

Creative Solutions for Challenging Curtain Wall Conditions

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Introduction

Aluminum-framed curtain walls are highly engineered systems consisting of various materials that are often used for longer spans of buildings as well as for some building features. While the manufacturer's standard loads and performance may address typical field wall conditions and performance factors, the design engineer's performance of special details often requires knowledge and creativity.

The authors have experience designing various high-rise curtain wall systems, with ongoing problems with existing systems and upcoming curtain wall construction. Due to the history used in the field, the code and practice were solutions developed to solve design and installation issues to overcome project challenges and meet specific design objectives for structural and vertical load conditions associated with some architectural curtain wall projects.

Background

Existing Curtain Wall System

Before plans for installing a curtain system with an offset mullion over the top surface of existing floor slabs (Figure 1), providing increased section conditions for a window of height, with the primary use being floor-to-ceiling, bearing in mind the impact of wind suction and uplift, the structural team was typically provided with other information and final adjustment of the proposed curtain wall section conditions.

These wall conditions should be considered during the original design of the building structure, especially for those wall conditions to extend to the edge and free edge or other edge areas of primary need to be considered. If the system can not interact with the curtain wall construction because of the nature and the structural design load (perhaps more structural walls) to directly consider the wall edge conditions may not be adequate to design the curtain. The most critical items on the design listed by the structural team and wall system may be repair conditions of steel connections and verify slab edge section conditions.

It may be tempting to structure these details at the level of floor slabs bearing in mind generally in order to save cost, though doing so may have unfortunate consequences. Most contractors may be located around building where the curtain wall system, through wall repair systems are typically located from the top surface of the structural slab. However, their poor practice has shown



Figure 1. Existing curtain wall system

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IBEA Conference 2011 Proceedings: Innovation and Integration - Science, Technology and Policy in the Built Environment Mahtab Akhavan Farshchi,2012 **Environmental Challenges in Civil Engineering** Zbigniew Zembaty,Damian Beben,Zbigniew Perkowski,Adam Rak,Giovanni Bosco,Pranshoo Solanki,2021-03-14 This book gathers a selection of papers presented at the 4th International Scientific Conference Environmental Challenges in Civil Engineering ECCE 2020 Opole Poland held on April 20 22 2020 in Opole Poland The chapters written by an international group of experts report on advanced finding in structural material behaviour and novel construction technologies and procedures with a focus on strategies to foster sustainable civil engineering Offering a good balance of theory and practice and covering both technical as well as legal and organization aspects in civil engineering and architectural projects this book offers extensive information on the state of the art and a timely snapshot of current challenges in planning construction projects and structural interventions in accordance with the principles of environmental protection **Architectural Graphic Standards** American Institute of Architects,Keith E. Hedges,2017-03-29 ARCHITECTURAL GRAPHIC STANDARDS THE LANDMARK UPDATE OF THE MOST RECOGNIZED STUDENT RESOURCE IN ARCHITECTURE The Student Edition of the iconic Architectural Graphic Standards has been a rite of passage for architecture building and engineering students for more than eighty years Thoughtfully distilled from the Twelfth Edition of Architectural Graphic Standards and reorganized to meet the specific needs of today s students this fully updated Student Edition shows you how to take a design idea through the entire planning and documentation process This potent resource stays with you through your academic experience and into your first years as a professional with thousands of useful illustrations and hundreds of architectural elements conveniently placed at your fingertips Presented in a format closely resembling an architect s actual workflow this Twelfth Edition student handbook features Completely new material on resiliency in buildings A versatile treatment written for the design studio setting and aligned with the most current curricular trends including new and updated coverage on topics related to sustainability digital fabrication and building information modeling BIM A proven pedagogy that saves students time and ensures young professionals avoid the most common pitfalls Develop a state of the art mastery of design best practices with Architectural Graphic Standards Twelfth Edition Student Edition **Architectural Graphic Standards** Charles George Ramsey,Harold Reeve Sleeper,2011-01-13 The new student edition of the definitive architectural reference For seventy five years Architectural Graphic Standards has been the go to reference for architects builders and engineers Revised for the first time since 2000 Architectural Graphic Standards Student Edition gives students their own handy resource Carefully abridged from the Eleventh Edition of Architectural Graphic Standards this Student Edition features the same richly detailed graphics and text that have made Architectural Graphic Standards a classic but updated and reorganized in a way that is relevant to today s student Thousands of illustrations and a rich index offer immediate access to

