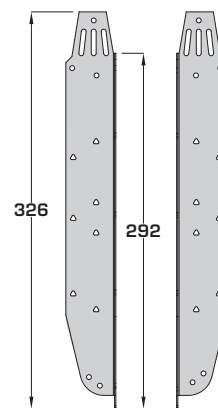
UH-220

(To suit 219 & 225mm deep open web joists)



UH-235

(To suit 253 – 254mm deep open web joists)



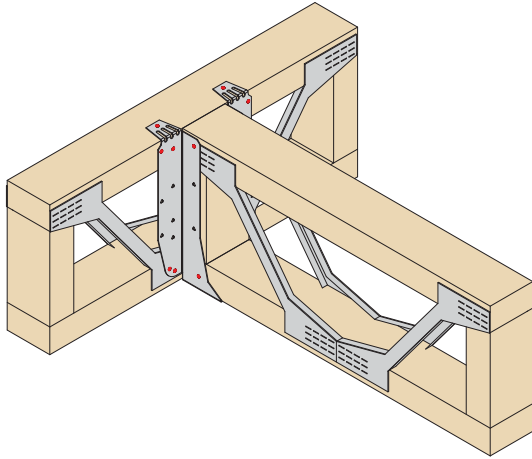
UH-300

(To suit 304mm deep open web joists)

UH (Open Web Applications)

Universal Hanger

Standard Installation – Open Web Header



See Page 61 For Installation Instructions

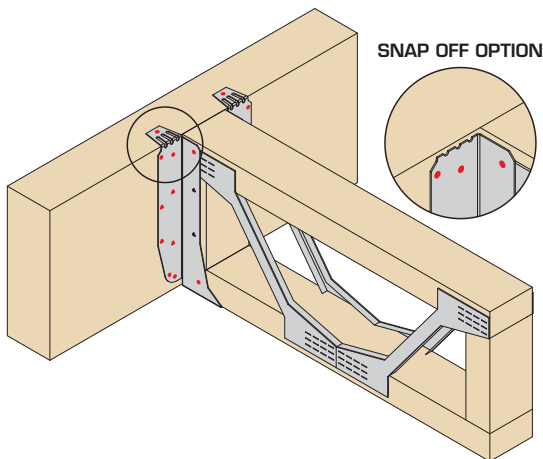
- Fill all red holes as indicated for this installation
- No backer block/plywood gusset required
- Top tabs to be wiped over and nailed
- Additional triangular holes into face only required for solid headers

Additional triangular holes into incoming joist only required for enhanced uplift. (for details see page 59)

Load Data

Hanger Depth (mm)	Fixings (3.4 x 35mm)			Characteristic Capacity (kN)	
	Header		Incoming	Uplift	Open Web Header
(Depth Dependent)	Face	Top			
195	8	2	2	1.98	14.19
220	8	2	4	3.97	14.19
235	8	2	4	3.97	13.23
300	8	2	4	3.97	13.64

Enhanced Installation – Solid Header



See Page 61 For Installation Instructions

- Fill all red holes as indicated for this installation
- All nail holes filled into solid header (including triangular)
- Top tabs to be wiped over and nailed or snapped off to give face fix only option

Additional triangular holes into incoming joist only required for enhanced uplift. (for details see page 59)

Load Data

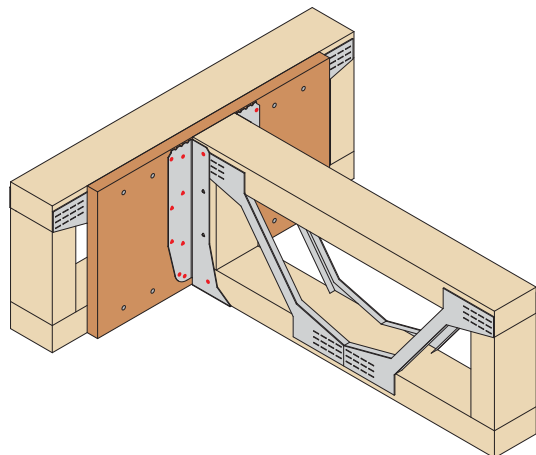
Hanger Depth (mm)	Fixings (3.4 x 35mm)			Characteristic Capacity (kN)		
	Header		Incoming	Uplift	Solid Header	
(Depth Dependent)	Face	Top			GL (Min GL28)	LVL
195	14	2 (0**)	2	1.98	16.84	15.25
220	18	2 (0**)	4	3.97	19.69	18.65
235	18	2 (0**)	4	3.97	22.16	21.58
300	22	2 (0**)	4	3.97	22.16	22.17

