

# Stone-Coated Steel Case Study

## Benefits of Over-the-Deck Venting

Oak Ridge National Labs conducted a study (commissioned by the Department of Energy's Buildings Technologies Program) on infrared-blocking color pigments. Ten decks were tested for one year to include both summer and winter Conditions.

The results of the study?

**Heat transfer was reduced by approximately 45%**

- 15% could be attributed to the IR-pigment granules
- 30% was attributed to batten/counter batten installation (over the deck venting).



## Installation of Stone Coated Steel Reduces Heat Transfer



Allowing **hot air** to escape substantially reduces heat gain.

The Batten System allows free air to pass between the roof deck and metal panels.

**CREATES FREE AIRFLOW & GREATER EFFICIENCY**

**"Venting of the stone coated metal roofs is just as important as the boost in solar reflectance for reducing the heat gain into the attic and conditioned space."**