ECONOMICAL

HIGH STRENGTH

DESIGN - Vulcraft K Series open web steel joists are designed in accordance with specifications of the Steel Joist Institute.

ACCESSORIES see page 40.

FOR TOP CHORD EXTENSIONS AND EXTENDED ENDS see page 37.

SJI SPANS TO 60'-0"

PAINT - Vulcraft joists receive a shop-coat of rust inhibitive primer whose performance characteristics conform to those of the Steel Joist Institute specifications 3.3.

SPECIFICATIONS see page 10.

KCS SERIES JOIST see page 29.



MAXIMUM JOIST SPACING FOR HORIZONTAL BRIDGING									
	BRIDGING MATERIAL SIZE								
	Round Rod Equal Leg Angles								
SECTION	1/2"DIA	1 x 7/64	1-1/4 x 7/64	1-1/2 x7/64	1-3/4 x 7/64	2x 1/8	2-1/2 x 5/32		
NUMBER**	(13mm)	(25mm x 3mm)	(32mm x 3mm)	(38mm x 3mm)	(45mm x 3mm)	(51mm x 3mm)	(64mm x 4mm)		
	r = .13"	r = .25"	r = .25"	r = .30"	r = .35"	r = .40"	r = .50"		
1 thru 9	3'-3"	5'-0"	6'-3"	7'-6"	8'-7"	10'-0"	12'-6"		
	(991mm)	(1524mm)	(1905mm)	(2286mm)	(2616mm)	(3048mm)	(3810mm)		
10	3'-0"	4'-8"	6'-3"	7'-6"	8'-7"	10'-0"	12'-6"		
	(914mm)	(1422mm)	(1905mm)	(2286mm)	(2616mm)	(3048mm)	(3810mm)		
11 and 12	2'-7"	4'-0"	5'-8"	7'-6"	8'-7"	10'-0"	12'-6"		
	(787mm)	(1219mm)	(1727mm)	(2286mm)	(2616mm)	(3048mm)	(3810mm)		

*SECTION NUMBER REFERS TO THE LAST DIGITS OF JOIST DESIGNATION, CONNECTION TO JOIST MUST RESIST 700 POUNDS (3114 N)

MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING								
	BRIDGING ANGLE SIZE-EQUAL LEG ANGLES							
JOIST								
DEPTH	1 x 7/64	1 1/4 X7/64	1 1/2 X 7/64	1 3/4 x 7/64				
	(25mm x 3mm)	(32mm x 3mm)	(38mm x 3mm)	(45mm x 3mm)				
	r = .20"	r = .25"	r = .30"	r = .35"				
12	6'-6" (1981mm)	8'-3" (2514mm)	9'-11" (3022mm)	11'-7" (3530mm)				
14	6'-6" (1981mm)	8'-3" (2514mm)	9'-11" (3022mm)	11'-7" (3530mm)				
16	6'-6" (1981mm)	8'-2" (2489mm)	9'-10" (2997mm)	11'-6" (3505mm)				
18	6'-6" (1981mm)	8'-2" (2489mm)	9'-10" (2997mm)	11'-6" (3505mm)				
20	6'-5" (1955mm)	8'-2" (2489mm)	9'-10" (2997mm)	11'-6" (3505mm)				
22	6'-4" (1930mm)	8'-1" (2463mm)	9'-10" (2997mm)	11'-6" (3505mm)				
24	6'-4" (1930mm)	8'-1" (2463mm)	9'-9" (2971mm)	11'-5" (3479mm)				
26	6'-3" (1905mm)	8'-0" (2438mm)	9'-9" (2971mm)	11'-5" (3479mm)				
28	6'-2" (1879mm)	8'-0" (2438mm)	9'-8" (2946mm)	11'-5" (3479mm)				
30	6'-2" (1879mm)	7'-11" (2413mm)	9'-8" (2946mm)	11'-4" (3454mm)				

K-series--all sections numbers use A307 bolt 3/8" (9mm) diameter. See page 16 for number of rows of bridging required.

BRIDGING FOR STANDING SEAM ROOF SYSTEMS:

Generally, standing seam roof systems will not adequately brace the top chords of the joists with standard SJI bridging. We therefore, recommend that when a standing seam roof system is specified, the design professional specifically state that the joist manufacturer is to check the bridging requirements and provide bridging as required to adequately brace the top chord against lateral movement under full loading conditions.

UPLIFT BRIDGING:

Where uplift forces due to wind are a design requirement, these forces must be indicated on the structural drawings in terms of **net** uplift in pounds per square foot or pounds per linear foot. When these loads are specified, they must be considered in the design of joists and bridging. As a minimum, a single line of bottom chord bridging must be provided near the first bottom chord panel point, at each end of the joist, whenever uplift is a design consideration.*

*See Section 5.11 of the specifications.