**No fixings required when using snap off option

UH (Open Web Applications)

Universal Hanger

Enhanced Installation – Open Web Header with Plywood Gusset



See Page 62 For Installation Instructions

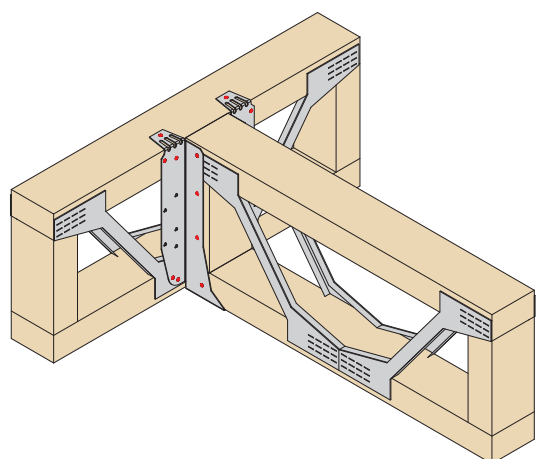
- Fill all red holes as indicated for this installation
- 18mm plywood gusset should be screwed into open web header with the appropriate screws – see installation instructions for more information
- All nail holes filled into plywood gusset (including triangular)
- Top tabs snapped off to give face fix only fixing

Additional triangular holes into incoming joist only required for enhanced uplift.
(for details see below)

Load Data

Hanger Depth (mm) (Depth Dependent)	Fixings (3.4 x 35mm)			Characteristic Capacity (kN)	
	Header		Incoming	Uplift	Open Web Header / 18mm
	Face	Top			
195	14	0	2	1.98	16.84
220	18	0	4	3.97	19.69
235	18	0	4	3.97	22.16
300	22	0	4	3.97	22.16

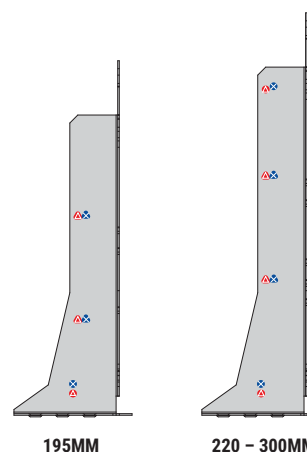
Enhanced Uplift



- Fill all red holes as indicated for this installation
- Fixings into the incoming joist are required to resist uplift
- Increased uplift figures can be achieved by nailing the additional triangular nail holes into the incoming member – solid incoming or web stiffeners are required

Load Data

Hanger Depth (mm) (Depth Dependent)	Fixings (3.4 x 35mm)	Characteristic Capacity (kN)
	Incoming	Uplift
195	6	5.97
220 – 300	8	7.97



195MM

220 – 300MM

△ Near side

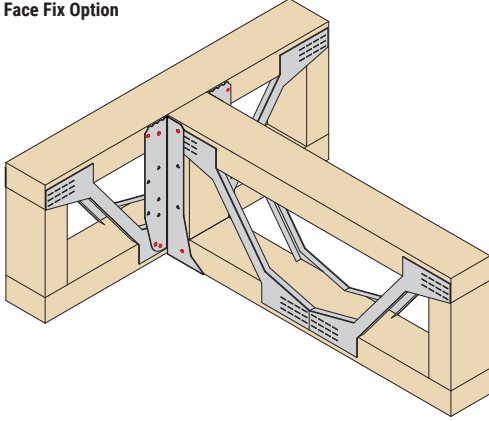
⊗ Far side

UH (Open Web Applications)

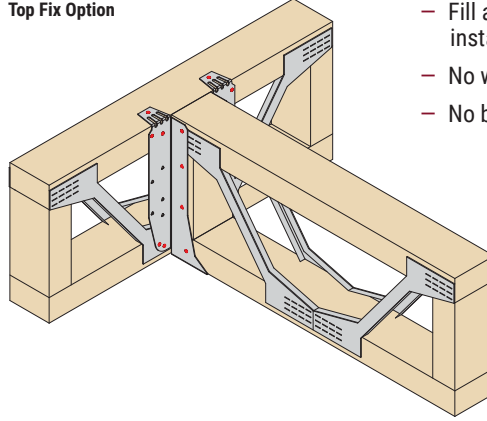
Universal Hanger

Sacrificial Stairwell Installation

Face Fix Option



Top Fix Option



- Fill all red holes as indicated for this installation
- No web stiffeners required
- No backer blocks required

