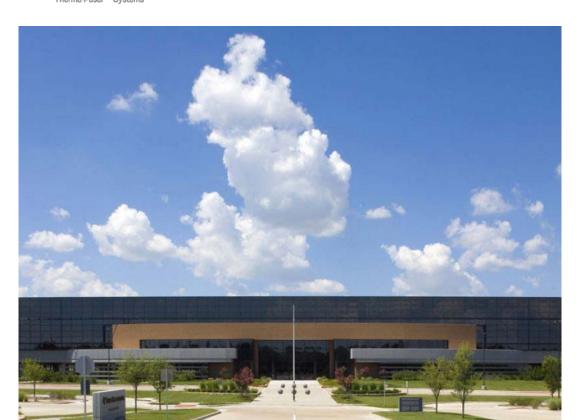


TEXAS INSTRUMENTS RFAB











PROJECT NAME Texas Instruments RFAB

CLIENT Texas Instruments

LOCATION Richardson, Texas

MARKET SECTOR Office

BUILDING SIZE 220,000 sf

PROJECT COMPLETION 2008

CONSTRUCTION TYPE New Construction

SUSTAINABILITY LEED® Gold Certified

THERMA-FUSER SYSTEM CONFIGURATION Option 1: Therma-Fuser Stand Alone Diffusers

AWARDS

World's first LEED Gold certified fab

COLLABORATORS

- Architect: Page Sutherland Page
 MEP: Integral Group

Learn more about this project at acutherm.com

PROJECT DESCRIPTION

Texas Instruments RFAB is the world's first LEED Gold certified fab and is among the most advanced semiconductor manufacturing facilities in the world. It has been lauded as a landmark example of how advanced technology can allow a U.S.-based semiconductor producer to stay competitive with manufacturers in lower-cost locations such as Asia.

When Texas Instruments began planning to build a new 1.1 million square foot wafer fab complex in Richardson, Texas it had to be competitive with manufacturers in lower-cost locations around the world. Wafer fabs, which produce semiconductors used in a myriad of electronic devices, are enormous factories and therefore consume a large amount of resources. Costing \$3 billion dollars to fully build and equip each one, they are also quite a large investment. In order to keep this fab in the US, the TI design team was challenged with a 30% capital cost reduction goal.

The TI team chose data and analysis over rules of thumb and standard designs. By continuing to drill down into issues and understand the root of problems they were able to make a number of fundamental changes to how fabs are designed. The desire to score another LEED point kept everyone energized to continue digging for a solution.

The energy saving and sustainable design, that ultimately achieved LEED Gold, utilized a Therma-FuserTM VAV System throughout the three-story 220,000 square foot administration building.