## MSC Multiple Seat Connector



The MSC supports the ridge and two valleys for roof construction. Ideal for dormer roof applications.

MATERIAL: Top flange—3 gauge, Stirrups—11 gauge (MSC2 and MSC1.81), 7 gauge (MSC4 and MSC5)

FINISH: Simpson Strong-Tie® gray paint; HDG available. Contact Simpson Strong-Tie.

INSTALLATION: • Distribute the total load evenly about the centerline to avoid eccentric loading.

- · Fasten all built-up members together as one unit.
- Net height will be calculated based on specified valley member depth and slope by the factory unless noted otherwise.

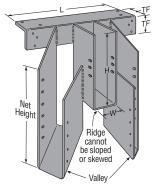
## **SLOPED AND/OR SKEWED VALLEYS**

- The valley stirrups can be sloped to 45° and skewed from 25° to 45°. (MSC5 skewed 20°-45°.)
- The total design load of the hanger is split between the ridge (20%) and each valley (40%).
- MSC connectors can be used for two valley connections with no ridge member. Divide the total load by two for each valley load.

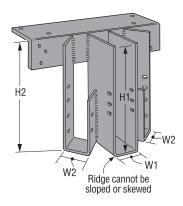
CODES: See page 12 for Code Reference Key Chart.

Model No.	Dimensions				Fasteners		Hips		Allowable Loads DF/SP			
	w	H (Min)	TF	L	Header	Joist	Max. Skew	Max. Slope	Floor/Snow/Roof (100/115/125)			Code Ref.
									Valley	Ridge	Total	
MSC2	1%16	5½	27/8	12	10-16d	18-10dx1½	45°	0°	2535	1265	6335	119, F18
						26-10dx1½		45°	2010	1005	5025	
MSC1.81	113/16	5½	27/8	12	10-16d	18-10dx1½	45°	0°	2535	1265	6335	
						26-10dx1½		45°	2010	1005	5025	
MSC4	3%16	7½	27/8	18	10-16d	18-10d	45°	0°	3335	1665	8335	
						26-10d		45°	3335	1665	8335	
MSC5	51/4	9½	27/8	26	13-16d	18-16d	45°	0°	6450	3220	16120	
						26-16d		45°	5340	2675	13355	

- 1. Valley loads are for each valley.
- 2. Other valley-ridge load distributions are allowed provided the sum of all three carried members is distributed symmetrically about the center of the hanger and combined do not exceed the total load.
- 3. MSC4 is also available in 31/8" Glulam width.
- 4. MSC5 is also available in widths up to  $5\frac{1}{2}$ ". W2 minimum width is  $3\frac{1}{2}$ ". 5. MSC4 is also available in widths down to  $1\frac{1}{2}$ ". Use  $10\frac{1}{2}$ " nails and MSC2 allowable loads.
- 6. Refer to technical bulletin T-MSC-WS for the hip valley rafter pitch conversion table (see page 191 for details).
- 7. **NAILS:** 16d = 0.162" dia. x  $3\frac{1}{2}$ " long, 10d = 0.148" dia. x 3" long,  $10dx1\frac{1}{2} = 0.148$ " dia. x  $1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.



**MSC4** with Valley Sloped and Skewed 45°



MSC1.81 with Valley Skewed 45° and Sloped 0°

