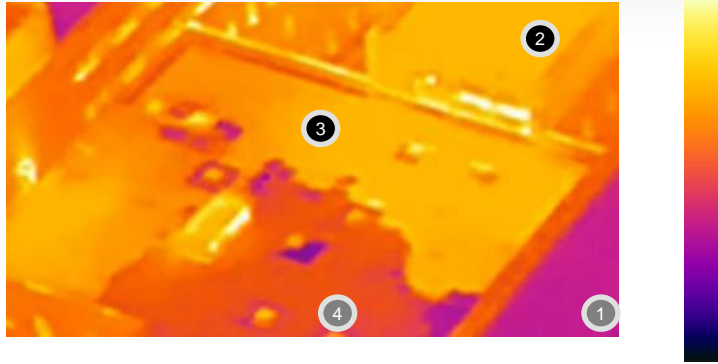


Thermal infrared analysis for buildings integrating with 5D BIM

End-to-end service to detect insulation leaks of roof

- ⊗ Element that needs attention
- ⊗ Element without issue
- ⊗ Other

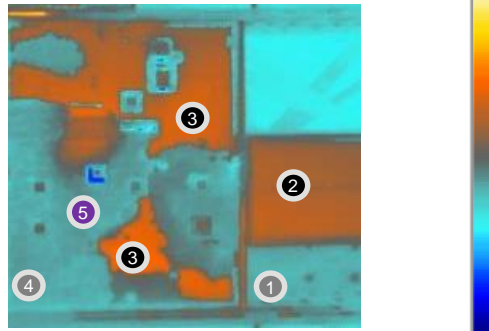
Qualitative thermal infrared image (overview with relative differences)



Visual mapping for cross referencing



Quantitative thermal infrared analysis (analysis of absolute temp profile)



Analysis

Roof

- ① ④ Roof is well insulated because it is at a temperature close to the ambient temperature ✓
- ② Heat losses because roof is at higher temperature (delta = XX degrees) than other roofs. Melting pattern confirm the higher temperature. The loss might be due to the design rather than bad construction work. ⚠
- ③ Heat losses because part of roof is at higher temperature (delta xx degrees) than part 4 of the roof and other roofs. The melting pattern confirms the heat losses at part 3 because of very similar profiles. ⚠

Other

- ⑤ Metallic ventilation tubes appear to be at a very low temperature. However this is due to the reflection of the clouds at 0 C (altitude 2600 ft). ✓