Load Data

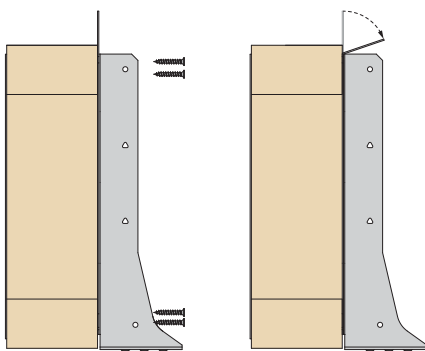
Hanger Depth (mm)	Fixings (3.4 x 35mm)			Characteristic Capacity (kN)	
	Header		Incoming	Uplift	Open Web Header
(Depth Dependent)	Face	Top			
195	8	2 (0 ^{**})	2	1.98	7.43
220	8	2 (0 ^{**})	4	3.97	7.43
235	8	2 (0 ^{**})	4	3.97	7.43
300	8	2 (0 ^{**})	4	3.97	7.43

**No fixings required when using snap off option

3.5 x 30mm multi-purpose wood screws may be used as an alternative fixing for temporary supporting hanger.

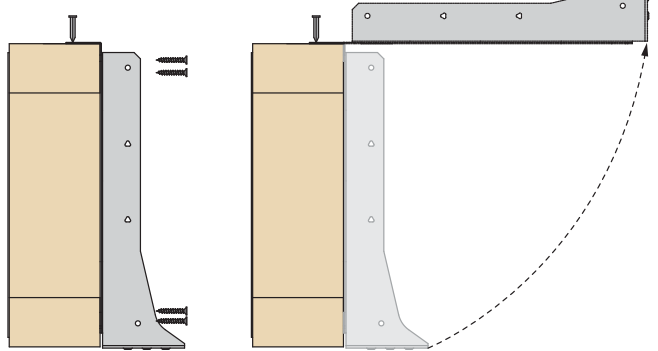
Installation Instructions

Face Fix Option



Face fix to top and bottom chords using 8No screws or nails.
 Bend tabs forward and snap off.
 Once ready for stairs to be installed the deck can be cut and joists/hangers removed.

Top Fix Option



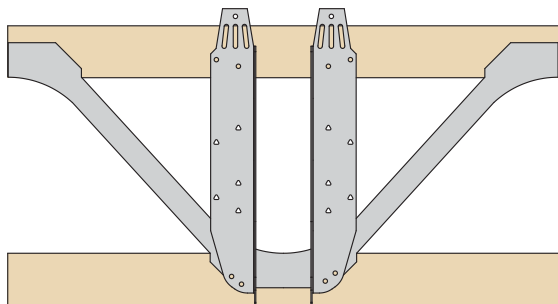
Face fix to top and bottom chords using 8No screws or nails.
 Bend top tabs over joist top flange and nail using 1No fixing per leg.
 Once ready for stairs to be installed the deck can be cut and joists/hangers removed.
 Hanger to be rotated through 90° to snap off at break line.

UH (Open Web Applications)

Universal Hanger

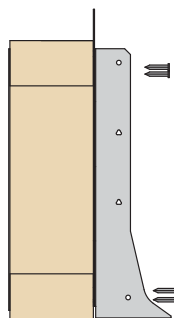
Standard Installation Instructions – Open Web Header

Stage 1



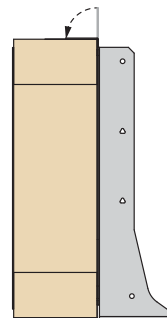
Position hanger against face of open web joist with locating tab tight to underside of joist.

Stage 2



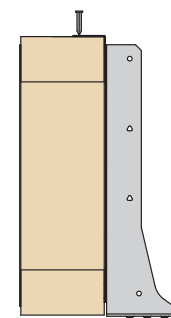
Face nail to top and bottom chords using 8No 3.4 x 35mm square twist nails in total.

Stage 3



Wipe over top tabs to give a flush fit to the joist.

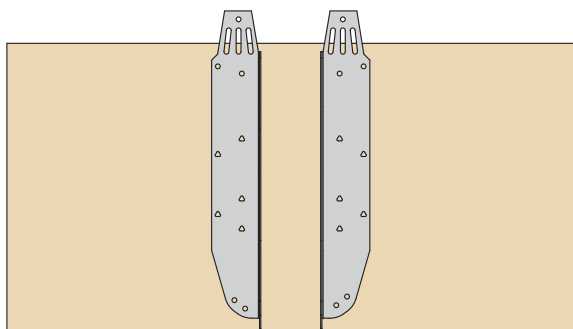
Stage 4



Nail top tabs into top chord of joist – 1No 3.4 x 35mm square twist nail per tab.