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sustainability Topics include a discussion of transparent envelope components including intelligent kinetic skins such as low e coatings high vs low silver content in glass solar control coatings such as silver vs niobium vs tin and more In addition opaque envelope components are also presented including opaque dynamic facades clay lining vs plasterboard and nano clayed foams Includes real case studies that explore in detail the behavior of different envelopes Presents laboratory tests on existing insulation if any through samples extracted on site to quantify actual performances Provides the tools and methods for comparing selecting and testing materials and components for designing effective building envelopes Covers both transparent and opaque envelope components as well as opaque dynamic facades *Photovoltaics in Buildings* Friedrich Sick,2014-01-14 The integration of photovoltaics PV into buildings goes beyond energy saving by providing a clean and elegant way of actually generating electricity There are already numerous successful examples and rapid technological improvements promise expansion of PV s present niche market to that of a major energy provider of the 21st century This handbook is the outcome of a five year programme which took place under the auspices of the International Energy Agency Architects and solar experts from 13 countries addressed the wide range of engineering and architectural issues involved in the successful integration of PV into buildings It demonstrates how to maximise the overall solar contribution to the building integrate PV effectively with the building structure clarify the relationship of PV with other elements of the building s energy system optimise the system economics It forms a thorough design guide that covers all aspects of the subject and will enable all building designers engineers and property owners to make the integration of PV into buildings an architecturally appealing and energetically effective option **Healthcare Spaces** ,2004 **Photovoltaics in the Built Environment** ,1997 *Manufacturing Integrated Design* Peter Groche,Enrico Bruder,Sebastian Gramlich,2017-03-29 The book gives a systematic and detailed description of a new integrated product and process development approach for sheet metal manufacturing Special attention is given to manufacturing that unites multidisciplinary competences of product design material science and production engineering as well as mathematical optimization and computer based information technology The case study of integral sheet metal structures is used by the authors to introduce the results related to the recent manufacturing technologies of linear flow splitting bend splitting and corresponding integrated process chains for sheet metal structures **Princess Or Prisoner?** Margalit Shilo,2005 An in depth look at the lives of religious Jewish women in Jerusalem at a transitional moment in its history **Architectural Technology** ,1999 *High Performance Building Façade Solutions* Eleanor Lee,S. Selkowitz,Lawrence Berkeley National Laboratory,2009 **Plants and Architecture** Lloyd Godman,2023-06-26 Please note This ebook has been specifically designed as an epublication and is optimized for viewing on Thorium Reader Thorium Reader is the free EPUB reader of choice for Windows 10 and 11 MacOS and Linux <https://www.edrlab.org/software/thorium-reader> Greening the built environment by integrating plants into architecture has seen vertical and roof gardens flourish in recent decades and they continue to capture the attention of

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Southeast Asia Building , **ENR Square Foot Costbook** ,2009 **Architecture, from Prehistory to Post-modernism** Marvin Trachtenberg,Isabelle Hyman,1986 History of buildings groups of buildings the styles in which they were built and the architects responsible for them from Stonehenge to the present **Architecture** Forrest Wilson,Ron Keenberg,William C. Loerke,1990 In this one of a kind volume an architectural journalist an architect and an architectural historian collaborate to show that architecture is not an ism style or vogue but simply the solution to basic design and building problems Illustrated Concrete Abstracts ,1987 **Bulletin - Association for Preservation Technology** Association for Preservation Technology,1997

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