



# PLANO FIRE-RESCUE

## Firefighter Air Replenishment System Guidelines

### Air Replenishment Guidelines

Emergency responders need a reliable air replenishment system in high-rise and large area buildings. Plano Fire-Rescue has adopted appendix L of the International Fire Code. This guide is provided to assist designers and installers with meeting the needs of Plano Fire-Rescue for providing reliable air within a structure.

The design and installation is required to follow the International Fire Code and the following:

#### ***Appendix L; Requirements for Firefighter Air Replenishment Systems***

#### ***Sec. L101; add new Section L101.2 to read as follows:***

***Sec. L101.2 Required Location.*** In new buildings, fill stations shall be required when any of the following conditions occur:

1. Any new building 5 or more stories in height.
2. Any new building with 2 or more floors below grade.
3. Any new building 500,000 square feet or more in size.

Each stairwell shall have a supply riser. SCBA fill stations shall be located on odd numbered floors in the primary stairwell and on even numbered stairs in the secondary stairwells. The primary stairwell will be the stair located closest to the main entrance.

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Plans and specifications shall be submitted to the fire department for review and approval prior to installation. Plans and specifications shall be from a Firefighter Air Replenishment company and sealed by a Texas licensed PE.

Each system shall have an on-site cascade system capable of refilling 50 air bottles. A minimum of one external air fill station will be required. Depending on the size of the facility and complexity, more than one external air fill station may be required.

Air monitoring shall be required at a location approved by the fire department. All conditions required by the code shall be monitored by the fire alarm system.

To schedule an Air Replenishment System inspection, please complete an online request at [plano.gov/fireinspectionform](http://plano.gov/fireinspectionform).