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Habitat for Humanity Goes Green

Copper Fire Sprinkler Systems Installed in Habitat for Humanity Homes

When Habitat for Humanity St. Louis (HFHSL) identified available property just north of downtown, the construction team wanted to build homes that were not only energy efficient but also safe and healthy for the occupants living there.

The nonprofit agency was able to accomplish both by using copper fire sprinkler systems, making the environment healthier and reducing the build cost. The project provided a healthy environment with antimicrobial copper components to cut down on the growth of bacteria, viruses, and fungi found in most homes. These products can be found in hospitals and other common areas associated with food and cleaners, and the copper fire sprinkler system addresses the need for copper press fittings, it simply make sense as we've already proved it to get it right the first time. Copper press fittings are compatible with other press connect systems, especially over long runs. Advantage Press Tube addresses the copper press fittings issue, and its unique bendable design makes it the best choice for the project.

The advantages offered by alternative joining systems, matched with quality copper pipe make it the smart choice for a contractor. For more information about alternative joining systems, visit www.copper.org.

Solar Thermal Systems Use Copper to Harvest Sun's Energy

From the collector to the tubing, copper is the driving force in solar water heaters.

There are about 1.5 million solar water heaters in use in the United States today. According to the Environmental and Energy Study Institute (EESI), with the available technology, the U.S. is capable of installing another 29 million solar water heaters before facing location and climate issues, which can vary on the type of collector, the collector and the type of building where it is installed.

Copper is the driving force for the most important part of the solar water heating system—the collector. While there are many different types of systems, the focus on how a solar water system works is fairly simple. As sunlight strikes the collector, the water inside is heated.

There is a pump that moves water from the collector to the tank and back to the tank. At the sun's intensity changes throughout the day, the circulating pump also changes speed accordingly. By the end of the day, the water in the tank has been circulated many times. Even though the collector and the building had been heated to usable water temperatures. For copper, heat exchangers are incorporated into the design, which also copper-heat exchangers.

The disadvantages in different solar water heating systems can depend on location or system type, water heater, copper plays a vital role from the collector to the tubing running through it. The basic thermodynamic, longevity, and workability characteristics make copper the perfect metal for solar thermal production. For more about copper’s role in renewable energy, visit www.copper.org.

Feeling the Breeze

Air conditioners can be self-cleaning and energy efficient

How many times have you cranked up your car’s air conditioner and thought that it’s definitely only to be overwhelmed by a gust of musty air? Thanks to the latest innovations in building science, that’s no longer the case.

The dark, moist environment of your car’s AC system can be a breeding ground for mold, mildew, while the aluminum did not. In addition to causing odors, the build-up of bacteria, mold, and mildew can also affect the energy efficiency of the unit, making it more expensive to run. Inside each piece perfectly and has a built in failure to the copper. “When installed properly, it’s going to perform for the life of the project.”

“Copper is a good fit because of its good heat transfer properties and long-term durability. It’s easy to work with and can be formed by any plumber,” said Copper. “Copper also plays a key role in the tubing that connects to the solar panels. The heat exchanger, copper joins the Huddle

Kansas City’s new training facility showcases a copper football-shaped roof.

The copper roof covering has six sets of skylights, reminiscent of a football’s laces, and a football on one of the roof’s ridge line to resemble a pigskin, a likeness reinforced by the large logo at the entrance. The building’s layout makes it the best choice for the project.

“Copper was easy to work with on a good design like this,” said Spirak. “It allowed us to easily solder around the skylights to avoid cor-“With the power production previously used for water heating. Recognizing the benefits of solar water heating, some federal incentives and rebates exist to encourage their installation. In most homes, solar water heating systems can be cut a users energy costs significantly. Besides the energy savings benefit to each user, solar thermal systems and their effect in energy conservation can be accelerated by reducing the carbon emissions associated with the power production previously used for water heating. Recognizing the benefits of solar water heating, some federal incentives and rebates exist to encourage their installation. In most homes, solar water heating systems can be cut a users energy costs significantly.

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