

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner
MEA 56-04-M

Report of Material and Equipment Acceptance Division

Manufacturer - A/D Fire Protection Systems, 420 Tapsco Road, Scarborough Ontario M1B 1YA; A/D Fire Protection Systems, 233 Duke Street, Louisa, VA 23093, and Southwest Vermiculite Co., Inc., 5119 Edith Blvd. NE, Albuquerque, NM 87197.

Trade Names-Southwest Fireproofing, Type 5GP, Type 5EF, Type 5MD, & Type 7GP
Product -

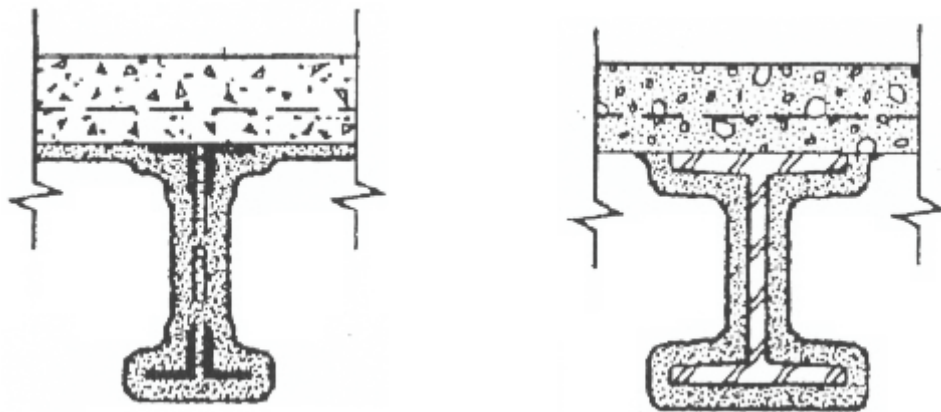
Pertinent Code Section(s) - 27-323, 27-324.

Prescribed Test(s) -

Laboratory - Underwriters Laboratories Inc.

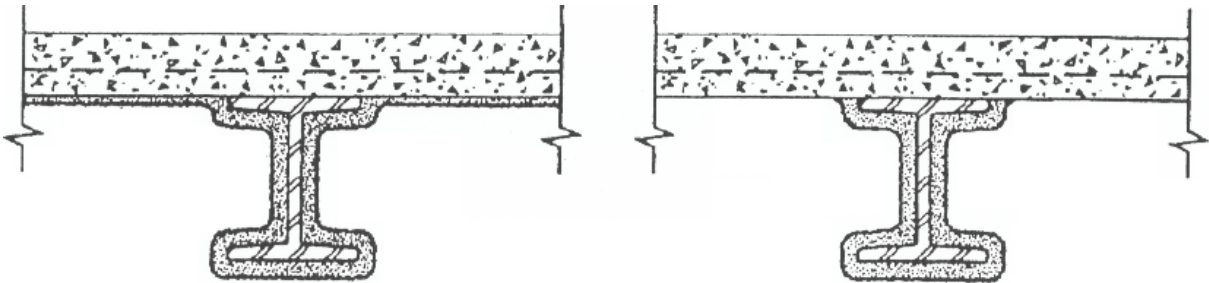
Test Report(s)-UL File R8213 dated March 29, 2000, June 12, 2000, April 5, 2001, February 4, 2003, and June 6, 2003.

Description - Beam and Floor-Ceiling assemblies as per Fire Resistive Design sketched below utilizing Southwest fireproofing Type 5GP, 5EF, 5MD, or 7GP cementitious fire protection material, spray-applied to the required thickness for the fire resistance ratings of V*, %, 1, 1 V*, 2, 3_T or 4 hours and in accordance with Underwriters Laboratories Inc. Design Numbers listed below:



Beam Design Numbers:

N401 for Fire Resistance Rating of 4 hours,
N404 for Fire Resistance Rating of 3 hours,
N706 for Fire Resistance Ratings of 1, V_h , 2, 3, and 4 hours,
N708 for Fire Resistance Ratings of 1, $1V_h$, 2, 3, and 4 hours,
N732 for Fire Resistance Ratings of 1, $1V_z$, and 2 hours, 2, 3,
N736 for Fire Resistance Ratings of 1, V_h , and 4 hours, and
N754 for Fire Resistance Ratings of 1, $1V_z$, 2 hours,
N756 for Fire Resistance Rating of 3, hours,
5701 for Fire Resistance Ratings of 1, V_z , 2, 3, and 4 hours,
5702 for Fire Resistance Ratings of 1, $1\frac{1}{2}$, and 2 hours,
and S715 for Fire Resistance Ratings of 1, $1V_z$, 2, and 3 hours.



