

# Design Of Slab On Grade Examples

Reinforced Concrete Slabs  
Design of Slabs-on-ground  
An Analysis of Slabs-on-grade as an Anchorage System for Tilt-up Concrete Panel Temporary Braces  
Red Books  
Engineers and Engineering  
Practicability of Slab on Grade Construction for Housing in Iowa  
The Journal of the Engineers' Club of Philadelphia and Affiliated Societies  
Municipal and County Engineering  
The Far-Eastern Review  
American Architect  
Engineering-contracting  
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Concrete  
The Making, Shaping and Treating of Steel  
Canadian Engineer  
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BOCA Basic and Abridged Building Codes  
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Robert Park  
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Arthur E. Burton  
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comprehensive up to date coverage of reinforced concrete slabs from leading authorities in the field offering an essential background for a thorough understanding of building code requirements and design procedures for slabs reinforced concrete slabs second edition provides a

full treatment of today's approaches to reinforced concrete slab analysis and design now brought up to date with a wealth of new material on computer optimization the equivalent frame method lateral load analysis and other current topics the new edition of this classic text begins with a general discussion of slab analysis and design followed by an exploration of key methods equivalent frame direct design and strip methods and theories elastic lower bound and yield line theories later chapters discuss other important issues including shear strength serviceability membrane action and fire resistance comprehensive and accessible reinforced concrete slabs second edition appeals to a broad range of readers from senior and graduate students in civil and architectural engineering to practicing structural engineers architects contractors construction engineers and consultants

an analysis of concrete slabs on grade as a means of anchorage for temporary bracing of tilt up concrete panels is presented within this report a tilt up concrete panel of 42 feet in height 26 feet in width and 9 25 inches in thickness is a constant within the analysis as is a construction period wind speed of 80 mph the thickness of the concrete slab on grade and the subgrade material directly below the slab on grade are varied to achieve comparable results asce 7-16's procedure for determining wind load outlined in chapter 29 and asce 37's provisions for construction period reductions in wind load are used to calculate the wind load on the face of the tilt up panel this wind load is then translated into a force taken directly by the temporary braces this force transmitted through each brace is then divided into a vertical component and a horizontal component upon anchorage to the slab on grade for analysis two wind conditions are analyzed in the study and each condition produces two different potential failure mechanisms that must be studied the first wind condition is wind blowing on the exterior face of the panel this wind condition causes the temporary braces to be in compression with the braces in the compression the slab on grade can fail horizontally as a result of slab sliding and vertically due to punching shear failure the second wind condition is wind blowing on the interior face of the panel this wind condition causes the temporary braces to be in tension when the braces are in tension pullout of the slab on grade anchor can occur and the slab on grade can be lifted up due to the overturning moment of the wind load on the panel face the different subgrade materials analyzed in this report are gravel sand soil and a vapor retarder barrier the slab on grade thicknesses examined are 5 inch 6 inch and 8 inch each subgrade material has a different coefficient of friction and will affect the slab on grade's resistance

to sliding the thickness of the slab on grade will affect the slab's resistance to sliding punching shear and overturning moment this report outlines how each variable is adjusted to determine the slab on grade's adequacy as a means of anchorage for the temporary panel bracing results of the study show that all thicknesses of the slab on grade and subgrade conditions analyzed are adequate based on the assumed surface areas considered effective to resist against slab sliding and overturning it is recommended that physical testing be conducted to determine exactly how the slab on grade acts at saw joint and control joint locations the study assumes that control joint locations are boundary limits of slab surface area effective to resist against slab sliding and it is also assumed that saw joint locations will not be subject to slab overturning failure due to the steel reinforcing continuous across the saw joint location both of these assumptions need to be studied and verified with physical testing

slab on grade construction used in building married student housing facilities at iowa state university is described heat losses from the concrete floor slab are calculated by the graphical means using a net diagram of adiabatic lines and isothermal lines conclusions reached on the research indicate that there is adequate information available for designing similar installations and that slab on grade construction for houses is feasible in iowa supporting data including heat loss calculations heating plant data furnace performance observations and description of apparatus are appended to the report

vols 76 83 93 include reference and data section for 1929 1936 46 1929 called water works and sewerage data section

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