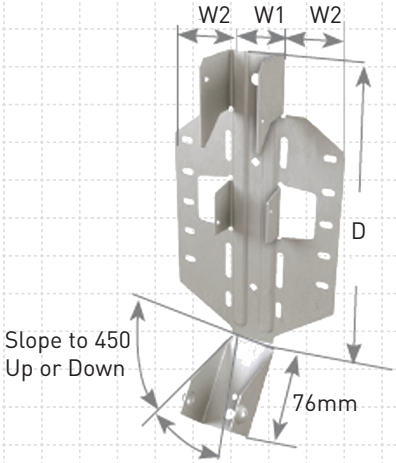
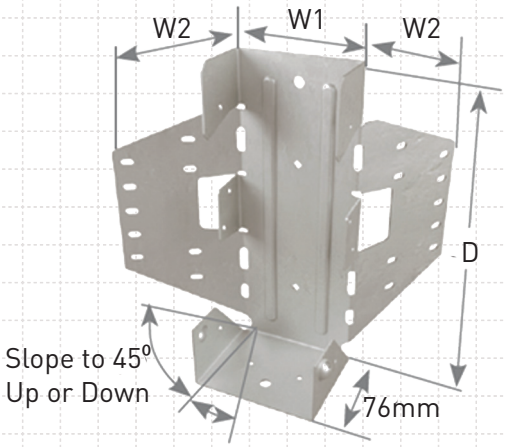
SLOPE / SKEW HANGERS

CONNECTS RAFTERS TO RIDGE BEAMS IN VAULTED ROOF

- Slopes and skews 0 to 45 degrees down
- Field adjustable to meet a variety of skews and/or slope applications



LSSH210 & LSSH179



LSSH25 & LSSH35

Product Code	Finish	Steel Thickness (mm)	Max. Support Beam Thickness, W1 (mm)	Flange Width, W2 (mm)	Depth, D (mm)
LSSH210	Galvanised Coating Z275	1.2	40	44	225
LSSH179		1.2	46	41	225
LSSH25		1.5	65	69	225
LSSH35		1.5	90	89	225

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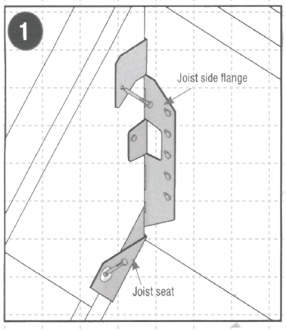
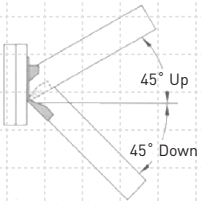
SLOPE / SKEW HANGERS

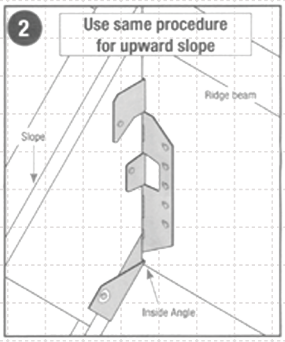
CONNECTS RAFTERS TO RIDGE BEAMS IN VAULTED ROOF

Installation Instructions
Sloped Fixied Hangers

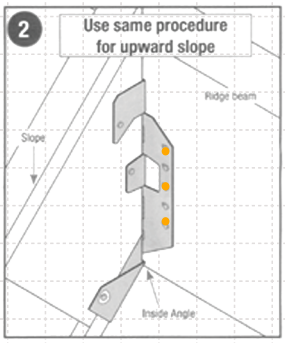


Position LSSH hanger against plumb cut end of joist as shown. Fix joist side flanges on both sides with MiTek Yellow 40mm x 3.75mmm diameter nails. Bend seat up to fit against joist bottom and drive (1) MiTek Yellow 40mm x 3.75mmm diameter nail through bottom seat into rafter bottom. Drive (2) MiTek Yellow 40mm x 3.75mmm diameter nails at downward angle through dimple nailing guides.

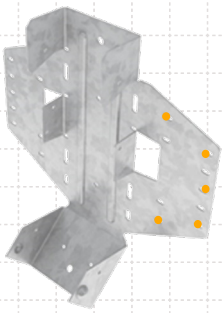




Lean hanger and rafter end against ridge beam at desired position. Install MiTek Yellow MSA1430 screws through nail holes into ridge beam at right 90 degree angle.



For LSSH210 and LSSH179 fix 3 screws to each flange as shown.



For LSSH25 and LSSH35 fix 5 screws to each flange as shown.

