



Visual and Thermal Areal Roof Inspection

Customer

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Provider

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Roof Information

Type	Residential / Asphalt Shingle
Age	15 Years
Pitch	25°

Summary

Several potential roof defects were detected in the thermal or visual images.

Anomaly Type	Defect Count
Amorphous	7
Board-Stock	0
Picture-Framed	0
Areas of Concern	2

Service Conditions

How the service conditions match the industry standard for locating wet insulation.

	Thermal Service Conditions	AESTM C11543-10
Date	10/13/2025	
Time	20:00 (1 Hour after Sunset)	1 Hour After Sunset
Temperature	73F	
Cloud Cover	Fair	Fair
Wind Speed	N 0 mph	< 15.5 mph
Humidity	80%	
24 Hour Precip Level	0"	0"
Survey Type	Areal	Areal or Ground
Drone Make & Model	DJI Matric 4T	
Thermal Camera Spectrum	8-14 μ m	2-14 μ m

Visual Analysis

Overview



The visual analyses show 2 missing shingles from the hip on west corner of the house. Those shingles are still present in a valley above.

Anomaly Closeups

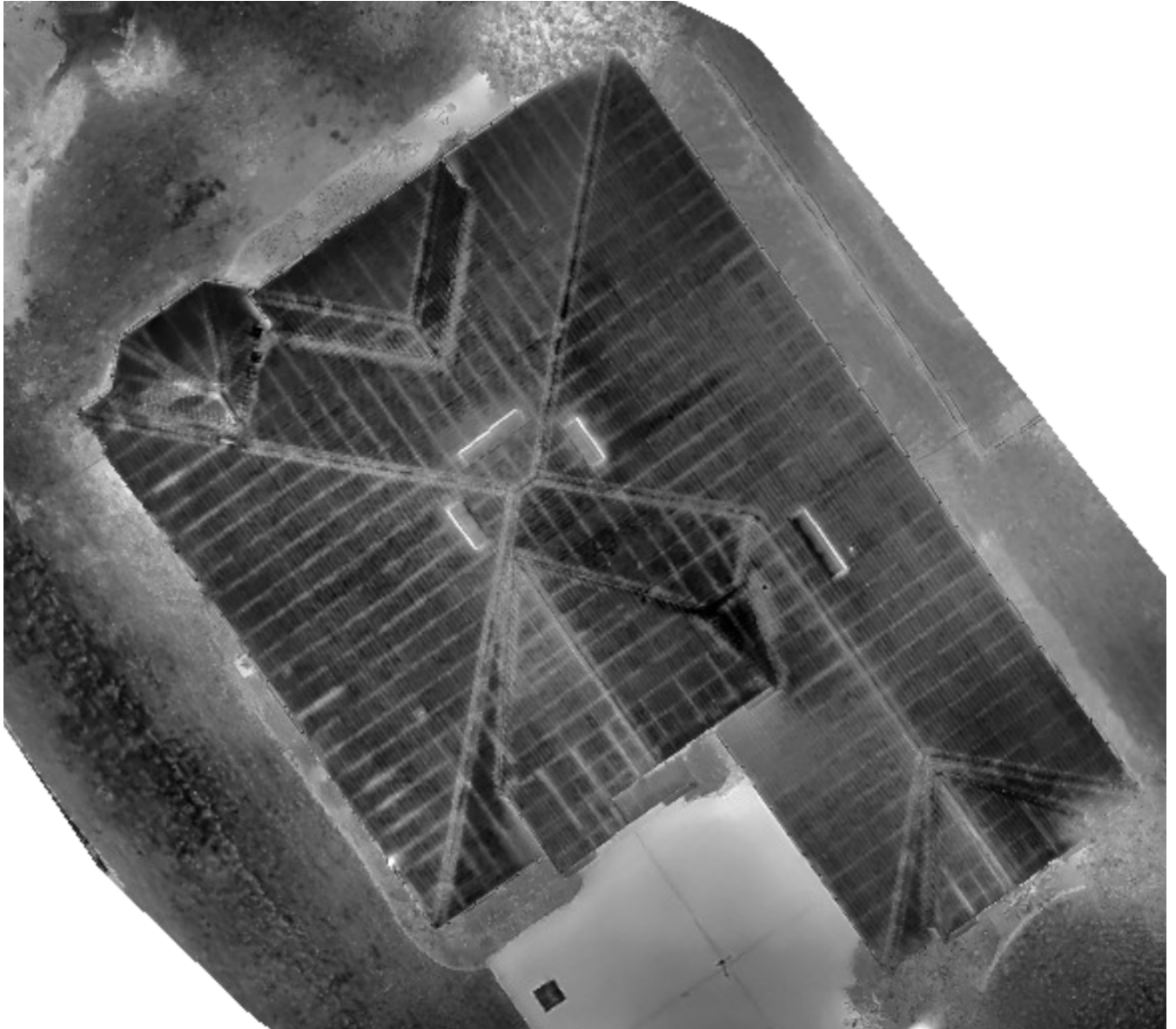


At least two missing shingles from the roof hip.

Thermal Analysis

The images below are in the white-hot palette, meaning the cooler areas are black and the hotter areas are white.

