

THERMAL IMAGING SURVEY – THERMAL IMAGING PHOTOGRAPHY OF BUILDINGS AND STRUCTURES

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ABSTRACT

Currently, along with an increase in construction volumes, the requirements for the quality and comfort of constructed facilities are increasing. New architectural solutions are increasingly being used using modern (innovative) building materials with completely different properties, in contrast to traditional materials. In this regard, quality control of completed installation work is a labor-intensive process and is often not carried out in full and with due attention.

Key words : Condensation, tightness, defective insulation.

INTRODUCTION

The most complete and reliable information about the quality of construction and installation work performed and about the current state of structures can be obtained by performing thermal imaging.

We are pleased to offer you a wide range of services of various types of thermal imaging surveys, such as thermal imaging surveys of cottages, thermal imaging surveys of buildings, thermal imaging surveys of electrical equipment and other types of thermal imaging surveys. We guarantee high quality work, efficiency and competitive prices for all our services. Recently, every family has been receiving large bills for heating services.[3] Want to know where the heat goes and why you have to pay so much for something? Thermal imaging is currently the most advanced method for diagnosing heat loss. Thermal imaging is perhaps the best way to expose careless builders. Thermal imaging quality control of building structures, thanks to its efficiency, clarity and reliability of the results obtained, has managed to establish itself as one of the main methods for diagnosing enclosing structures.[4]

Thermal imaging examination allows us to identify violations of the thermal protection of enclosing structures that have arisen due to:

- design errors;
- violations of the manufacturing technology of building materials;

- violations committed during construction work;
- violations of operating conditions.

The listed factors lead to a premature decrease in the heat-protective properties of enclosing structures.[5]

Using thermal imaging control, the customer can always check the quality of work performed by the contractor, this can be:

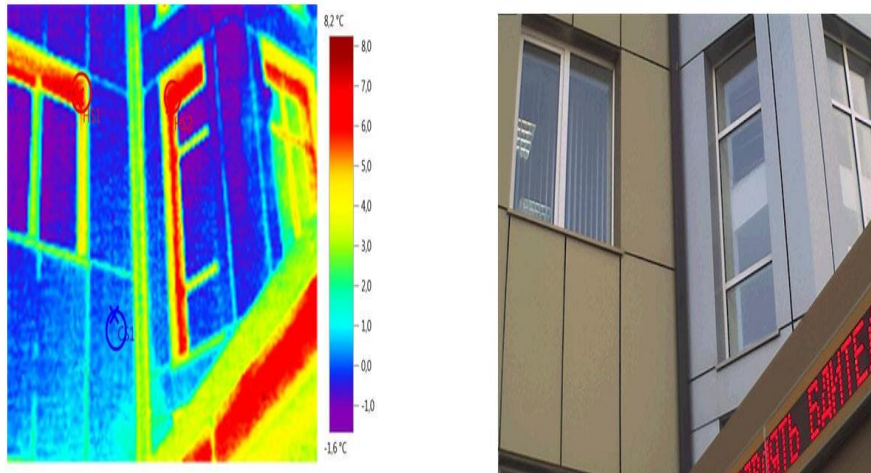


Figure 1. Heat loss through seams

METHODS

1. Operating organizations and homeowners' associations use thermal imaging to:

- detect roof leaks, ruptures in heating and water supply systems in floors;
- for current monitoring of the condition of enclosing structures, windows, doors, insulation of heating and hot water supply lines;
- for carrying out preventive work in ITP, central heating substations, transformer substations, ASU, etc.[2]

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