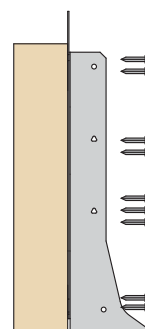
Enhanced Installation Instructions – Solid Header

Stage 1



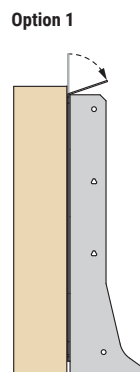
Position hanger against face of joist with locating tab tight to underside of joist.

Stage 2



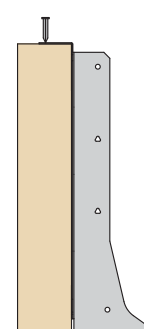
Fill all round and triangular nail holes to header with 3.4 x 35mm square twist nails.

Stage 3



Bend top tab forward and snap off.

Option 2



Wipe over top tabs to give a flush fit to the joist.

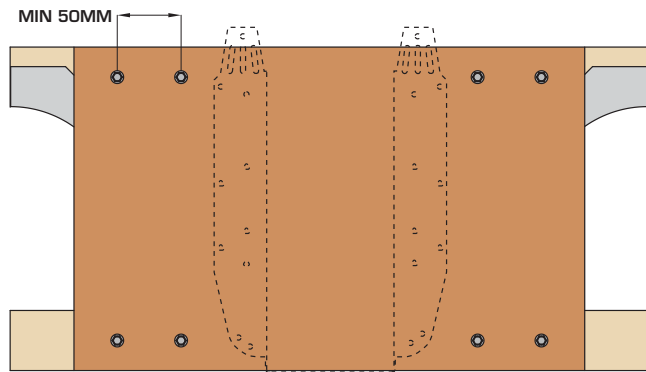
Nail top tabs into top chord of joist – 1No 3.4 x 35mm square twist nail per tab.

UH (Open Web Applications)

Universal Hanger

Open Web Header With Plywood Gusset Instructions

Stage 1

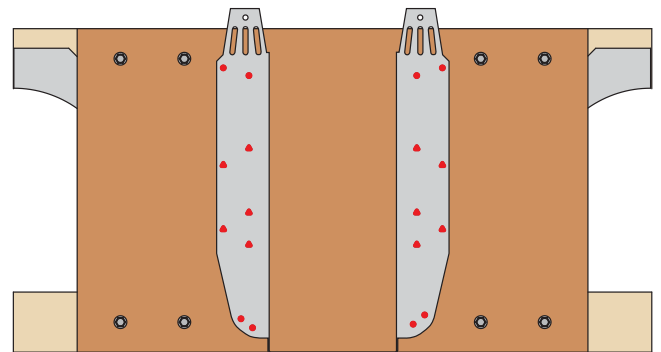


18mm plywood should be fixed to the face of the open web joist with 4No PSTS 6.5mm into the top chord and 4No PSTS 6.5mm into the bottom chord.

Plywood should be the full depth of the open web and of a width to give the screws the appropriate edge distance.

Paslode Structural Timber Screws should be used to fix the plywood to the open web joist. The screw length is dependant on the joist thickness.

Stage 2



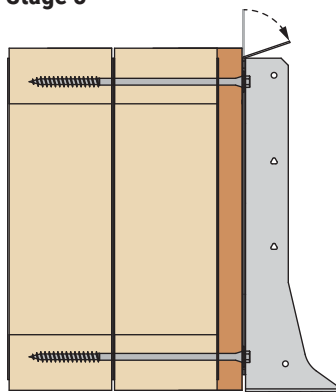
Position hanger flush with underside of joist.

Circular nail holes filled from bottom to top ensuring hanger side flanges are plumb.

All fixings are 3.4 x 35mm square twist nails.

Optional triangular nail holes should also be filled.

Stage 3



Bend top tabs forward and snap off.

Screw Specification

Header Joist Thickness	Fixing Ref	Product Code	Box Qty
Single 72mm	PSTS6.5X65	551105	100
Single 97mm	PSTS6.5X100	551106	100
Single 122mm	PSTS6.5X100	551106	100
Single 147mm	PSTS6.5X115	551102	100
Double 72mm	PSTS6.5X150	551107	100
Double 97mm	PSTS6.5X200	551108	100
Double 122mm	PSTS6.5X200	551108	100
Double 147mm	PSTS6.5X250	551109	100