



Case Study

COMMUNITY:

The Fields/American Homes 4 Rent
Syracuse, UT

CONTRACTOR:

Royal Plumbing, Heating & Air
Ogden, UT

60% reduction in rough-in installation labor time

Situation/Overview

American Homes For Rent was looking for a more efficient way to install air distribution ducts within The Fields community located in Syracuse, UT. The community is using open web 16" Joists and the girder trusses were creating installation challenges, as the conventional rigid round pipe ducts were being "pinched" as they were squeezed through the tight openings – creating a significant increase in static pressure, which will ultimately lead to comfort issues in the future.

Install

American Homes For Rent has converted several new communities from conventional to Rheia in Utah, Idaho, Washington, and Colorado. The Fields Community was in the middle of a production phase when they decided to convert to Rheia. Using the same Daikin condenser, evaporator coil,

and gas furnace the contractor installed the 3" Rheia ducts with a 26g sheet metal manifold.

Results

The 3" Rheia ducts easily fit through the openings of the girder trusses with no pinching and no need for mastic, tape and panduit straps to connect the duct connections. Using a six-man crew the contractor, Royal HVAC, was able to install the Rheia air distribution ducts in four hours (including training time) as compared to conventional air distribution ducts which took 10 hours using six men. A 60% reduction in installation time.

After the pilot, Rheia will be installed in the remaining 25 homes at the Fields. American Homes For Rent is working towards converting Rheia in all their upcoming communities. The contractor has indicated they would prefer to use Rheia on all their projects.