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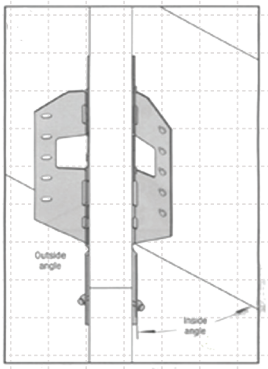
SLOPE / SKEW HANGERS

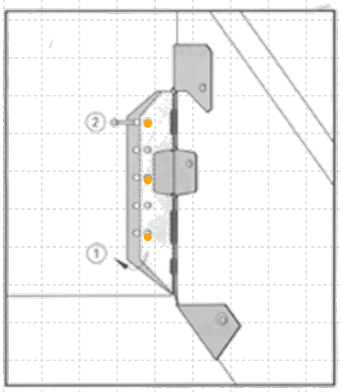
CONNECTS RAFTERS TO RIDGE BEAMS IN VAULTED ROOF

Installation Instructions
Skewed Fixed Hangers



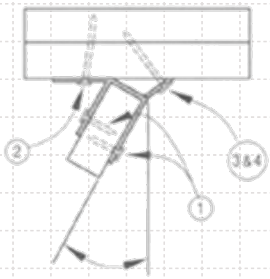
If skewing the rafter, follow steps 1 and 2 but only drive screws into ridge beam on inside flange.

Bend flange to desired angle.

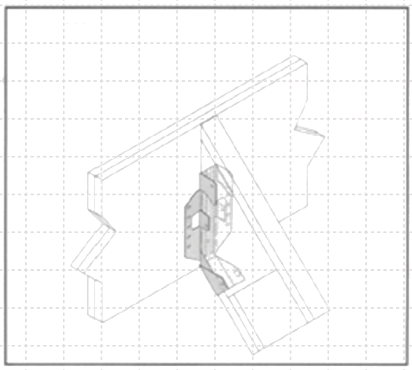


1. Hammer outside flange until edge touches the header.

2. Fixing outside flange to ridge by driving (3) MiTek Yellow MSA1430 screws through holes as shown.



Skew to 45 degrees maximum



Web stiffeners are required for all I-Beam installations.

Designer may consider adding a tension restraint for the supported member for roof slopes exceeding 26 degrees.

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SLOPE / SKEW HANGERS

CONNECTS RAFTERS TO RIDGE BEAMS IN VAULTED ROOF

Table 1 - Design Capacity

Product Code	Fixing Schedule				Limit State Design Capacity (kN)		
	Supporting Member		Supported member		Load Case	Joint Group	
	Qty	Fixing Type	Qty	Fixing Type		JD4	JD5
Slope Fixed Hangers							
LSSH210	6	MiTek Yellow MSA1430 Screws	7	MiTek Yellow 40 x 3.75 Dia. Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	6.5 7.9 8.8 2.0	5.1 6.2 6.9 2.6
LSSH179	6	MiTek Yellow MSA1430 Screws	7	MiTek Yellow 40 x 3.75 Dia. Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	6.5 7.9 8.8 4.0	5.1 6.2 6.9 3.3
LSSH25	10	MiTek Yellow MSA1430 Screws	12	MiTek Yellow 40 x 3.75 Dia. Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	9.8 11.9 13.3 6.5	7.8 9.4 10.5 5.3
LSSH35	10	MiTek Yellow MSA1430 Screws	12	MiTek Yellow 40 x 3.75 Dia Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	11.0 13.4 14.9 6.5	7.8 9.4 10.5 5.3
Slope and Skew Fixed Hangers							
LSSH210 LSSH179	6	MiTek Yellow MSA1430 Screws	7	MiTek yellow 40 x 3.75 Dia. Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	6.5 7.9 8.8 4.3	5.1 6.2 6.9 3.5
LSSH25	8	MiTekYellow MSA1430 Screws	12	MiTek Yellow 40 x 3.75 Dia. Nails	DL (k_1 = 0.57) DL + Floor LL (k_1 = 0.69) DL + Roof LL (k_1 = 0.77) DL + WL (k_1 = 1.14)	7.6 9.1 10.2 6.5	6.7 8.1 9.1 5.3

Notes:

1. Capacities listed in Table 1 incorporate a category 1 capacity factor for houses. For other categories, multiply the design capacities by the factors listed below. refer to AS 1720.1 for a full definition of each category.

Category	1	2	3
Adjustment Factor	1.00	0.94	0.88

2. Where joint members are different, the dead and live load capacities will be based on the joint group of the supporting member. For DL + WL, the capacity will be based on the joint group of the supported member.

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