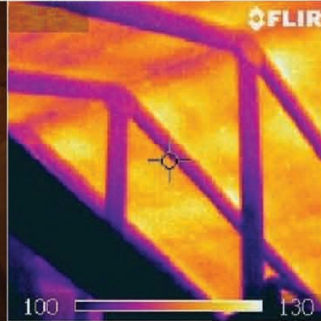


Therma Sheet ROOFING UNDERLAYMENT

**METAL ROOFING
STONE COATED STEEL
CONCRETE • CLAY TILE
ASPHALT SHINGLES**



4/7/09 Existing roof before replacement. Span of IR image rset at 100-130°F for optimum image quality.



5/13/09 New roof tile over Therma Sheet. Span of IR image reduced to 91-101° F to match original 4/7/09 image. Attic temperature has been lowered 30°F with the addition of Therma Sheet.

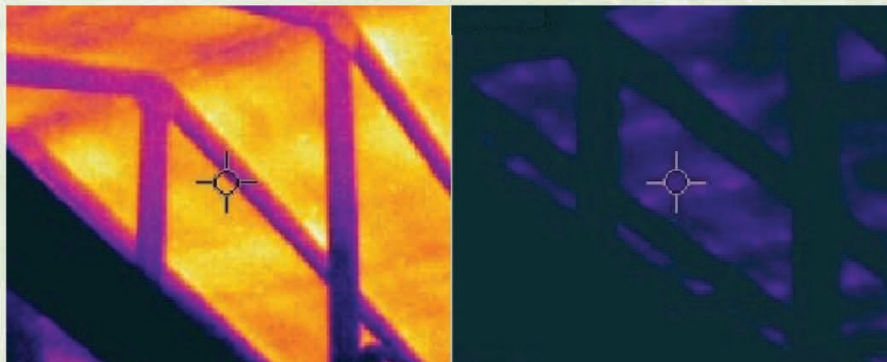
On April 7th, 2009 a five-week documentation on a project involving the installation of a new cement tile roof - using LOW-E® THERMA SHEET as underlayment - was conducted by a third party Certified IR Thermographer.

The project consisted of removing the old cement tile roof and underlayment, and replacing it with new cement roof tiles and new felt - this time with the addition LOW-E® THERMA SHEET over the felt paper.

The first IR photos taken prior to the cement tile being removed - April 7th, 2009 at 11:00 a.m. with outside temperatures at 92 degrees.

The second IR photos taken at the completion of the project - May 13th, 2009 at 11:00 a.m. with outside temperatures again at 92 degrees.

As demonstrated by the photos - with the addition of LOW-E® THERMA SHEET as an underlayment - the attic temperature was reduced a minimum of 30 degrees.



Before Therma Sheet Underlayment

After Therma Sheet Underlayment



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Therma Sheet

ROOFING UNDERLAYMENT



Temperature
Reduced 30 Degrees



ASPHALT SHINGLE



UNDERSIDE OF PLYWOOD

With LOW-E



ASPHALT SHINGLE



UNDERSIDE OF PLYWOOD

Without LOW-E



This study was not third-party certified and was conducted for demonstration purposes to exemplify the results that LOW-E Therma Sheet can achieve in systems without a reflective airspace.

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