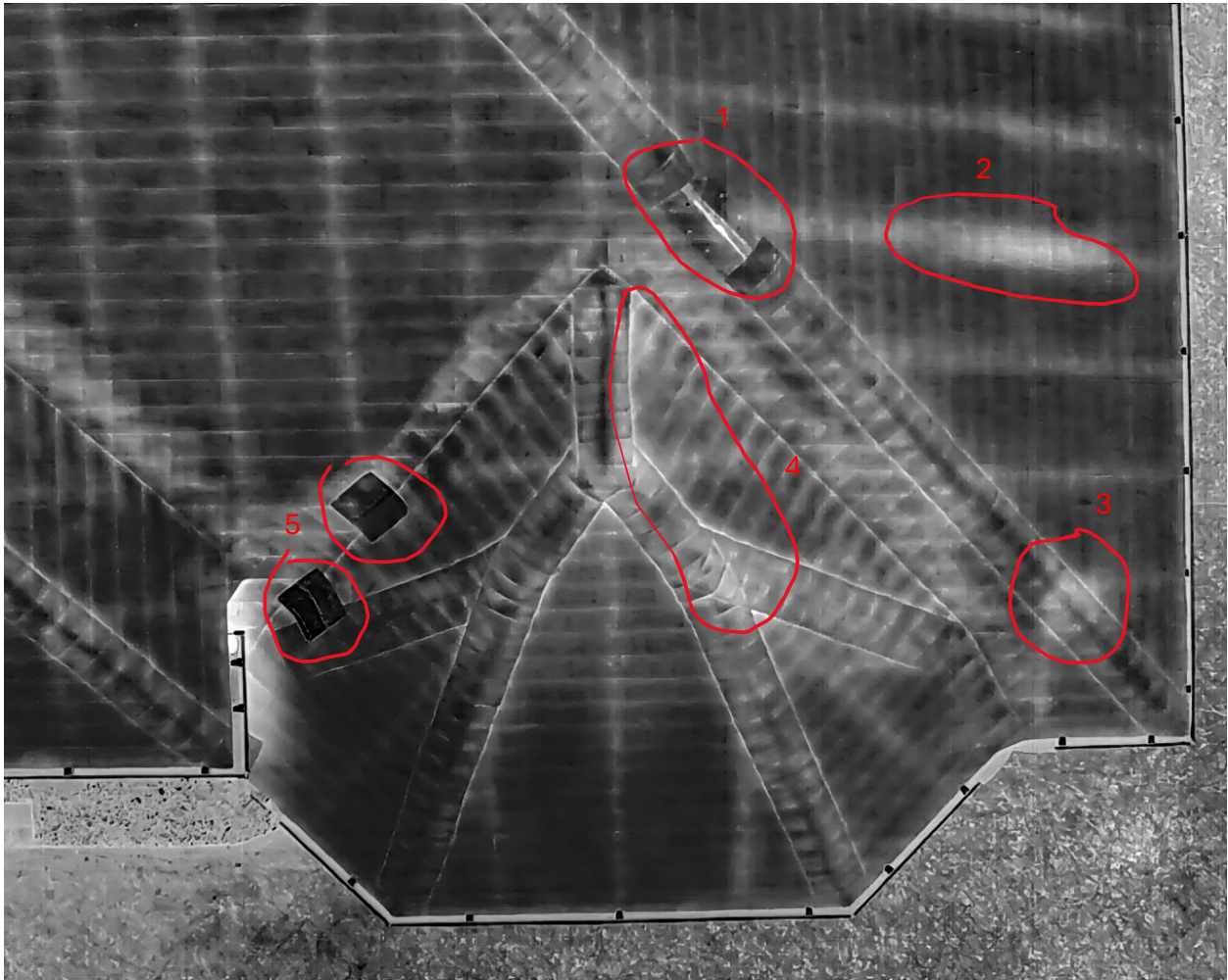
Overview



Anomaly Closeups

The images in this section are presumed to be a defect meaning a follow up is needed for verification. There are several conditions that may cause a part of the roof to appear warmer or colder which are not related to moisture intrusion.

