

SwissTech Convention Center

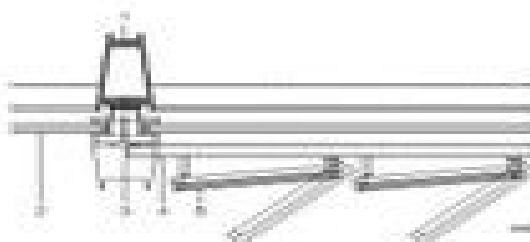
Lausanne, CH 2012

Architect:
Pecher Durr Pecher & Associates, Lausanne

CD 06/04/2015
Facade 03/02/16
Hautech 06/2014
Tec 21 40-50, 2013

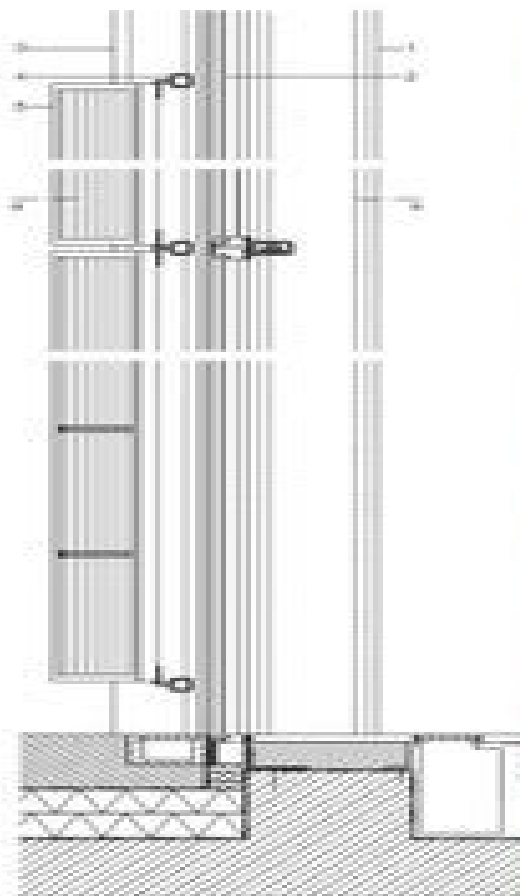


- Main building for an extension to the École polytechnique fédérale de Lausanne (EPFL) campus
- A convention centre designed to accommodate 3,000 people, central foyer with a glass facade covers the full height of the building
- Angled, full-storey, dual-glass modules in narrow strips, cover 300 m² of the west facade; angles range from 7.5° to 45° in increments of 7.5°
- Dye-sensitised solar cell modules in various shades of yellow, green and red
- First use of Grätzel cells on this scale



Cross section - Scale: 1:1,000
Vertical cross section, west facade - Scale: 1:20
Horizontal cross section through a facade strip - Scale: 1:25

- 1 Steel facade support
- 2 Double glazing 14 mm + space between the panes 17 mm + 6 mm, fixed along edges on glazing bars
- 3 Anodised aluminium cover module requires steel section 30x50x5 mm
- 4 Dual glass solar panels in anodised aluminium frames
- 5 Solar modules 22,700 in 4x10 mm in each panel in 3500 x 3000 mm, each with a 1/2 in 2° adjustable strip of Grätzel cells



Glass Facade Construction Manual

SA Adler



Glass Facade Construction Manual:

Facade Construction Manual Thomas Herzog, Roland Krippner, Werner Lang, 2012-12-10 Facades they are the first feature of a building to be noticed they determine its distinctive appearance and are often the subject of controversial debate This new first edition of the Facade Construction Manual provides a systematic survey of contemporary expertise in the application of new materials and energy efficient technologies in facade design and represents an invaluable addition to our series of Construction Manuals It surveys the facade design requirements made by various types of buildings as well as the most important materials from natural stone through to synthetics and documents a diversity of construction forms for a wide range of building types Over 100 international case studies in large scale detailed drawings are presented in the comprehensive project section

Glass Construction Manual Christian Schittich, Gerald Staib, Dieter Balkow, Matthias Schuler, Werner Sobek, 2012-12-10 Glass offers a wide variety of possible applications for the realization of even the most ambitious designs in architecture and in the past two decades it has experienced an unparalleled burst of innovation For planners this means working constantly with this high performance material In compact and appealing form the completely revised Glass Construction Manual presents the current state of the art on planning and building with glass from the history through the technical foundations all the way to the most innovative applications Astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work

Glass Construction Manual, 1999 Construction Manual for Polymers + Membranes Jan Knippers, Jan Cremers, Markus Gabler, Julian Lienhard, 2012-12-17 Whether it be as translucent sheets broadly stretched membranes and inflated foil cushions or in graceful organic curves architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes Innovative technical developments are constantly improving its material properties at the same time there is a growing new awareness of its potential as a construction material While plastics used to be employed primarily as an inexpensive variant on traditional building materials they are increasingly regarded in the construction world today as a serious and viable alternative be it as supporting structures roofs facades or elements of interior design and decoration Thanks in large part to this inherent self sufficiency plastics are currently enjoying an unprecedented surge in popularity even among the international architectural avant garde as multiwall sheets or corrugated fiber reinforced panels or as filling between glass panes And the new generation of ecological bioplastics also pays tribute to the debate on sustainability ridding plastics of their lingering reputation as environmental offenders From the history of plastics and membranes in architecture to their material properties and requirements in construction and design the *Plastics and Membranes Construction Manual* cuts to the chase providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the Im DETAIL series Selected project examples round off the reference work and make it indispensable for the day to day life of the professional planner and for every architecture library

