

Study of Social Housing Buildings for LIFE ENV/ES 439 project, using IR thermography

Maria C. Garcia de Viedma, Ricardo Tintero, Mar Barbero

Universidad Politécnica de Madrid (UPM)

Av. Juan de Herrera nº 6

Madrid, 28040 Spain

mariagviedma@hotmail.com +34 660007781

ricardo.tintero@upm.es +34 629214409

mar.barbero@upm.es +34 605381824

The NEWsolutions4OLDhousing LIFE10 ENV/ES/439 project, "Fight against Climate Change: Innovative technologies for an efficient use of resources and energy in the rehabilitation of housing" aimed to establish a standard methodology for the sustainable retrofitting of social housing.

During the LIFE10 ENV/ES/439 project (2011-2015), infrared thermography was used for the characterization, study, and detection of irregularities and later for the verification of the envelope performance of different buildings.

Within the phase "Analysis of the social housing stock in the regions covered by the project. Definition of rehabilitation needs ", a study of the social housing park at Zaragoza, owned by ZV SAU (also a partner of the project) is carried out, to detect the real needs of rehabilitation of the social housing buildings involved, as a starting point for the Possible actions to be taken and subsequently define the most suitable measures and strategies for their sustainable rehabilitation

The poster shows IR Images of defects and detected singularities, such as damp, thermal bridges, construction defects in different buildings.

Keywords

IR thermography, building pathology, thermal performance, thermal comfort, qualitative thermography, building envelope, UE LIFE project