

Design for sustainability: A methodological approach for the introduction of environmental requirements in the furniture sector

Liliane Iten Chaves

Abstract: This article presents a method entitled *Design for environmental sustainability: design strategies, methods and tools in the furniture sector*. This method was developed by the research unit DIS (Design and System Innovation for Sustainability) of the Politecnico di Milano, Italy, directed by Prof. Carlo Vezzoli. This study consists of a presentation of the method for the development of design and environmental sustainability tools focusing on a given sector of product type. It is particularly relevant since it may be applied in different production sectors. The study was divided into three steps: life cycle assessment (LCA), environmental design priorities indicators (EDPI), and the creation of guidelines through a participatory research. Among other results, it proved to be an original abridged LCA tool and furniture-specific LCD guidelines.

Keywords: design for sustainability, office furniture, life cycle assessment, design guidelines.

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