

Project :- **Project**
 Building :- **Building**
 Element :- **Element**
 Location :- **Location**

Designed by: **M. Abu Shady**
 Checked by: **M. Abu Shady**
 Date:- **8-Nov-14**

General Input :-

Flat Slab Input

Slab thk t	260	mm	f_y	420	N/mm ²
cover	25	mm	f_c'	30	N/mm ²
d	225	mm	f_{yc}	420	N/mm ²

Normal weight concrete $\lambda = 1$

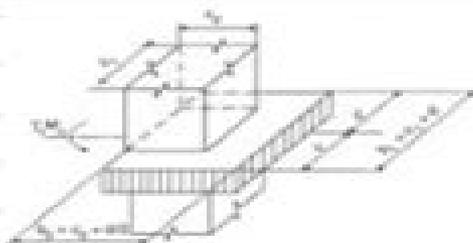
Column Dimensions

c_1 Depth	600	mm	
c_2 Vidth	400	mm	
Position	Edge Column-width	Case C	
β	1.50	ACI 11.11.2.1.a	
as	30	ACI 11.11.2.1.b	

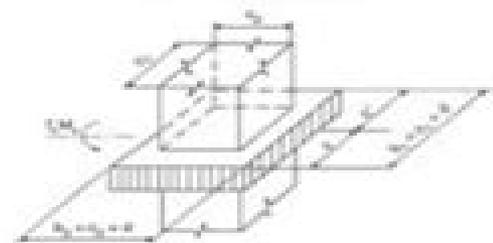
Punching Shear Input

V_u	900	KN
M_{u1}	75	KN.m
M_{u2}	50	KN.m

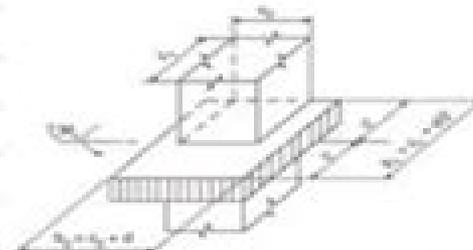
Case A: Edge Column (Bending parallel to edge)



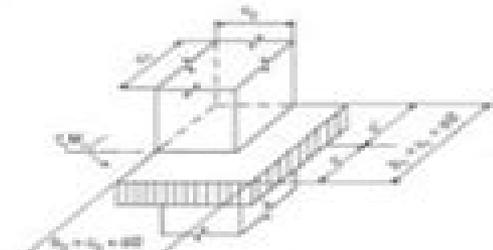
Case B: Interior Column



Case C: Edge Column (Bending perpendicular to edge)



Case D: Corner Column



a-Calculation of RC punching shear resistance without shear reinforcement ($\phi V_n = \phi V_c$)

b_1	712.5	mm	b_2	625	mm	b_o substructure	0	mm
b_o	2050	mm			ACI 11.11.1.2			
ϕ_{shear}	0.75				ACI 9.3.2.3 & ACI 9.3.4.a			
$V_c = \min. of$	$0.17 \left(1 + \frac{2}{\beta} \right) \lambda \sqrt{f_c'} = 2.173$		N/mm²		ACI 11.11.2.1.a			
	$0.083 \left(\frac{a+d}{b_c} + 2 \right) \lambda \sqrt{f_c'} = 2.406$		N/mm²		ACI 11.11.2.1.b			

