

1. Record Nr.	UNINA9910741140703321
Autore	Žegarac Leskovar Vesna
Titolo	Energy-efficient timber-glass houses // Vesna Zegarac Leskovar, Miroslav Premrov
Pubbl/distr/stampa	New York : , : Springer, , 2013
ISBN	1-4471-5511-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (vi, 178 pages) : illustrations (some color)
Collana	Green Energy and Technology, , 1865-3529
Disciplina	620.12
Soggetti	Architecture and energy conservation Wooden-frame houses - Energy conservation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 1865-3529."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Basic Principles of Energy-efficient Building Design -- Structural Systems of Timber-Frame Buildings -- Timber-glass Prefabricated Buildings.
Sommario/riassunto	The book discusses combining timber and glass, two eco materials, with a view to developing an optimal contemporary energy-efficient house with an attractive design. Furthermore, the book connects an architectural design approach with structural research to show the possibilities of stabilizing the building with an increased size of the glazing. Research results where the glazing is considered as a load-bearing structural element are therefore presented in a manner leading to the development of an optimal model of the timber-glass house, considering both the structural and energy related aspects. The presented research work can be useful to designers and future experts in their planning of optimal energy-efficient timber buildings. The study is based on using timber and glass, which were previously neglected as construction materials. With suitable technological development and appropriate use, they are nowadays becoming essential construction materials as far as energy efficiency is concerned. However, their combined use is extremely complicated, from both the constructional point of view as well as from that of energy efficiency and sets multiple traps for designers. A good knowledge of their advantages and drawbacks is thus vitally important, which is shown in the present monograph.

