

Zeitschrift: IABSE congress report = Rapport du congrès AIPC = IVBH
Kongressbericht

Band: 12 (1984)

Artikel: Integrated design: the key to construction economy?

Autor: Woodhead, H.R. / Irrcher, K.K.J.

DOI: <https://doi.org/10.5169/seals-12297>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. [Siehe Rechtliche Hinweise.](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. [Voir Informations légales.](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. [See Legal notice.](#)

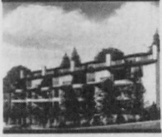
Download PDF: 18.10.2024

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

INTEGRATED DESIGN-THE KEY TO CONSTRUCTION ECONOMY?

WHAT IS "INTEGRATED DESIGN" ? —

THE PROJECT



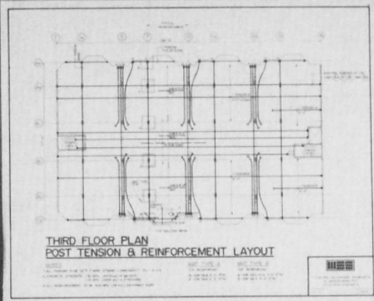
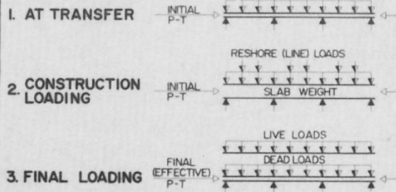
FIVE STOREY APARTMENT BUILDING
DEEP COVE, NORTH VANCOUVER, B.C.

IT IS THE COMBINATION OF DESIGN FOR THE PERMANENT LOADS WITH DESIGN FOR CONSTRUCTION LOADS IN ORDER TO MINIMIZE RESHORING.

ADVANTAGES OF FINAL DESIGN

1. LESS CONCRETE AND THEREFORE WEIGHT.
2. SIMPLIFICATION OF TRANSFER FLOOR.
3. ONE FLOOR ONLY RESHORED.
4. FASTER COMPLETION OF BUILDING BECAUSE OF FEWER RESHORED FLOORS. (PENALTY CLAUSE)
5. ECONOMY.

LOAD CASES



DESIGN HISTORY

1. ORIGINAL DESIGN - LIGHTWEIGHT STEEL FLOOR STRUCTURE AND STEEL STUD BEARING WALLS.
2. FIRST REDESIGN - REINFORCED CONCRETE FLAT SLAB WITH REINFORCED TRANSFER FLOOR.
3. FINAL DESIGN - POST-TENSIONED FLAT SLAB WITH P-T TRANSFER FLOOR.

