

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 $\lambda = 1$

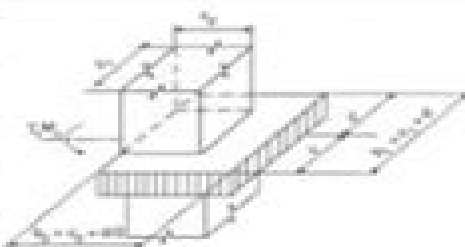
Column Dimensions

| | | | |
|-------------|--------------------------|-----------------|--|
| 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 | |

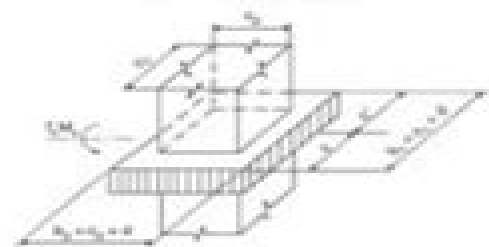
Punching Shear Input

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

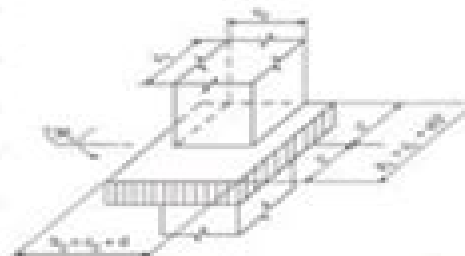
Case A: Edge Column (Bending parallel to edge)



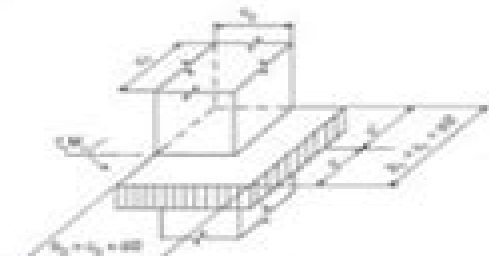
Case B: Interior Column



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 sub-traction | 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/mm ² | | ACI 11.11.2.1.a | | | |
| | $0.083 \left(\frac{a_s d}{b_o} + 2 \right) \lambda \sqrt{f_c'}$ | - 2.406 | N/mm ² | | ACI 11.11.2.1.b | | | |

Checking Punching Shear Strength By The Aci Code

JR Anderson



Checking Punching Shear Strength By The Aci Code:

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

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

ACI Structural Journal ,2009 Notes on ACI 318-08, Building Code Requirements for Structural Concrete Portland Cement Association,2008 Proceedings fib Symposium in Tel-Aviv Israel

FIB - International Federation for Structural Concrete,2013-04-01 **NBS Building Science Series** ,1974 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 *Advances in Concrete Slab Technology* Ravindra K. Dhir OBE,John G. L. Munday,2014-05-18 *Advances in Concrete Slab Technology* documents the proceedings of the International Conference on Concrete Slabs held at Dundee University on April 3 6 1979 This book discusses the influence of steel fiber reinforcement on the shear strength of slab column connections sulfur treated concrete slabs yield line analysis of orthotropically reinforced exterior panels of flat slab floors and behavior of flat slab edge column joints The design of multiple panel flat slab structures structural behavior of floor slabs in shear wall buildings shrinkage and cracking of concrete at early ages and slab construction for HAB system modules are also elaborated This text likewise covers the direct finishing of concrete slabs using the early age power grinding technique application of vacuum dewatering to in situ slab production retexturing of concrete slabs and fatigue resistance of composite precast and in situ concrete floors This publication is a good reference for students and individuals concerned with the practices and research relating to slab technology *Design of Prestressed Concrete Structures* T. Y. Lin,A. P. Burns,1991-01-16 Presents basic theory of prestressed concrete along with the load balancing working load and ultimate load methods for prestressed concrete design Material revised in light of substantial advances in the field includes materials prestressing systems loss of prestress shear and bond camber and deflection Design examples based on the 1977 ACI Code with its latest revisions

Appendix contains selected problems **High strength concrete FIP CEB Bulletin 197** FIB - International Federation
for Structural Concrete,1990-08-01 A Study of Punching Shear in Arctic Offshore Structures David Ian McLean,1987
 Punching Shear in Reinforced Concrete Slabs Maria Anna Polak,2005 **Testing and Analysis of Existing**
Slab-column Frame Buildings and Analysis of Retrofitting with Steel Bracing Shean-Horng Chien,1994 **Notes on**
ACI 318-77 Portland Cement Association,1978 ACI Materials Journal ,2003 Transactions of the Institution of
Engineers, Australia ,1986 **Journal - Prestressed Concrete Institute** Prestressed Concrete Institute,1980 **"Code**
of Massachusetts regulations, 2009" ,2009 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held
by the Social Law Library of Massachusetts as of January 2020 "Code of Massachusetts regulations, 2010" ,2010 Archival
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