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Corporate Headquarters: 1800 South 52nd Street Suite 400 Rogers, AR

www.hpengineeringinc.com



- HP Engineering Inc. is dedicated to simplifying MEP. We provide production drawings in both AutoCAD and Revit MEP format.
- We also offer a variety of specialty services: Our energy services division provides the following: energy audits and analysis, energy modeling and various commissioning services for new and existing buildings.



### Project in Focus :

At HP Engineering Inc. we strive to meet the needs of all our clients and exceed their expectations. We will take a look each month at a project we've recently completed. This month's project is the Cherokee Nation Community Services Self-Help Housing Program. The Cherokee Nation has used structurally insulated panels (SIP) in their self-help program for several years now. They have recently received recurring complaints of condensation and mold

from the homeowners. It seemed the tight construction of the homes was preventing the moisture generated by daily activities from escaping.

We were asked to evaluate the situation and find a solution to the problem. Through various testing procedures we confirmed that moisture was unable to escape the building envelope of the home creating high humidity levels. This along with non-insulated slab edges contributed to mold issues in each home. Our solution was to provide a small amount of ventilation

air through a heat recovery ventilator to maintain the energy efficiency of the SIP construction. A simple design that will easily be incorporated into existing homes and all future homes. To eliminate the cold surfaces that allows the humidity in the space to condense, we also recommended that all slabs be insulated to prevent future issues. After these corrective measures have been implemented to address the humidity levels and condensation in the homes, mold remediation will begin in the homes that have experienced mold growth and will be prevented in future homes.



This section will provide useful information and sometimes it will be just for fun...

Facts, Info, etc...

#### SIP Construction:

For more information regarding structurally insulated panel construction, please visit their website: [www.sips.org](http://www.sips.org)

#### REALgreen Conference & Expo:

If you are interested in finding out more about sustainability in the real world, plan on attending this upcoming conference and expo. It will be in Rogers, AR. From May 19-22. CEU credits will be available for AIA and USGBC members. Go to [www.real-green.info](http://www.real-green.info) for more information.

#### Redwood Systems:

Are we entering the next generation of lighting and control

technology? Redwood Systems claims they provide the industry's only LED lighting control and building intelligence platform proven to deliver both ongoing energy savings and workspace productivity enhancements. They were recently awarded a \$1 Million grant from the Department of Energy. More information can be found @ [www.redwoodsystems.com](http://www.redwoodsystems.com)

