

Bulletin Title: Future Floor Protection Requirements

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To: Fireproofing Sales Team

From: Fireproofing Technical Service Department

The BXUV. GuideInfo for Fire-resistance Ratings at the front of the Underwriters Laboratories Fire Resistance Directory provides guidance on the use of roof insulation in D900 series assemblies. It is a common construction practice to place insulation and a weathering layer on top of concrete in the anticipation of further upward expansion of the structure. The floor is then referred to as a future floor.

Section 20. Roof Insulation reads as follows:

The type and thickness of roof insulation should be as specified in the individual designs. Less than the specified thickness could result in higher temperatures on the roof covering, while a greater thickness of insulation could cause earlier structural failure.

Certified polystyrene insulation, with a density of 5 pcf or less, may be placed on concrete floors or structural concrete roofs without reducing the assembly rating.

When certified mineral and fiber boards, polystyrene insulation exceeding 5 pcf or polyisocyanurate insulation are used over the concrete in D900 Series designs, the unrestrained beam rating is increased by a minimum of 1/2 hr.

Note that this does not affect the beam protection in restrained assemblies, nor does it apply to D700 series assemblies. Beams in restrained future floor assemblies are still protected by using a restrained beam rating equal to the restrained assembly rating.

Further clarifications and any questions that are not addressed in this Bulletin should be directed to your regional manager or Fireproofing Technical Service in Cambridge.