

# Facts

## Average Fire Statistics for Past 10 Years:

- 3,097 civilians that lost their lives because of fires.
- 16,206 civilian injuries that resulted from fire.
- 118 firefighters killed while on duty.
- More Americans died from fire than all natural disasters combined.
- \$14.1 billion total property loss due to fire, not including forest or wildfires.
- An estimated 32,500 intentionally set fires, resulting in 315 deaths and \$866 million in property damage.

## Residential fires account for:

- 78% of all fires
- 84% of all fire deaths
- 81% of injuries
- Average loss of \$6.4 million worth of damage.
- With all masonry homes, we hope to decrease those numbers by 85%.

A. Duchini Inc is looking to save lives and build awareness towards fire safety. Creating a masonry structure is better for the environment, cheaper for the owners and saves the lives of our loved ones.

Sprinkler systems are affective, yet they still only have an 84 percent reliability rate compared to masonry units with a containment of 95 percent of the time with no openings and 90 percent with opening due to pipes. Providing both masonry and sprinkler systems will help douse any chance of there being a fire.

# Masonry v Fire

When it comes to masonry block versus fire, fire always ends up being extinguished by masonry block.

With an average containment of smoke and fire of two to four hours without having the need to be replaced, masonry units are the only way to go when building residential housing. During those extra hours, firefighters are able to put out the flames and save valuable lives and property dollars that are lost during fires.

Masonry homes are able to withstand fire at a much higher degree and longer time than traditional wood framed homes, where fire can spread from one room to the next in a matter of seconds.

Masonry Block v Fire		
Masonry Block Width in Inches	Block Cell Treatment Hours without Damage.	
	Partial-Fill Cells	Solid-Fill Cells
4"	1 Hour	1 Hour
6"	1 Hour	4 Hours
8"	2 Hours	4 Hours
10"	3 Hours	4 Hours
12"	4 Hours	4 Hours

Source: National Fire Protection Association & USFA

# Savings

Forty-one cities were evaluated and studied to determine the least expensive method for building new construction. The results are in and the fact is that units made with masonry walls and flexi-core floors and roofs have an initial saving of 3 percent over the traditional wood framed building during the building process. [www.pafscac.org](http://www.pafscac.org)

## Multifamily Building Comparison between Masonry Block and Wood-Frame Buildings

City	Framing Method Used	Costs For High Rise Construction	Saving % Compared to Wood Framing
Pittsburgh, PA	Masonry	\$13,655,083	2 %
	Wood	\$13,902,770	0 %
Philadelphia, PA	Masonry	\$15,137,073	4 %
	Wood	\$15,778,935	0 %
Cleveland, OH	Masonry	\$13,925,591	2 %
	Wood	\$14,266,168	0 %

[www.firesafeconstruction.com](http://www.firesafeconstruction.com)

## Hotel Comparison between Masonry Block and Steel Frame Hotels

“Concrete masonry saves hotel project \$900,000-plus, time over steel frame.” The building was constructed in Pittsburgh, Pennsylvania and is going to be the home of the new North Shore Residence Inn. (Concrete Monthly Vol.8 No.9 September 2009)

# Insurance Savings

Below is a comparison of an insurance estimate for a three-story, six-unit, multifamily apartment complex. Estimates may vary from city to city, but will always result in masonry being much cheaper to insure.

Occupancy Apartment Building three story, six unit		Precast Concrete Roof & Floors, Brick/Block Walls	Wood-Frame Walls, Floors & Roof
Type of Insurance		Annual Premium	Annual Premium
Building	Fire	\$150.82	\$3,438.53
	Extended	\$80.00	\$876.00
Contents	Fire	\$88.50	\$131.58
	Extended	\$20.00	\$219.00
Total Annual Premium		\$339.32	\$4,665.11
Total Monthly Premium (All Units)		\$28.28	\$388.76
Total Monthly Premium Per Unit		\$4.71	\$64.79

[www.firesafeconstruction.org](http://www.firesafeconstruction.org)



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- Patio block
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- Fireplace mantles
- Fire pits
- Basement windows
- Mortar
- Masonry tools



## Masonry v Fire

Building and Supporting Erie Since 1932

*“To exceed our customers expectations while providing quality masonry materials, supplies, and service to the greater Erie area as we grow and improve as a leader within our market.”*

A. Duchini Inc, the tri-state areas largest manufacturer of block and related masonry products, has been supplying high-quality building materials to the construction industry for generations. Throughout the region, professional contractors, builders and do-it-yourselfers know they can count on A. Duchini for quality and service.

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