UL Product iQ™

BXUV.K921

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

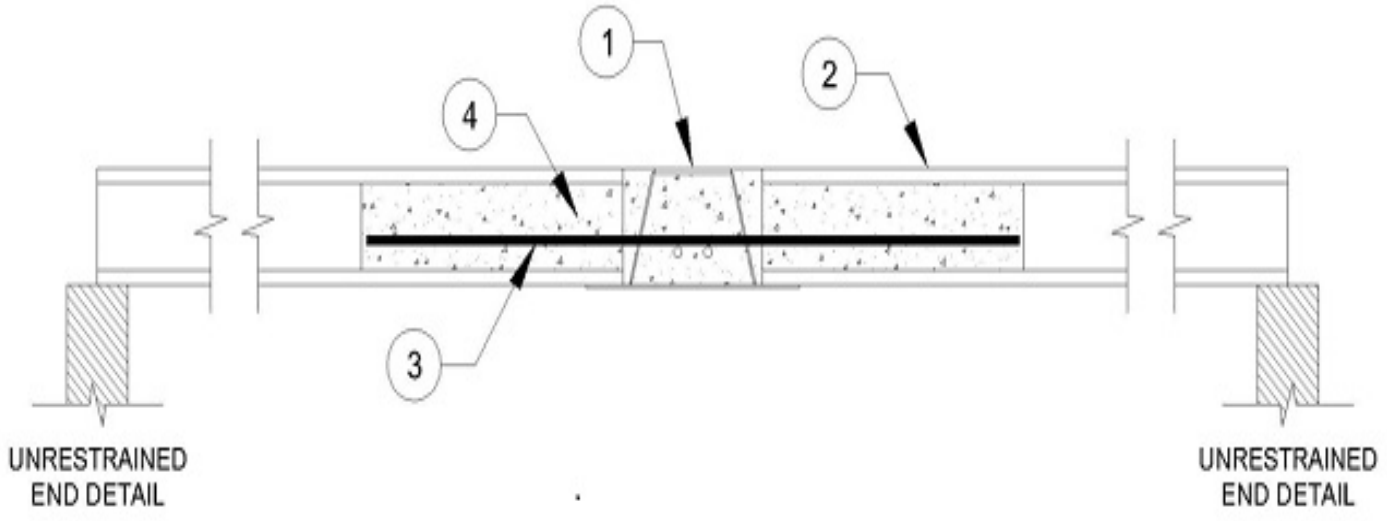
Design No. K921

August 25, 2021

Unrestrained Assembly Rating - 2 Hr

Loading Determined by Allowable Stress Design Method or Load and Resistance Factor Design Method published by the American Institute of Steel Construction, or in accordance with the relevant Limit State Design provisions of Part 4 of the National Building Code of Canada – 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. **Structural Steel Member** * **—** Composite beam system. Min depth 8 in. Min bearing 4-1/2 in.

PEIKKO GROUP OY — Deltabeam

PEIKKO KOREA CO LTD — Deltabeam

2. **Hollow Core Precast/Prestressed Concrete Units —** Min. bearing on the structural steel member shall be 3-3/8 in. At the bearing surface, the max. clearance between concrete unit and the structural steel member is 1-1/4 in.

For USA - The 2 hr unrestrained rating determined in compliance with *Design for Fire Resistance of Precast/Prestressed Concrete* published by Precast/Prestressed Concrete Institute and identified as ICC-ES Evaluation Report ESR 1997.

For Canada – The 2 hr unrestrained rating determined in compliance with National Building Code of Canada.

3. **Transverse Rebar —** Spaced min. 4 ft OC. Supported on the bottom of web openings in the structural steel member and extended into core of concrete units. Diameter and length of the bars determined by calculations in conformance with local building code.

4. **Normal Weight Concrete** - Min. compressive strength of 4000 psi. Concrete shall be vibrated to fill all voids within the structural steel member. The concrete shall extend to the ends of transverse rebars in the cores of the concrete units.

*** 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 2021-08-25
