1. Record Nr. UNINA9910877142203321

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Titolo	Design and Construction of Bioclimatic Wooden Greenhouses, Volume 3 : Design of Construction: Envelopes
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2023 ©2023
ISBN	1-394-19216-9 1-394-19214-2
Descrizione fisica	1 online resource (289 pages)
Disciplina	635.9823
Soggetti	Greenhouses - Design and construction Greenhouses - Heating and ventilation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Introduction -- Chapter 1. Prolog - Overview of Types of Transparent Enclosures -- 1.1. Risks of condensation on transparent enclosures -- 1.2. Essentials on glass panel enclosures -- 1.2.1. Installation of glass panels -- 1.3. Essentials on synthetic panel enclosures -- 1.3.1. Ribbed panels -- 1.3.2. Drained flat double panels -- 1.3.3. Corrugated panels -- 1.3.4. Synthetic films -- 1.4. Curtain walls -- 1.4.1. Detailing at vertical corners -- 1.4.2. Detailing the connection between the front wall and the roof -- 1.4.3. Detailing the connection between the side walls and the roof -- 1.4.4. Detailing the connection between the roof and the building front façade in attached greenhouses -- 1.4.5. Detailing the connection between the roof and the back wall (for stand-alone greenhouses) -- 1.4.6. Detailing the transition between an opaque part of the roof and a transparent one -- 1.4.7. Detailing the vertical joints between greenhouse and building -- 1.4.8. Connecting external systems to the mullion-and-transom system -- 1.4.9. Pressure caps on roofs -- 1.4.10. Bent plates as anchoring devices -- 1.4.11. The façade of windows as an alternative to the curtain wall -- 1.4.12. The façade of windows at the lintels and at the transoms -- 1.4.13. Connection between mullion or transoms and windows by means of setbacks in the profiles -- 1.4.14. Windows and doors -- 1.5. Glazing with glass

Sommario/riassunto

This book is the third of four dealing with bioclimatic design and construction by focusing on the most basic and polyvalent of modern environmental systems: the bioclimatic greenhouse, the "Swiss-army chainsaw" of architecture. More specifically, this third volume focuses on how the envelope of bioclimatic wooden greenhouses may be designed and built. In more general terms, it helps us to consider how to design and build the transparent and opaque enclosures of

bioclimatic, low-energy architecture, with low environmental impact. This multi-volume book covers both free-standing greenhouses that can naturally heat and cool themselves, and lean-to greenhouses that support the natural heating and cooling of buildings; this includes both agricultural greenhouses and greenhouses suited to host people. As a result, it is a trans-disciplinary work deriving its areas of concern from a broad range of study areas, spanning from environmental, to constructional, to structural, drawing the clarity of the approach from the fact that the topics are presented by a single author with a single voice and a designer's mindset. To achieve this, the book adopts a composite set of explanatory strategies and communication registers - including extensive support by 3D construction drawings and examples - and presents not only stateof-the-art solutions, but also experimental ones.