

IUC — Face Fix Concealed Joist Hanger

Material:

Carbon Steel 1.2mm thick - IUC; Carbon Steel 2mm thick - HUC48Z
Stainless Steel 1.5mm thick - SAIX440/90/1,5

Finish:

Z275 Galvanised: IUC



ZMAX® Galvanised: HUC48Z



316 Stainless Steel: SAIX440/90/1,5



Size: See illustration on the right and table below

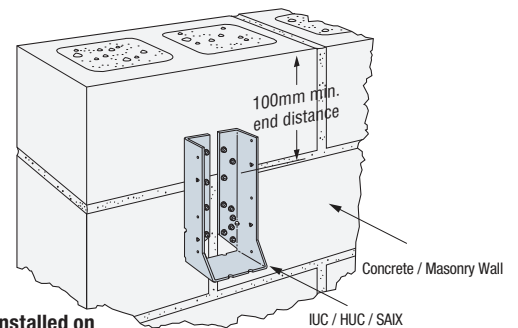
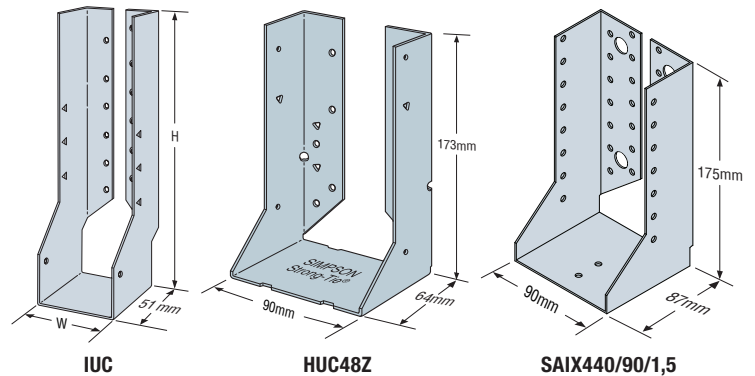
Features & Benefits

- Inward facing flanges increase positioning flexibility
- Designed for greater strength with fewer fasteners to install
- Concealed-flange design provides cleaner lines for visible applications such as overhead decks and patio cover
- Allows connection flush with header or stringer, boundary joist ends
- HUC has Extra optional triangle holes for additional load
- The IUC has optional triangular nail holes for additional uplift
- The HUC manufactured in heavier gauge steel for a stronger connection
- Available at 316 Stainless Steel for extra corrosion protection

Installation

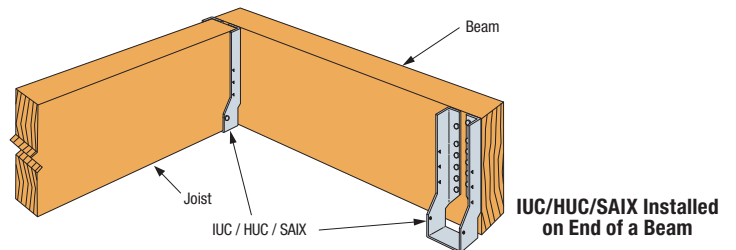
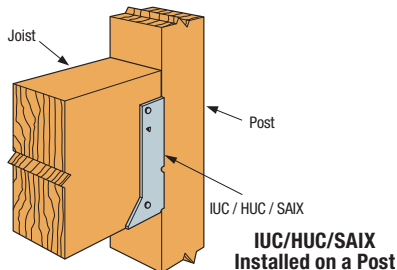
- Use all specified fasteners
- Verify that the header can take the fasteners specified in the table
- Web stiffeners are not required with I-joists when the top flange is laterally supported by both sides of the hanger

Note: These hangers cannot be skewed



IUC/HUC/SAIX Installed on Concrete / Masonry Wall

Construction Details



IUC DUC SAIX Technical Data

Model No.	Joist size (mm)		Dimensions (mm)			Fasteners (No. – Length x Dia., mm)		Country	Design Capacity (kN)	
	Width	Height	H	W	B	Face ⁵	Joist		Download	
									Floor	Roof
IUC142/47	45	145	142	47	51	6 – 38 x 3.75	2 – 38 x 3.75	AU	k_f = 0.69 4.23	k_f = 0.77 4.23
IUC192/47		195 - 200	192	47	51	10 – 38 x 3.75	2 – 38 x 3.75	NZ	k_f = 0.80 3.98	k_f = 0.80 3.98
HUC48Z	90	190 - 300	173	90	64	14 – 75 x 3.75	6 – 75 x 3.75	AU	k_f = 0.69 4.37	k_f = 0.77 4.88
SAIX440/90/1.5		190 - 260	175	90	87	22 – 38 x 3.75	12 – 38 x 3.75	NZ	k_f = 0.80 4.22	k_f = 0.80 4.22
								AU	k_f = 0.69 11.01	k_f = 0.77 11.01
								NZ	k_f = 0.80 11.01	k_f = 0.80 11.01

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the Australian Capacity Factor, or the NZ Strength Reduction Factor (φ), and applicable the k modification factors following AS 1720.1 and NZS 3603 and (2) the Serviceability Capacity which is the load at 3.2mm joint slip. Design Capacity is the minimum of test data and structural joint calculation.
2. For Australia, the Capacity Factor (φ) is 0.85 for nails and screws for structural joints in a Category 1 application. Reduce tabulated values where other Category applications govern. For NZ, the Strength Reduction Factor (φ) is 0.80 for nails in lateral loading.
3. Duration of Load Factor (k_f) is as shown. Reduce Duration of Load Factor where applicable. Capacities may not be increased.
4. Timber species for joint design is seasoned Radiata Pine, which is Australia Joint Group JD4 per AS 1720.1 Table H2.4 and New Zealand Joint Group J5 per NZS 3603 Table 4.1.
5. Stainless steel connectors require stainless steel fasteners.