Cairo University

REUSING CONSTRUCTION MATERIALS IN CONSTRUCTION PHASE WITH SPECIAL REFERENCE TO RESIDENTIAL BUILDINGS

By

Nevine Samy Ahmed Abdien

A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the
Requirements for the Degree of
MASTER OF SCIENCE
In Architecture Engineering
Environmental Design and Energy Efficiency in Buildings

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
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Under the Supervision of

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Title of Thesis:

Reusing Construction Materials in Post Building Phase with special reference to Residential Buildings.

Key Words:
Waste Materials, Building Waste, Recycling Potential, Recycling, LCA, Management, Reusing, LCC.

Summary:

There has been a trend to preserve the environment through the concept of sustainable development, which means no depletion of the natural resources base of the biosphere, Consequently, the construction industry has a special obligation to behave proactively and shift rapidly from wasteful, harmful practices to a paradigm under which construction and nature work synergistically, rather than antagonistically. Search displays the types of Construction waste. The research deals with the need to take into account the economic feasibility of recycling and controls waste disposal, and displays search for some ways to take advantage of construction waste.

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5. Chapter Five: New techniques of reusing and recycling matrials

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