UL Product iQ™

BXUV.J804 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. J804

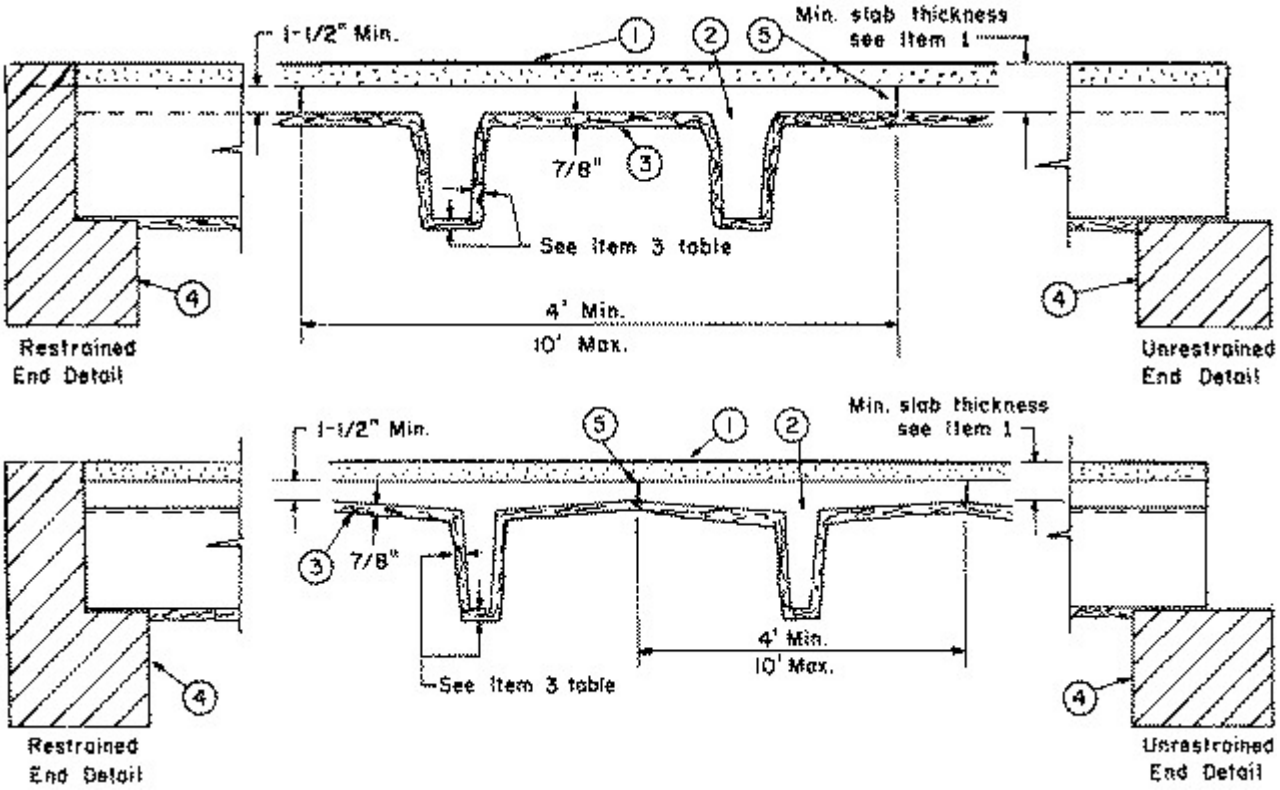
May 07, 2018

Restrained Assembly Ratings — 2, 3 and 4 Hr. (See Items 1, 3 and 3A)

Unrestrained Assembly Ratings — 2, 3 and 4 Hr. (See Items 1, 3 and 3A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction 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.**



1. **Concrete Topping —** (Optional) — 3000 psi compressive strength, 110 to 153 pcf unit weight. Minimum topping thickness — 1 in.

