Design No. D902
BXUV.D902
Fire Resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted on all cases as to the particular requirements covering the **INSTALLATION** and use of UL Listed products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the customer service staff provided by the product manufacturer listed for the design, since all the necessary information and resources for assembly, installation, and use of the product are admitted to consult the general Guide Information for each product category and page in accordance. The Guide Information includes descriptions concerning alternate materials and alternate methods of construction.
- Only products which bear UL on-product Certification Marks are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

Design No. D902

September 99, 2014

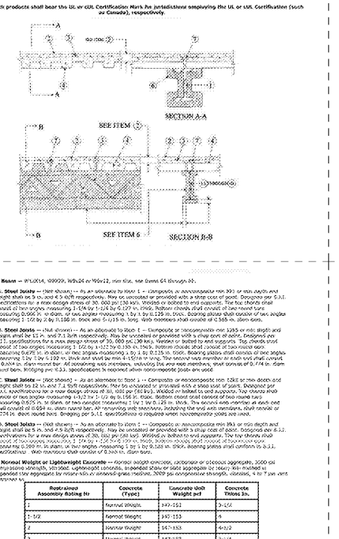
Restrained Assembly Rating — 3, 1-1/2, 2 and 3 Hr.

Unrestrained Assembly Ratings — 0, 1, 1-1/2, 2 or 3 Hr. (See Items 4 & 6)

Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.

This design was evaluated using a load design method other than the Limit State Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit State Design Method, such as Canada, a load resistance factor shall be used — See Guide BXUV or BXUV7.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



2. **Beam** — W10X54, W8X35, W8x24 or W6x12, min size, see Items 6A through 6F.

3A. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 30 in deep joists and weight shall not be less and 6.5 psf respectively. May be uncoated or provided with a wide coat of paint. Designs per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top flat chords shall consist of two angles measuring 1-1/4 by 1-1/4 in. (31 mm). Bottom chords shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3B. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1 by 1 by 0.125 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3C. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3D. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3E. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3F. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

3G. **Steel Joists** — (Not shown) — As an alternate to Item 3 — Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

4. **Steel Joists** — (Not shown) — Min 18 in deep, Type S.J. Composite or noncomposite min 18 in min depth and weight shall be 12 lb. and 7.1 lb/ft respectively. May be uncoated or provided with a wide coat of paint. Designed per S.J. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 2-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.066 in. in diam, or two angles measuring 1 by 1 by 0.125 in. thick. Diagonal plates shall consist of two angles measuring 1 1/2 by 2 by 0.188 in. thick and 1-1/2 in. long. Web members shall consist of 0.585 in. diam bars.

5. **Wire Mesh** — (Not shown) — Optional — Welded wire fabric, min 6 in x 6 in, 10 ga wire, min 2 in deep, min 2 in wide, min 2 in long, hung from joists.

6. **Steel Deck** — Min 1-1/2 in deep, min 0.036 in thick, galvanized steel, Type N, Type B, Type PLB, PLN2.0, B-20, B-22, B-24, 24 or 26 in. wide, Type PLN2.0, B-20, B-22, B-24, 24 or 26 in. wide