Image 1: West Corner

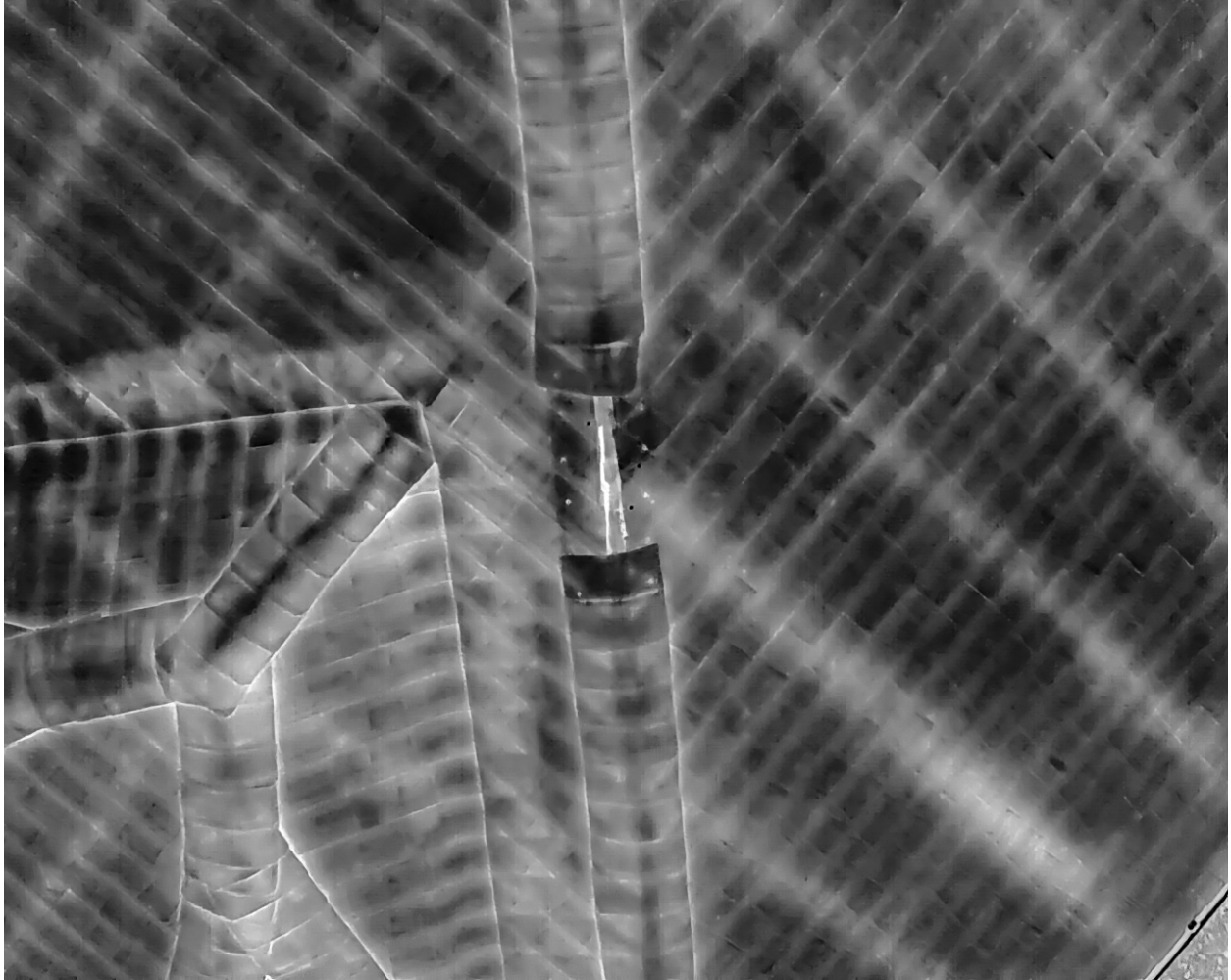


Shingles are missing from hip allowing water intrusion to the roof structure. The proximity of the amorphous anomalies 1 and 2 could be caused by water running down the roof structure. There is one area of concern (labeled 4) that presents warm relative to the rest of the roof.

