

VULCRAFT SLH / GENERAL INFORMATION

HIGH STRENGTH

ECONOMICAL

DESIGN - Vulcraft SLH Series long span steel joists are designed in accordance with the specifications included in this section.

ACCESSORIES see page 74.

PAINT - Vulcraft SLH Series joists receive a shop-coat of rust inhibitive primer that conforms to specification 202.4.

SPECIFICATIONS - see page 80.

TABLE 1

SLH- SERIES BRIDGING SPACING		
JOIST SECTION NUMBER*	MINIMUM BOLT DIAMETER	MAXIMUM SPACING OF BRIDGING LINES
SLH 15-18	5/8" dia A325	21'-0"
SLH 19-20	5/8" dia A325	26'-0"
SLH 21-22	5/8" dia A325	30'-0"
SLH 23-25	3/4" dia A325	30'-0"

*LAST TWO DIGITS OF JOIST DESIGNATION SHOWN IN LOAD TABLE.

TABLE 2

SLH-SERIES BEARING DATA				
JOIST SECTION NUMBER*	BEARING DEPTH	MINIMUM BEARING LENGTH	BEARING SEAT FILLET WELD (1)	BEARING SEAT BOLTS FOR ERECTION (1)
SLH 15-18	7-1/2"	4"	2-1/4" x 2"	2-3/4" dia A325
SLH 19-25	7-1/2"	6"	2-1/4" x 4"	2-3/4" dia A325

(1) BEARING SEATS MUST BE WELDED IN ADDITION TO BEING BOLTED.

TABLE 3

JOIST DEPTH	HORIZONTAL PLUS DIAGONAL BRIDGING*		DIAGONAL ONLY BRIDGING				
	.66 X DEPTH*	HORIZONTAL AND DIAGONAL ANGLE SIZE	MIN. JOIST SPACE FOR DIAGONAL ONLY BRIDGING	MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING SIZE			
				2" x 2" x 1/8"	2 1/2" x 2 1/2" x 3/16"	3" x 3" x 3/16"	3 1/2" x 3 1/2" x 1/4"
80"	4'-4"	1 3/4" x 1 3/4" x 1/8"	4'-5"	9'-11"	15'-1"	18'-8"	22'-1"
88"	4'-9"	1 3/4" x 1 3/4" x 1/8"	4'-10"	7'-3"	14'-9"	18'-5"	21'-11"
96"	5'-3"	2" x 2" x 1/8"	5'-4"		14'-5"	18'-2"	21'-8"
104"	5'-8"	2 1/2" x 2 1/2" x 3/16"	5'-9"		14'-0"	17'-10"	21'-5"
112"	6'-1"	2 1/2" x 2 1/2" x 3/16"	6'-2"		11'-11"	17'-6"	21'-1"
120"	6'-7"	2 1/2" x 2 1/2" x 3/16"	6'-8"			17'-0"	20'-10"

***NOTE: WHEN THE JOIST SPACING IS LESS THAN 0.66 x JOIST DEPTH, BOLTED HORIZONTAL BRIDGING SHALL BE USED IN ADDITION TO THE DIAGONAL BRIDGING.**

NOTES: 1. For lengths and depths greater than those shown in the load tables contact Vulcraft.

2. Additional bridging may be required when joists support a standing seam roof. The specifying professional should require the joist manufacturer to check the system and provide bridging as required to adequately brace the joists against lateral movement. For bridging requirements due to uplift loading refer to specification section 204.13.