Glass

Construction Manual Dieter Balkow, 1999 This is a reference work on working with glass This volume aims to show the wide range of possibilities for using glass in construction beginning with a historical overview of glass in architecture and explores the principles of construction with such practical aspects as fixing systems

Façades Ulrich Knaack, Tillmann Klein, Marcel Bilow, Thomas Auer, 2014-09-05 Introduction to building façades as revised edition Façades determine the appearance of a building Hence they constitute a major element in architecture At the same time the building's envelope has important functions to fulfil such as lighting weatherproofing thermal insulation load transfer and sound insulation Over the past 15 years façades have become increasingly complex intelligent façades for instance adapt to changing climate and lighting conditions Newly developed materials and technologies have broadened the scope of façade functions This book demonstrates the principles of façade construction It systematically describes the most common types such as post and beam façade curtain wall corridor façade or double façade and provides guidelines for appropriate detailing Numerous drawings made especially for the book explain the principles of different types of façades which are then illustrated with built examples For this second edition all chapters were revised and all four examples in the case studies chapter were replaced by new material The new chapter Future Façades offers insights into what's next

Modern Construction Handbook Andrew Watts, 2022-11-21 New edition of the popular handbook The Modern Construction Handbook has become a classic of advanced construction literature not least due to its regular revisions and clear structure with chapters titled Material Wall Roof Structure Environment and Applications Tried and tested component details examples focusing on sustainability and energy consumption and an update on finite element analysis FEA and computational fluid dynamics CFD introduced in the last edition set new standards for this handbook which serves as a foundational textbook in many architecture courses As a primer Handbook to building design it is a starting point for the more advanced books Modern Construction Envelopes Modern Construction Case Studies Modern Environmental Design and Modern Structural Design by Andrew Watts Relevant details and examples for studies The most important aspects of building design covered in six chapters Project neutral drawings

Architectural Details 2003 Detail Magazine, 2016-01-08 This is a compilation of the full year's information including the Discussion section where well known architects and critics as well as specialist authors and architectural historians articulate their views the Documentation section containing an analysis of selected projects in which buildings from around the world are covered in depth and the Technology section where the specific theme of each issue of the magazine is treated in greater depth Along with these are illustrations of the high standards that Detail is known for where all plan drawings are true to scale and have been approved by the architects planners and engineers responsible for the original design This annual sourcebook is a beautiful record not only of the year's Detail publication but of some of the best and most innovative contemporary architecture

Basics Glass Construction Andreas Achilles, Diane Navratil, 2017-05-22 Glass construction is one of the most varied and innovative areas of structural design Glass connects exterior and interior

spaces at the same time it protects the interior space from the outside world Its constructional possibilities go far beyond classical window constructions Special glasses possess astonishing physical characteristics and can thus be used in varied and creative ways Topics Glass as building material Processing and finishing Applications Construction types Connections Mountings Performance of Combustible Façade Systems Used in Green Building Technologies Under Fire Gaurav Srivastava,Pravinray D. Gandhi,2021-08-31 This book addresses fire safety of combustible fa ade systems which has gained much attention in recent times due to several major fire accidents across the world where combustible fa ade systems had a significant role in enhancing the growth of fire The Grenfell tower London fire is one of the most severe accident in this category The book covers basic design and functional aspects of commonly used fa ade systems along with the materials typically used in such systems Subsequently it discusses the currently available testing methods at component level intermediate level and system level It also provides detailed case studies of six full scale real fire fa ade fire experiments that have been jointly carried out by IIT Gandhinagar and Underwriters Laboratories at the full scale fa ade testing facility established at IIT Gandhinagar The book will enable designers and decision makers to make better assessments regarding fire safety of existing and upcoming fa ade systems It also serves as a guide to deciding which testing methods are more appropriate under certain conditions

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Convince Them in 90 Seconds or Less: Make Instant ... May 26, 2010 — Whether you're selling, negotiating, interviewing, networking, or leading a team, success depends on convincing other people - and ... THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: ' THE GLASS MENAGERIE". He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES."] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... An Introduction to Medical Malpractice in the United States An Introduction to Medical Malpractice in the United States Summary Medical Liability/Medical Malpractice Laws Jul 13, 2021 — A health care provider's personal liability is limited to \$200,000 for monetary damages and medical care and related benefits as provided in §41 ... Medical Malpractice Law Oct 14, 2023 — Medical malpractice happens when a doctor or another medical professional whose actions fall below the appropriate standard of care hurts a ... What is Medical Malpractice Law? Aug 3, 2023 — Medical malpractice involves injury or harm caused by a doctor's negligence. Learn about time limits, forms of negligence, and much more at ... Medical malpractice: What does it involve? Medical malpractice refers to professional negligence by a health care provider that leads to substandard treatment, resulting in injury to a patient. malpractice | Wex | US Law | LII / Legal Information Institute Malpractice, or professional negligence, is a tort committed when a professional breaches their duty to a client. The duty of a professional to a client is ... Medical malpractice Medical malpractice is a legal cause of action

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