
TECHNICAL BULLETIN TB228

INSTALLATION IN FIRE RATED ASSEMBLIES

Product: RAUPEX[®] Pipe, EVERLOC[®] Fittings and Sleeves
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In commercial and residential applications, fire rated wall and floor/ceiling assemblies are an essential component of the overall fire resistant construction for the building. The national building codes define the requirements for these rated assemblies, which includes the type of construction (framed or concrete), the fire rating of the assembly (2 hours, for example), and loading. For plumbing and hydronic heating installations, it is common to route the piping through these rated assemblies. In this case, building codes require the installed components do not diminish the overall rating of the assembly.

REHAU has completed a series of fire tests with UL and ULC to evaluate the performance of REHAU components in these types of installations. Based on this extensive testing, it has been demonstrated that the inclusion of RAUPEX PEXa pipe and EVERLOC+ compression-sleeve fittings and PEXa sleeves should not adversely affect the overall fire rating of the assembly. RAUPEX pipe and EVERLOC+ fittings and sleeve are UL and ULC listed for installation in fire rated assemblies which includes reinforced concrete slabs, wood-framed floor/ceiling assemblies, framed bearing walls, and framed non-bearing walls. This listing covers Non-Barrier pipe, UV Shield pipe, O₂ Barrier pipe, and EVERLOC+ fittings and sleeves in 3/8" through 2" sizes.

The fire resistance listings for the aforementioned components have been tested to and meet the following standards:

- ANSI/UL 263, “Fire Tests of Building Construction and Materials”
- CAN/ULC-S101, “Standard Methods of Fire Endurance Tests of Building Construction and Materials”

The following design listings can be found on the UL and ULC online certifications directory (www.ul.com and www.ulc.ca)

Fire Rated Assembly Description	UL Design No.	ULC Design No.
Reinforced Concrete Slab	No. K917	No. J900
Wood Framed Floor/Ceiling Assembly	No. L588	No. M516
Combustible Bearing Wall	No. U383	No. W316
Combustible Non-Bearing Wall	No. V461	No. W458

When using RAUPEX pipe or EVERLOC+ fittings and sleeves in these types of applications, the specifying engineer and designer should evaluate the design listings to ensure that local code requirements are met. In addition the authority having jurisdiction should review and approve the design before installation.

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