1. Missing shingles
2. Amorphous anomaly 1
3. Amorphous anomaly 2
4. Area of concern 1

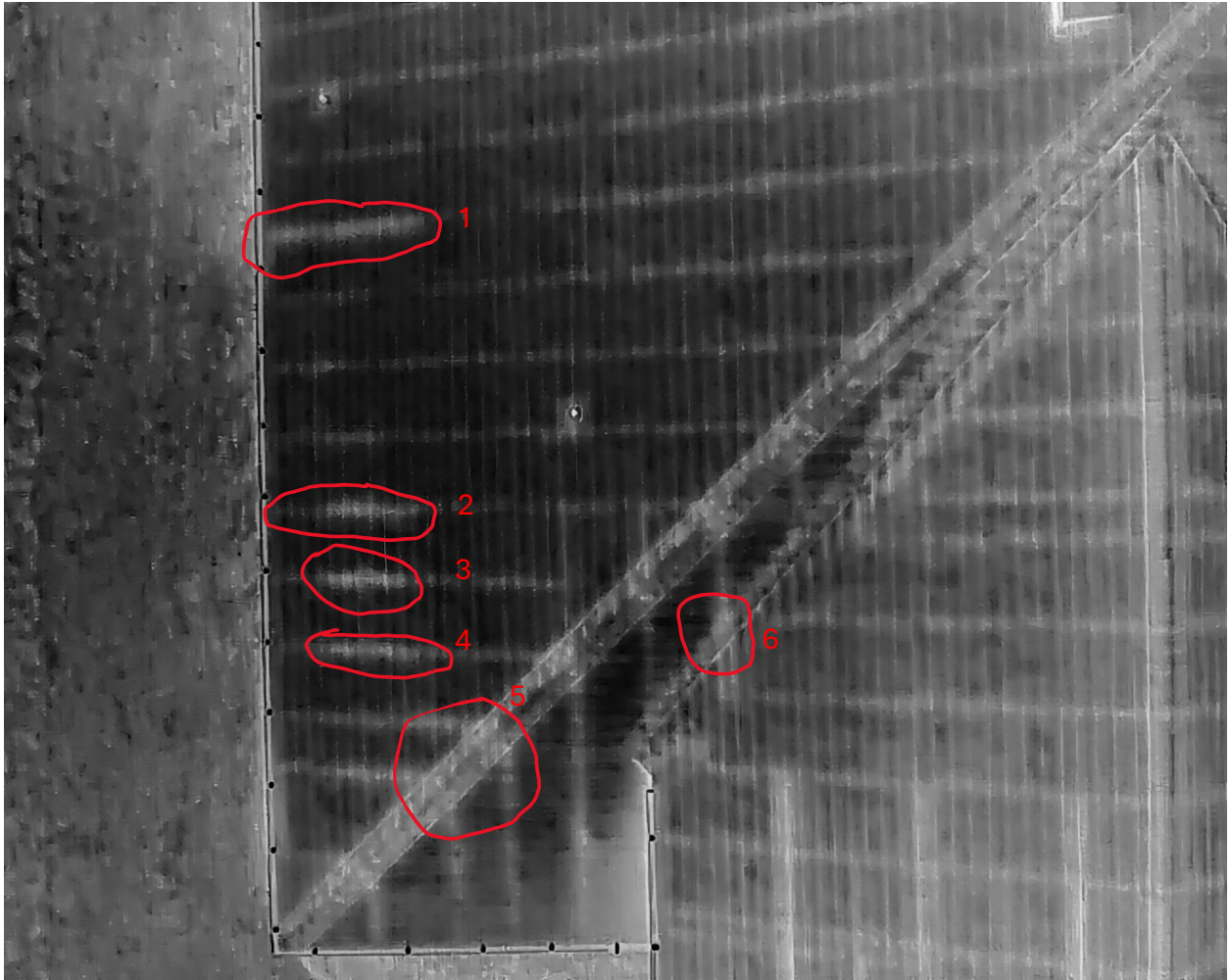
5. Loose shingles

Image 1-a: West Corner closeup



A closer thermal image of the missing shingles presented in Image 1.

