



UNIVERSITÀ  
DEGLI STUDI  
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# Regulatory Framework and Building Energy Design

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# Italian interministerial Decree 26 June 2015 – Annex I

## **Common requirements for new buildings, major renovations and energy requalification**

Designers must include the calculations and checks required by this Decree in the technical project report certifying compliance with the requirements for the containment of energy consumption of buildings and related heating systems

In case of replacement of heat generators with a nominal power lower than 50 kW, the aforementioned obligations apply only in the case of a change of fuel or generator type

The conformity of the interventions with respect to the project as well as the Energy Qualification Certificate of the building as built, must be certified by the director of the works and presented to the competent Municipality at the same time as the declaration of completion of the works

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Buildings and plants must be designed to ensure the maximum containment of energy consumption *together with thermo-hygrometric well-being and indoor air quality*

In case of an intervention on opaque structures delimiting the air-conditioned volume towards the outside shall be verified the absence:

- of risk of mold formation, with particular attention to thermal bridges in new buildings
- of interstitial condensations

To limit the energy needs for summer air conditioning and to contain the internal temperature of the rooms for the roofing structures of buildings it is mandatory to verify the effectiveness, in terms of cost-benefit ratio, of the use of:

- high solar reflectance materials for roofs
- passive air conditioning technologies

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In existing buildings subjected to major renovation or energy requalification in the case of:

- installation of heating systems equipped with radiant floor or ceiling panels
- internal insulation intervention

the minimum heights of the living spaces envisaged in the first and second paragraphs of the Ministerial Decree of 5 July 1975 may be derogated, up to a maximum of 10 cm

In mountain municipalities above 1000 meters above sea level, taking into account local climatic conditions and the local building typology, a reduction in the minimum height of habitable rooms to 2.55 meters may be permitted

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## General requirements for new buildings and major first level renovations

*In the case of an intervention that regards the opaque parts of the building envelope, for the purposes of safety in case of fire the regulations regarding fire prevention must be applied*

Newly installed winter air conditioning systems, or those installed during the replacement of the heat generator, must be equipped with systems for automatic regulation of the ambient temperature in individual rooms or in individual thermal zones in order not to determine overheating due to solar gains and free internal gains. Such systems must be assisted by climatic compensation



The climate compensator receives the signal from an external temperature sensor, located in the shaded area of the building, that detects the actual temperature and, if necessary, the electronic controller regulates the heat supply and the heat delivery to the emission systems, ensuring that room temperatures are kept constant