Rating Hr	Min Total Thkns of Concrete In.
2	2
3	3-1/2
4	4-5/8

2. **Precast Concrete Units* —** Normal weight concrete. Single or double stemmed units bearing the UL Classification Marking containing Design Nos. J941 or J944 or bearing the UL Classification Marking J804.
See Precast Concrete Units Category for names of manufacturers.

3. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water, in one or more coats, to a final untamped thickness as shown above and in the tables below, to concrete surfaces which are free of dirt and oil. Tamping is optional. Min avg untamped density of 13 pcf with min ind untamped density of 11 pcf for Types II, II HS, or DC/F. Min avg and min ind untamped densities of 22 and 19 pcf, respectively, for Type HP. For method of density determination refer to Design Information Section.

UL Classification Marking on Precast Concrete Unit	Restrained & Unrestrained Assembly Rating Hr	Spray Applied Fire Resistive Mtl Thk on Stems
J941	2 Hr.	3/4 in.
J941	3 Hr.	1-3/16 in.
J804-A	2 Hr.	13/16 in.
J804-B	2 Hr.	3/4 in.
J804-B	3 Hr.	1-3/16 in.
J804-C	2 Hr.	9/16 in.
J804-C	3 Hr.	1 in.
J804-D	2 Hr.	7/16 in.

J804-D	3 Hr.	7/8 in.
J804-E	2 Hr.	5/16 in.
J804-E	3 Hr.	11/16 in.
J804-E	4 Hr.	1-1/8 in.
J804-F	2 Hr.	5/16 in.
J804-F	3 Hr.	3/8 in.
J804-F	4 Hr.	13/16 in.
J944	3 Hr.	7/16 in.
J944	4 Hr.	7/8 in.

ISOLATEK INTERNATIONAL — Types D-C/F, HP, II, or Type II HS, Type EBS or Type X adhesive/sealer optional.

3A. **Spray-Applied Fire Resistive Materials* —** As an alternate to Item 3 - For maximum 3 hour ratings only - Applied by mixing with water and spraying in one or more coats to the thicknesses shown in the table above (Item 3), to concrete surfaces which are clean and free of dirt, loose scale and oil. Use of Type PC Pre-coat is required prior to the application of Type 300, 300AC, 300ES, 300HS, 300N, SB, 3000, 3000ES, 400AC or 400ES. Type PC Pre-coat shall be applied to cover approx 70 percent of the surface. Thickness of Type PC Pre-coat is included in the total thickness of the protection material. Min average and min individual density of 15 and 14 pcf, respectively, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. For method of density determination, see Design Information Section, Sprayed Material.
BERLIN CO LTD — Types 300, 300ES, 300N or SB.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, or 400AC.

ISOLATEK INTERNATIONAL — Types 300, 300AC, 300ES, 300HS, 300N, SB, 400AC, 400ES, 3000, 3000ES and PC.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, and SB.

3B. **Spray-Applied Fire Resistive Materials* —** As an alternate to Item 3 and Item 3A — For maximum 3 hour ratings only - Applied by mixing with water and spraying in one or more coats to the thicknesses shown in the table above (Item 3), to concrete surfaces which are clean and free of dirt, loose scale and oil. Use of Type PC Pre-coat is required prior to the application of Type 300TW or 400. Type PC Pre-coat shall be applied to cover approx 70 percent of the surface. Thickness of Type PC Pre-coat is included in the total thickness of the protection material. Min average and min individual density of 17.5 and 16 pcf, respectively, for Types 300TW. Min average and min individual density of 22 and 19 pcf, respectively, for Type 400. For method of density determination, see Design Information Section, Sprayed Material.
GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Types 300TW or 400.

NEWKEM PRODUCTS CORP — Type 400.

4. Min Bearing — 3 in.

5. **Grout —** Sand cement grout, 3500 psi, along full length of joint unless concrete topping is used. Weld tie plates may be used in conjunction with grout.

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

Last Updated on 2018-05-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2019 UL LLC"