The main objective of the COST Action C13 was to increase the knowledge of properties and possibilities of glazing in order to increase the performance of building envelopes, to reduce the energy consumption and to improve the quality of life with respect to interior space, impact on the environment and human welfare.

This collection of papers presented at meetings and workshops of the COST C13 working groups 1 (Architectural Aspects and Design Integration), 2 (Quality of Interior Space) and 3 (Structural Aspects of Glass) are the result of 5 years of exchange of ideas, experiences and know-how between members, delegates and experts. It represents the body of knowledge from a restricted but representative group of professionals in Europe on the subject of glass building envelopes.

The Steel Structures Laboratory at Ecole Polytechnique Fédérale de Lausanne (CH) and the research group ‘Façades & Systems’ of the Faculty of Architecture at Delft University of Technology (NL) have taken the initiative to publish these COST C13 papers in order to disseminate the knowledge to the world of glass façade professionals and to contribute to the development of a new generation of high-performance glass building envelopes.
Contents:

Working Group 1 – Architecture and Design Integration
- ‘Zappi’ Structures And Constructions In ‘Blob’ Architecture / M. Eekhout
- Glass Architecture and the Interactive Building Envelope: Principles and Precedent / M. Wigginton

Working Group 2 – Quality of Interior Space
- Acoustical Performances of Ventilated Double Glass Façades / M. Blasco
- From Energy Rating towards a more Holistic Approach for the Selection of the Most Suitable Advanced Façade System / H. De Bleecker, M. Zobec and A. Franceschet
- Modeling and Simulation of a Double-Skin Façade System / J. Hensen, M. Bartak and F. Drkal
- Harmonization of Optical and Thermal Behaviour of Buildings / A. Krainer and Ž. Kristl
- Luminous Efficacy Based on Fuzzy Controlled Roller Blind Positioning / A. Krainer, J. Peternelj, Ž. Kristl and V. Lampret
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Working Group 3 – Structural Aspects of Glass
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- Design of Glass Members – A Critical Review of the Present Knowledge / M. Haldimann
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- Buckling-related problems of glass beams / J. Belis and R. Van Impe
- Stability of Laminated Glass Beams / R. Kasper and G. Sedlacek
- Contribution to the Use of Reinforced Glass Loaded on its Strong Axis / K. Kreher
- Stability of Load Carrying Elements of Glass / A. Luible and M. Crisinel
- Fastening of Glass Panes with Undercut Anchors – FEA and Experimental Investigations / P. Hof and J. Schneider
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- Glass Canopy for the Office Center of the DZ Bank in Berlin / R. Hess
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- Construction Practice in Glass Structures / P. Wilson

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