

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 | KalmanTruss 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.

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