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R Pring



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Onshore Structural Design Calculations Mohamed A. El-Reedy, 2016-10-14 Onshore Structural Design Calculations Energy Processing Facilities provides structural engineers and designers with the necessary calculations and advanced computer software program instruction for creating effective design solutions using structural steel and concrete also helping users comply with the myriad of international codes and standards for designing structures that is required to house or transport the material being processed In addition the book includes the design construction and installation of structural systems such as distillation towers heaters compressors pumps fans and building structures as well as pipe racks and mechanical and electrical equipment platform structures Each calculation is discussed in a concise easy to understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation Provides information on the analysis and design of steel concrete wood and masonry building structures and components Presents the necessary international codes and calculations for the construction and the installation of systems Covers steel and concrete structures design in industrial projects such as oil and gas plants refinery petrochemical and power generation projects in addition to general industrial projects Post-Tensioning in Building Construction Bijan O. Aalami, 2023-05-09 Worldwide growth and application of post tensioning in recent years is one of the major developments in building construction The growth is propelled by a burgeoning demand for construction of serviceable and safe buildings Unlike traditional construction post tensioning is based on new design methodology often not covered in traditional engineering courses With more than 40 years of experience of study teaching and work on post tensioning applications around the world the author has written this book for students as well as practicing engineers contractors and academics While the book covers the basics and concepts of post tensioning in simple and clear language it also focuses on the application and detailed design through real world examples Topics of the book include the European and the American building Codes for post tensioning design The codes are detailed in the book s examples such as column supported floors and beam frames The book explains and highlights the importance of shortening specific to post tensioned members and construction detailing for serviceable and safe performance **Deformation and Progressive Failure in Geomechanics** A. Asaoka, Toshihisa Adachi, F. Oka, 1997-10-23 Progressive failure has been a classical problem in the field of geotechnical engineering and has attracted considerable attention in connection with slope stability and foundation problems It is associated with strain localization or shear banding and is also related to damage in material structures As knowledge of the progressive failure mechanism increases it is now necessary to establish effective communications between researchers and engineers The International Symposium on Deformation and Progressive Failure in Geomechanics provided an opportunity for discussing recent advances in this area A total of 136 papers were contributed from 22 countries As well as these the symposium proceedings also contain 8 interim technical reports on the subject by the members of the Asian Technical

Committee of the International Society for Soil Mechanics and Foundation Engineering and the Japanese Geotechnical Society National Committee on Progressive Failure in Geo structures Construction Management and Design of Industrial Concrete and Steel Structures Mohamed A. El-Reedy,2010-09-29 The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial oil gas and petrochemical and power generation project has created fierce competition for these projects Strong management and technical competence will bring your projects in on time and on budget An in depth exploration of both these aspects and the resulting challenges Construction Management and Design of Industrial Concrete and Steel Structures provides a practical guide to the design of reinforced concrete and steel structures and foundations in industrial projects Renowned expert Mohamed A El Reedy covers the entire industrial construction process from project management to design and construction to sign off and providing a maintenance plan Highlighting the differences between industrial construction and real estate or residential construction he examines every phase and every role from managerial to technical He includes cases from industrial projects and covers the international technical practices codes and standards used in steel or concrete onshore or offshore projects The book provides up to date methodologies in structure analysis geotechnical studies and international special codes and standards for industrial structures such as tanks foundation under towers machines and special structures in industrial projects It also examines the safety and economic benefits of developing a structure integrity management system When a project has a budget that seems as huge at the structure itself the client engineering firm and contractor must work together to achieve success Discussing the interface between these three main partners this book outlines strategies for checking the design and controlling a project in all its phases Notes on ACI 318-08, Building Code Requirements for Structural Concrete Portland Cement Association,2008 **ACI Structural Journal** ,2009 **Notes on ACI 318-89, Building Code Requirements for Reinforced Concrete** Satyendra Kumar Ghosh,Basile G. Rabbat,1990 **Notes on ACI 318-77** Portland Cement Association,1978 *NBS Building Science Series* ,1974 **Risk-Based Strategies for Bridge Maintenance** Khaled M Mahmoud,2023-08-16 Effective maintenance of bridge structures comprises a broad spectrum of plans for repairs and services implemented to enable bridges to perform their intended function These include in depth inspection fatigue analysis design of mitigation measures and construction to avert component deterioration Several incidents of in service and under construction bridge failures have recently taken place These dramatic failures emphasize the importance of risk based inspections and analysis of real life data to evaluate reliability of bridges To effectuate benefits of reliability analysis in bridge maintenance work on theoretical reliability must be equipped with practical analytical tools Such an approach must underscore risk elements and identify processes to manage risk and avoid unexpected outcomes of failures and service disruption of bridges The devastating earthquakes of February 6 2023 in the southern region of Turkey near the northern border of Syria which claimed tens of thousands of lives caused enormous structural damage and staggering economic losses