Floor-Ceiling Design Numbers:

A702 for Fire Resistance Rating of 3 hours,
D701 for Fire Resistance Rating of 3 hours,
D703 for Fire Resistance Ratings of 1, $1V_z$, 2 and 3 hours,
D704 for Fire Resistance Ratings of $1V_z$ and 2 hours,
D705 for Fire Resistance Ratings of V_h and 2 hours,
D706 for Fire Resistance Ratings of V_h and 2 hours,
D708 for Fire Resistance Ratings of $1V_z$ and 3 hours,
D709 for Fire Resistance Ratings of 2 and 3 hours,
D710 for Fire Resistance Ratings of 1 and 2 hours,
D711 for Fire Resistance Rating of 2 hours,
D712 for Fire Resistance Ratings of 1, V_h and 2 hours,
D715 for Fire Resistance Ratings of 2 and 3 hours,
D716 for Fire Resistance Ratings of V_h and 2 hours,
D722 for Fire Resistance Ratings of 1, $1V_i$ and 2 hours,
D723 for Fire Resistance Rating of 2 hours,
D725 for Fire Resistance Ratings of 1 and 2 hours,
D726 for Fire Resistance Ratings of 1 and 2 hours,
D727 for Fire Resistance Rating of 2 hours,
D728 for Fire Resistance Rating of 4 hours,
D729 for Fire Resistance Ratings of 1 and 2 hours,
D730 for Fire Resistance Ratings of $1V_z$ and 2 hours,
D739 for Fire Resistance Ratings of 1, $1V_z$, 2, 3 and 4 hours,

D740 for Fire Resistance Ratings of 1 and 2 hours, D742 for Fire Resistance Ratings of Vz, 2 and 3 hours, D743 for Fire Resistance Ratings of 1, 1 Vs., 2 and 3 hours, D744 for Fire Resistance Ratings of 1, 1 Vz, 2, 3 and 4 hours, D745 for Fire Resistance Ratings of 1, 1 Vi and 2 hours, D746 for Fire Resistance Ratings of 2 and 3 hours, D747 for Fire Resistance Ratings of 1/2 and 2 hours, D748 for Fire Resistance Ratings of 1 1/2, 2 and 3 hours, D750 for Fire Resistance Ratings of 1 Yz and 2 hours, D751 for Fire Resistance Ratings of 1, IV2, 2 and 3 hours, D752 for Fire Resistance Ratings of 1, 1 Yz and 2 hours, D753 for Fire Resistance Ratings of V/z, 2 and 3 hours, D754 for Fire Resistance Ratings of V/z, 2, 3 and 4 hours, D756 for Fire Resistance Ratings of 1 V2 and 2 hours, D758 for Fire Resistance Ratings of 1 and 2 hours, D905 for Fire Resistance Rating Vh hours, D907 for Fire Resistance Rating of 2 hours, D909 for Fire Resistance Rating of 1 hour, D910 for Fire Resistance Ratings of V/z, 2 and 3 hours, D915 for Fire Resistance Ratings of %, 1, V/z, 2 and 3 hours, D917 for Fire Resistance Ratings of ²A, Vh, 2 and 3 hours, G701 for Fire Resistance Ratings of 1, IV2, 2 and 3 hours, G702 for Fire Resistance Ratings of 1, IV2, 2 and 3 hours, G703 for Fire Resistance Ratings of 1, V/z, 2 and 3 hours, J701 for Fire Resistance Ratings of 1 and 2 hours, J704 for Fire Resistance Ratings of 2, 3 and 4 hours, J705 for Fire Resistance Ratings of 2, 3 and 4 hours, J706 for Fire Resistance Ratings of 2, 3 and 4 hours, J709 for Fire Resistance Ratings of 1, 1'/? , 2 and 3 hours, J919 for Fire Resistance Ratings of 2, 3 and 4 hours, J957 for Fire Resistance Ratings of 1, 2 and 3 hours, and J966 for Fire Resistance Ratings 2, 3 and 4 hours.

Recommendation - That the above described beam and floor-ceiling assemblies be accepted as having the fire resistance rating of four hours maximum, provided that the following requirements for application and protection of the sprayed-on fireproofing be adhered to:

1. Surfaces to receive sprayed-on fireproofing shall be cleared of dirt, grease, oil, loose scale, paint, and any extraneous material immediately prior to application of the fireproofing.
2. The finished fireproofing shall be sprayed to a uniform thickness which shall not be less than the minimum thickness specified. Fireproofing may be finish trowled to required thickness and densities.
3. Density of the sprayed-on fireproofing shall be verified by removing a minimum of three 6-inch square sections, randomly selected from the building and determining the density in accordance with ASTM E605, Standard Test Method for Thickness and Density of Sprayed Fire-Resistive Material (DFRM) Applied to Structural Members.
4. The general contractor and the owner shall provide qualified personnel to supervise the application of the sprayed-on fireproofing. They shall certify to the Department of Buildings that the finished fireproofing of the completed buildings is in full compliance with the acceptable requirements and drawings approved by the Department of Buildings.
5. When the low flange of a beam or the bottom plane of the ceiling assembly construction is less than 9 feet clear above the floor below, all sprayed surfaces shall be permanently protected by a suspended ceiling, or by other means such as mesh screening so as to prevent damage to or displacement of the fireproofing.
6. The material used for protection of sprayed-on fireproofing shall be adequate for its purpose and shall be approved by the Department of Buildings.
7. The installation of the sprayed-on fireproofing shall be subject to the controlled inspection requirements of Section 27-132.
8. The use of this material shall be subject to all pertinent regulations of the Department of Air Resources and the Department of Health.
9. All shipments and deliveries of the materials comprising these assemblies shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance May 20/04
Examined By S. Deshpande