

BXUVC.D722 - Fire-resistance Ratings

BXUVC - Fire-resistance Ratings

See General Information for Fire-resistance Ratings

Design No. D722

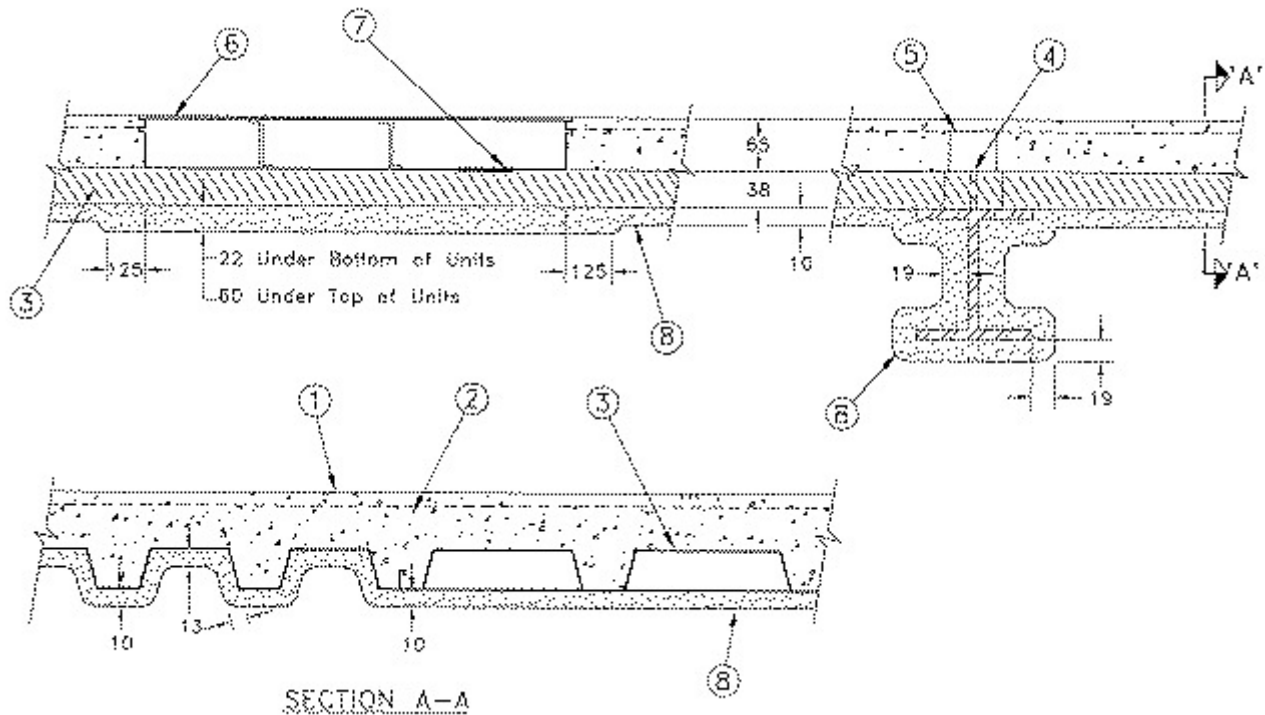
March 25, 2019

Restrained Assembly Rating - 2 h

Unrestrained Assembly Rating - 1-1/2 h

Unrestrained Beam Rating - 1-1/2 h

**Load Restricted — Assembly evaluated in accordance with Working Stress Design methods,
for use under Limit States Design methods; refer to information under Guide BXUVC.**



Beam — (Not Shown)—W150x18, min size.

1. **Sand-Limestone Concrete** — $2320 \pm 50 \text{ kg/m}^3$, 34 MPa nom compressive strength.

2. **Wire Fabric** — 152x152 P9.2/P9.2 steel wire.

• 3. **Steel Floor Units** — (CHWXC). Alternating one 610 mm wide cellular section consisting of 1.22 mm galvanized steel fluted section spotwelded to 1.52 mm galvanized steel flat plate, to one 610 mm wide 1.52 mm galvanized steel fluted

section. Cellular and fluted units welded to supports 200 mm and 300 mm OC, respectively. Adjacent units button-punched 900 mm OC. The thickness of the floor units may be reduced to a min of 0.91/1.22 (cellular) and 1.22 mm (fluted). As alternates the floor may be composed of (1) all 610 mm wide composite cellular units, either 76 mm or 38 mm deep or (2) all 610 mm wide composite fluted units, either 76 mm or 38 mm deep, together with 21 MPa concrete. Allowable loading is to be calculated on the basis of noncomposite design in spans employing trench header. In other spans allowable loading may be calculated on the basis of noncomposite design for noncomposite or composite floor units.

4. **Joint Cover** — 50 mm wide, pressure-sensitive cloth tape.

5. **Shear-Connector Straps** — 2.5 mm uncoated steel, welded to the top flange of the beam through the deck with 3 mm fillet welds, 40 mm long and 150 mm and 200 mm OC for the fluted and cellular units, respectively, on each side of the strap and across the ends.

6. **Trench Header** — Housing constructed of steel with metal edge screeds.

7. **Access Openings** — As required, with grommets.

• 8. **Spray-Applied Fire-Resistive Material** — (CHPXC). Type MK-6/ED, RG or MK-6/HY spray-applied fire-resistive material can be applied to all fluted or alternating fluted and cellular units with a min average dry density of 240 kg/m³ for beam and ceiling with a min individual value of 224 kg/m³. Steel deck surface shall be "spatter" coated with Type SK-3 spray-applied fire-resistive material prior to the application of the spray-applied fire-resistive material. Surfaces of steel shall be free of dirt, oil and scale. When fluted steel deck is used, the area between the steel deck and the beam top flange shall be filled. For method of density determination, refer to General Information Section under heading "Fire Resistance Ratings".

GCP APPLIED TECHNOLOGIES INC

Last Updated on 2019-03-25

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: "© 2020 UL LLC"