These seismic events brought to focus on the vitality of instilling infrastructure routes that must accommodate emergency management plans to integrate the influx of medical and rescue response teams The safe operation of bridges along these routes is indispensable for mobilization and deployment of rescue teams medical personnel humanitarian assistance and the supply of food and water The reliability of access routes and bridges is defined by their ability to adequately function as planned to effectuate emergency management plans in the event of a similar seismic event anywhere in the world Risk Based Strategies for Bridge Maintenance contains selected papers presented at the 11th New York City Bridge Conference New York City USA 21 22 August 2023 and discusses issues of reliability risk assessment management maintenance inspection monitoring design preservation and rehabilitation of bridges The book is aimed at bridge engineers [246 Solved Structural Engineering Problems](#) C. Dale Buckner,2003 Nothing builds your confidence for an exam like solving problems 246 Solved Structural Engineering Problems will help you prepare for the NCEES Structural I and II exams the California state structural exam and the structural module of the civil PE exam In each chapter problems are arranged in order of increasing complexity offering practice levels appropriate for each of these tests Exam topics covered are Structural Analysis Structural Concrete Structural Steel Timber Seismic Analysis Foundation Design Masonry In the structural steel chapter problems may be solved with either the AISC ASD or LRFD method whichever you re comfortable with The NCEES exams permit either method the California exam requires use of both methods Solutions show all essential steps

Characterization of the Punching Shear Capacity of Thin Ultra-high Performance Concrete Slabs Devin K. Harris,2005 Ultra high performance concrete UHPC is a relatively new type of concrete that exhibits mechanical properties that are far superior to those of conventional concrete and in some cases rival those of steel The main characteristics that distinguish UHPC from conventional reinforced concrete are its very high compressive strength 20 to 33 ksi the addition of steel fibers which enables tension to be carried across open cracks without conventional reinforcing steel and a very high resistance to corrosion and degradation The mechanical properties of UHPC allow for smaller thinner sections as compared to conventional reinforced concrete sections However as it is a new material the use of UHPC has been limited to a few structural applications due primarily to the high cost of the material and the lack of established design guidelines In previous research a material model based on physical tests was used in conjunction with finite element models to develop an optimized cross section for a prestressed UHPC girder for bridge applications The cross section is a double tee with bulbs at the bottoms of the webs to accommodate the prestressing strands As it is envisioned in bridge applications the double tees will be placed directly adjacent to one another and the top flange will act as the riding surface after a thin asphalt overlay is placed Based on the longitudinal compressive stresses the top flange of the girder can be quite thin However there exists the possibility that a punching shear failure could occur from the application of a point load such as a wheel patch load if the flange is made too thin The research reported herein was initiated to characterize the punching shear capacity of thin UHPC

plates and to develop recommendations on the minimum top flange thickness for the optimized double tee Twelve small slabs 45 in x 45 in were tested to failure to characterize the punching shear strength of UHPC The variables considered were the slab thickness 2 2 5 and 3 in and loading plate dimensions from 1 in x 1 in to 3 in x 3 in The results of the testing were compared to several existing models for punching shear The two equations that predicted strengths most reliably were the current ACI punching shear equation and a modified bolt pull out equation After evaluation of the test results the minimum slab thickness required to prevent a punching shear failure in the top flange due to an 8 in x 20 in wheel patch was determined to be 1 in Three larger slabs were also tested These slabs had the same clear span length as the top flange of the optimized double tee and were loaded with a wheel patch load The slabs were all approximately 3 in thick and all failed in flexure rather than punching shear It was concluded that the casting method has a strong influence on the orientation of the steel fibers which in turn influences the flexural strength in orthogonal directions in the slab The top flange thickness will be governed by transverse bending rather than punching shear and the 3 in slabs were not able to support the full wheel load plus impact and load factor The results of this research help in the continued optimization of a UHPC shape for use in highway bridges If material use in the girder is minimized UHPC bridges can become economically competitive with HPC bridges but offer the benefits of more rapid construction and better durability

High strength concrete FIP CEB Bulletin 197 FIB - International Federation for Structural Concrete,1990-08-01 **Punching Shear in Reinforced Concrete Slabs** Maria Anna Polak,2005 *ACI Manual of Concrete Practice* American Concrete Institute,2002 ACI Materials Journal ,2000 **California. Court of Appeal (2nd Appellate District). Records and Briefs** California (State)., Number of Exhibits 23 Received document entitled EXHIBITS IN SUPPORT OF REQUEST FOR IMMEDIATE STAY AND PETITION FOR WRIT **Journal - Prestressed Concrete Institute** Prestressed Concrete Institute,1980 Journal of the American Concrete Institute American Concrete Institute,1984 Each number includes Synopsis of recent articles

PCI Journal ,2009

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