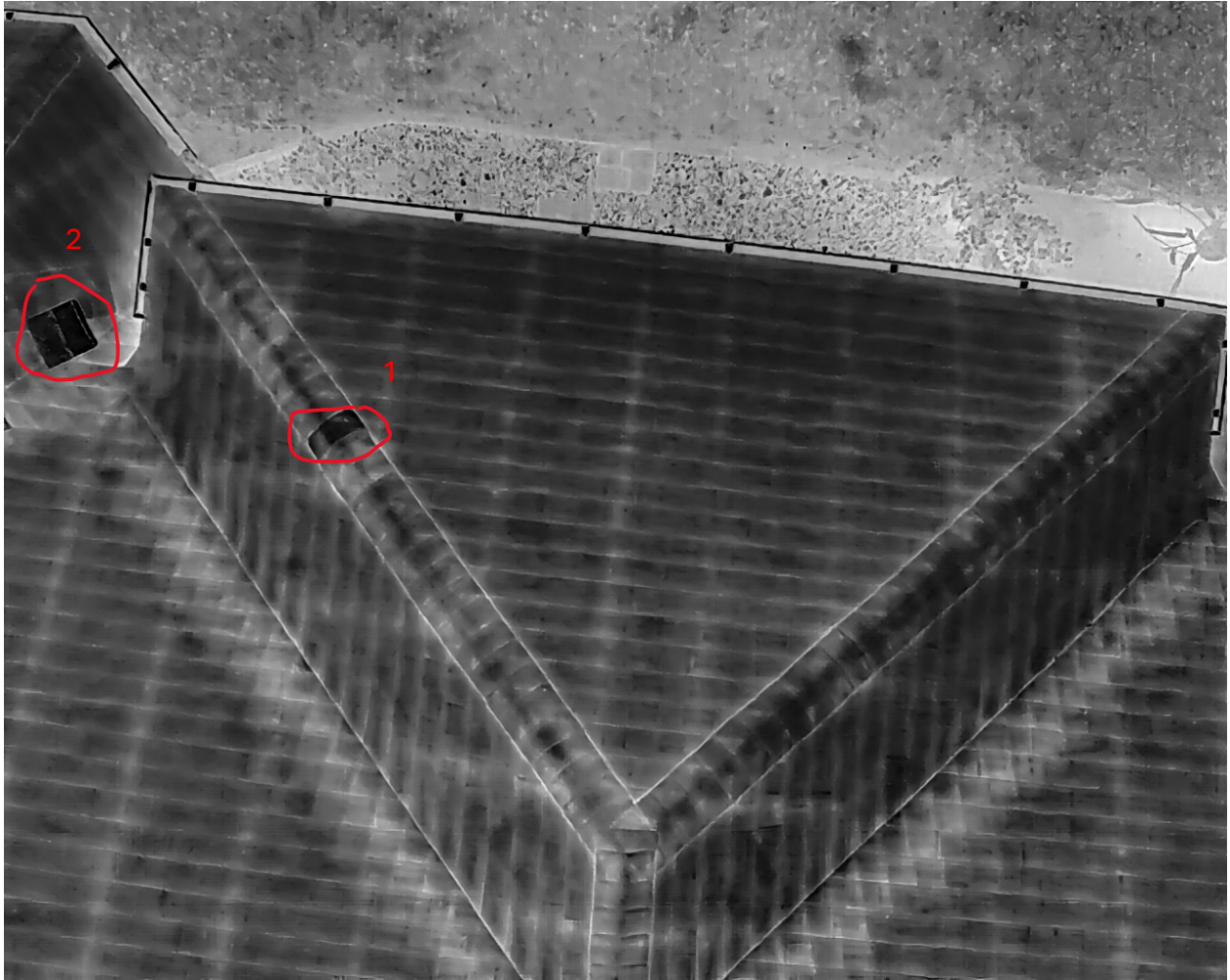
Image 2: Southwest Corner



Six thermal anomalies on the Southwest corner of the house. Thermal anomalies 1-4 are amorphous anomalies that generally follow a rafter. Thermal anomaly 5 is an area of concern. It presents hot relative to similar parts of the roof.

1. Amorphous anomaly 1
2. Amorphous anomaly 2
3. Amorphous anomaly 3
4. Amorphous anomaly 4
5. Area of concern 1
6. Amorphous anomaly 5

Image 3: North Wall

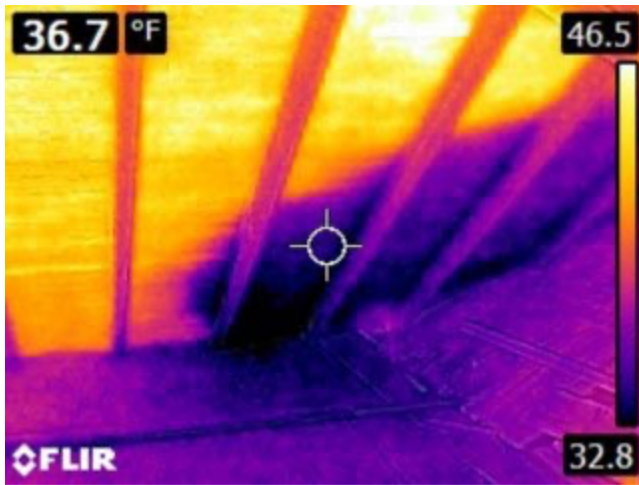


Two anomalies that present colder than the rest of the roof.

1. Loose shingle
2. Hip shingle

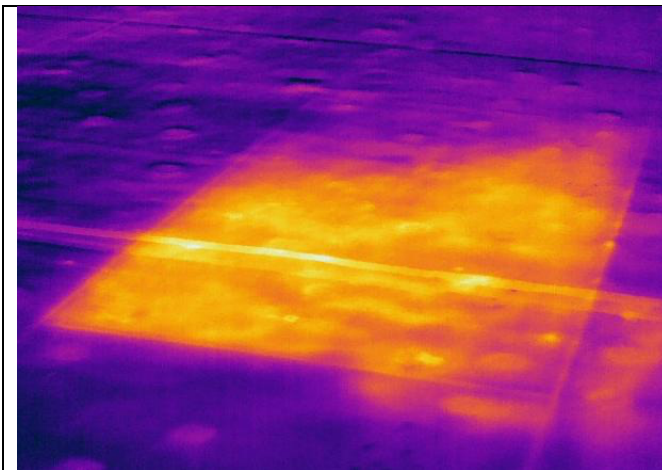
Terms

Amorphous Anomaly



A class of thermal anomaly which images as an irregular shape. Usually associated with water above or below insulation. The purple area in the image is an amorphous anomaly.

Board-Stock Anomaly



A class of thermal anomaly which images as a solid rectangular pattern usually associated with wet perlite, cork, wood fiber, glass fiber, or cellular plastic insulation.

Picture-Framed Anomaly

	A class of thermal anomaly which images as an outlined rectangular pattern. Associated with insulation over boards, but not adjacent to them.
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