

CASE STUDY



THE NEW AMERICAN HOME 2013

Built to the National Association of Home Builders (NAHB) National Green Building Standard and the Department of Energy's (DOE) Energy Star® Program

New American Home 2013 - NGBS "Emerald" Status Showcase Home in Henderson, Nevada Features Spears® Manufacturing Company FlameGuard® CPVC Fire Sprinkler Products

The nearly 6800-square-foot, three-story New American Home 2013, built in Henderson, Nevada outside of Las Vegas, is unique compared with any other showcase home. Built using state-of-the-art green building technologies, this modern beautifully designed home also includes zero line swimming pools, fountains and solar elements. What makes this home distinct is that it has achieved "Emerald" status, the highest level of the National Association of Home



Builders (NAHB) National Green Building Standard (NGBS) and the Department of Energy's (DOE) Energy Star® program. Great attention to detail was given to the selection of products used in the home to ensure a focus on sustainability and energy efficiency.

The fire sprinkler system selected was fully comprised of Spears® FlameGuard® CPVC Fire Sprinkler Products. From an environmental standpoint, a CPVC fire sprinkler system offers lower energy consumption to produce than other piping materials and favorable greenhouse gas emission ratings during production. Plus, CPVC fire sprinkler systems result in lower material and labor cost compared to PEX or metallic systems.

FlameGuard® CPVC offers superior fluid mechanics as well as low flame spread and smoke characteristics. CPVC will not support combustion and stops burning as soon as the ignition source is removed. CPVC also provides a cost advantage over the smaller internal diameter of PEX. Since PEX is copper tube size (CTS), pipe has to be upsized for suitable hydraulics due to the



much smaller internal diameter. CPVC Installation is fast, can be easily changed or added to in the field, and is significantly less expensive than steel when you take into account the material and labor savings.

The entire New American Home 2013 was sprinklered with 1630 feet of 1" FlameGuard® Pipe, 100 Tees and 80 Spears® TorqueSafe™ Head Adapters.

On Guard Fire Protection in Henderson was the fire sprinkler contractor on the project. "Spears® excels in providing a full range of products that most CPVC manufacturers don't have, from a broad range of fittings and pipe to valves and solvent cement. The flexibility of this product line makes it easier to install the fire sprinkler system as it was intended - in the most cost effective way.", said Bobby Tavakoli, president of On Guard Fire Protection. "With the years Spears® has spent in producing CPVC based piping and fittings, you feel confident that they know what they are doing and that they will stand by the product 100%."

Kris Oesterling, Project Manager for Las Vegas home builder, Blue Heron, a Certified Green Professional says, "I am very pleased with the decision of our fire sprinkler contractor, On Guard Fire Protection, to use Spears® FlameGuard® CPVC Fire Sprinkler Products on their Blue Heron projects. The wide variety of

As a result of these endeavors, Spears® has developed a true no-waste manufacturing process, not only in terms of raw material utilization but also in energy management. The result has been unparalleled conservation in both equipment operation and product distribution.

From the development of conservation-oriented processing to the continual introduction of innovative thermoplastic pipe, fittings and solvent cement products, Spears® has provided some of the most durable, corrosion resistant, long life and economical products available. These products are the foundation of greater sustainability in today's green building construction.



products available in the FlameGuard® product line makes the installation of a quality fire sprinkler system a smooth and efficient operation. This helps me as a Project Manager to make sure projects are completed on time."

For over 40 years Spears® commitment to environmentally responsible products provides One Source Pipe, Fitting and Solvent Cement System Component benefits surpassed by none! Preservation of our earth's resources, reduction of waste and maximizing energy efficiency have been an integral part of Spears® Manufacturing Company's basic operations and commitment to the environment.

Type of Construction:
Residential – Single Family

Installation Type:
New

Green Building Achievement:
NGBS "Emerald" Level



Progressive Products From Spears® Innovation & Technology



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