

Table 2: Unique Open Web Joists (Load Tables may be available from SJI)								
System	Figure	Description	Yield Strength	Depth (inches)	Span (feet)	Chords	Webs	Notes
Bethlehem	24	Kalman Truss Joists	See Note 8	8 to 16	4 to 32	T shape	Rectangular	7, 8, 9
	25	MacMar Joists	See Note 10	8 to 16	4 to 32	Angles	Round bars	10
	26	BLJ Series	See Note 11	52 to 60	89 to 120	Structural Tee	Angles	11
	26	BLH Series	See Note 12	52 to 60	89 to 120	Structural Tee	Angles	12
	27	Standard Open Web Joist	See Note 13	8 to 16	4 to 32	Angles	Round bars	13
	28	Longspan Open Web Joist	See Note 14	18 to 32	25 to 64	Angles	Angles	4, 14
	29	BJ Series	See Note 11	24 to 30	24 to 60	See Note 15	Round bars	11, 15
	29	BH Series	See Note 12	24 to 30	24 to 60	See Note 15	Round bars	12, 15
Gabriel	30	Long Span Joist		18 to 32	24 to 64	Angles	Round bars	4
Truscon	19 & 20	O-T (Open Truss) Joists	See Note 1	8 to 20	7 to 40	"Tee" & M shaped plates	Round bars	1
	21	Series AS Joists	See Note 2	8 to 24	7 to 48	U shaped	Round bars	2
	21	Series BB Joists	See Note 3	8 to 24	7 to 48	U shaped	Round bars	3
	22 & 23	Clerespan Joists	See Note 6	18 to 32	26 to 64	"Tee" & angles	Angles & bars	4, 5, 6

**Notes:**

1. Web allowable stress: 19,000 psi - 100(l/r); Chord allowable stress: 16,000 psi.
2. Cold formed chord allowable tension: 25 ksi; Hot rolled web members allowable compression: 17,000 psi - 100(l/r).
3. Cold formed chord allowable tension: 28.5 ksi; Hot rolled web members allowable compression: 19,000 psi - 100(l/r).
4. Available as parallel chord, single or double sloped top chord configurations.
5. Chord angles were some times arranged toe to toe for channel configuration.
6. Allowable combined top chord compressive stress: 15 ksi; Allowable bottom chord tensile stress: 18 ksi.
7. Manufactured by punching web opening in blanks such that chords and webs do not have to be welded together.
8. Allowable tensile stress: 16 and 18 ksi.
9. Also marked as Kalman Joist.
10. Allowable tensile stress: 18 ksi.
11. Maximum tensile working stress: 22 ksi.
12. Maximum tensile working stress: 30 ksi.
13. Design tensile stress: 18 ksi.
14. Allowable combined compressive stress at panel points and allowable tensile stress = 18 ksi. Allowable combined compressive stress at mid-panel and compression webs = 15 ksi.
15. Double angle top chord; Round bars bottom chord.