



POLITECNICO
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Honors thesis

Master of Science in Sustainable Architecture

Abstract

**Thermal and acoustic insulation requirements for offices in
Argentina and Italy: design application and comparison.**

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Over recent years there has been more and more discussions about environmental sustainability and human well-being, both for housing and working environment. As we live in a globalized world, today these are issues of international debate, so we wonder whether this topic has been faced in the same way throughout the world. How much does the legislative and geo-political context affect environmental sustainability and human well-being? Are efficient materials available to everyone or are they goods that few people can access?

The following research work's aim is to answer to these questions, using two countries with different contexts, Italy and Argentina, as model to analyze how their legislation and practice deal with two fundamental requirements of sustainability in architecture: thermal and sound insulation.

These notions are applied in practice in thermal and acoustic performance indices, which objectively describe the efficiency of a building, taking into account the effects on the subjective sphere. These indices allow us to make a comparison between a coworking building projected in Italy and an Argentine one, both developed from the same design base.

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