

albert Loh CONSULTANTS

ALBERT LOH CONSULTANTS PTE LTD 170 Upper Bukit Timah Road #19-02 Bukit Timah Shopping Centre Singapore 588179 (UEN No. 199400189M) T: +65 64698788 F: +65 64696306 E: admin@albertloh.com.sg www.albertloh.com.sg





TOTAL TOTAL



ESTABLISHED 1981

Albert Loh Consultants is an award winning Structural, Civil and Mechanical Engineering Consultancy established in 1981. We take pride in always striving to provide the best engineering solution for our clients.

Our key service objectives are Quality of Work, Innovation, Integrity and Responsiveness to our clients needs in all our projects.

Our clientele includes major international companies such as Shell, ExxonMobil, ChevronjCaltex, Glaxo, Air Liquide, GATX, Singapore Refinery Corporation, Petrochemical Corporation of Singapore and Tuas Power.

AWARD WINNING PROJECTS:



MOBIL BERTH7 - Singapore Construction Industry Board's (CIDB) Best Buildable Design Award

SHELL EAST GATE FERRY LANDING - Institution of Engineers Singapore Innovators Gold Award

JALAN BESAR STADIUM - Singapore Structural Steel Society's Inaugural Structural Steel Design Award

SINGAPORE SPORTSSCHOOL - Singapore Structural Steel Society's Steel Design Award

ALEXANDER BRIDGE - Merit Prize at Urban Redevelopment Authority's Southern Ridge Bridge Design Competition



ESTABLISHED 1981 • STRUCTURAL CIVIL & MECHANICAL ENGINEERS









We are award-winning engineers in the following areas of speciality:-

Wharves & Marine Facilities

Wharves, Dolphins, Ferry Landing Facilities, Seawalls, Offshore Structures. Study of incidents, Study of Up-rating of Berth Capacity, Study of Mooring of Vessels, Study of 4point Mooring, Study of Berthing, Study of Conversion of Usage of Building, Design of complete Jetty Structures and Topsides

Prefabricated / Precast Structures

Specialist in design and installation of prefabricated steel and precast concrete structures

In-Plant Engineering

Refinery, Piping, Structures, Tank Foundations, Equipment Foundations, Drainage Systems, Blast-proof Buildings, Offices, Switch Houses, Workshops, Warehouses, Air-conditioning Systems. Tankfarms, Sludge farm, Slops & Deballasting Facilities, Controlled Discharged Facilities, Refinery Drainage, Metering & Microfiltering Facilities, Liftpot Facilities, Blender Facilities, Compressor Stations, Seawater Intake Structures, Dynamic Analysis of structures

Long Span Structures

Innovative Long Span Column-Free Structures for Stadiums, Sports Complexes, Auditoriums, Swimming Pools, Bridges



Wharves & Marine Facilities





We have established ourselves as experts in this field and have completed many marine related projects for clients in Singapore and other parts of the world.

Our expertise is in the design of new jetties, upgrading of existing jetties with minimum cost and down-time, evaluation of existing marine facilities and modification works to existing jetties, fenders and mooring systems. We have designed over 20 jetties in and around Singapore for various sizes and types of vessels ranging from ferries to VLCCs. We have also designed LPGjetties and the mass handling jetties with large travelling cranes.

We are the pioneer for design of jetties using large prefabricated modular units with a minimum number of joints and very little in-situ concreting. The design of this system allows immediate use of the deck after placement and saves considerable construction time. The design concept has been awarded the "CIDB Best Buildable Design Awards" in October 1991.

We have completed many feasibility studies, conceptual design studies and detailed engineering packages. We are regularly engaged to perform up-rating studies on existing jetties, mooring system and fendering system to accommodate larger vessels.

We have also been engaged by terminal operators, shipping and insurance companies to conduct review/studies on incident reports or some accident cases and advise on mooring operations at terminal with adverse environmental conditions







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In-Plant Engineering

We have been involved in numerous in-plant projects with workshops, tankfarms, piperacks, tank foundations, bridges, culverts, **Blast resistant buildings**, warehouses, switch houses, fire fighting systems and other plant facilities such as **controlled discharge facilities**, **seawater intake structures** for clients such as Shell, Mobil, Exxon, Chevron, Oronite, Tankstore, BP, Caltex, SRC, PCS, Glaxochem, SOXAL, IPG and Bayer.

We have **designed in-plant foundations, structures and buildings for petrochemical plants, refineries,** the Air Separation Facilities for IPG at Pulau Ayer Chawan and for the Hydrogen Plant for SOXAL on Jurong Island.

We are familiar with designing **blast-resistant buildings** such as control buildings, FAR buildings, switch houses, laboratories, etc. We have also upgraded existing buildings to meet more stringent blast resistant requirements.

We have assisted Tankstore in carrying out the **planning and basic** engineering of their major tankfarm expansion project.

We are familiar with **dynamic analysis and equipment vibration**, and **dynamic resonance of structures** and foundations.



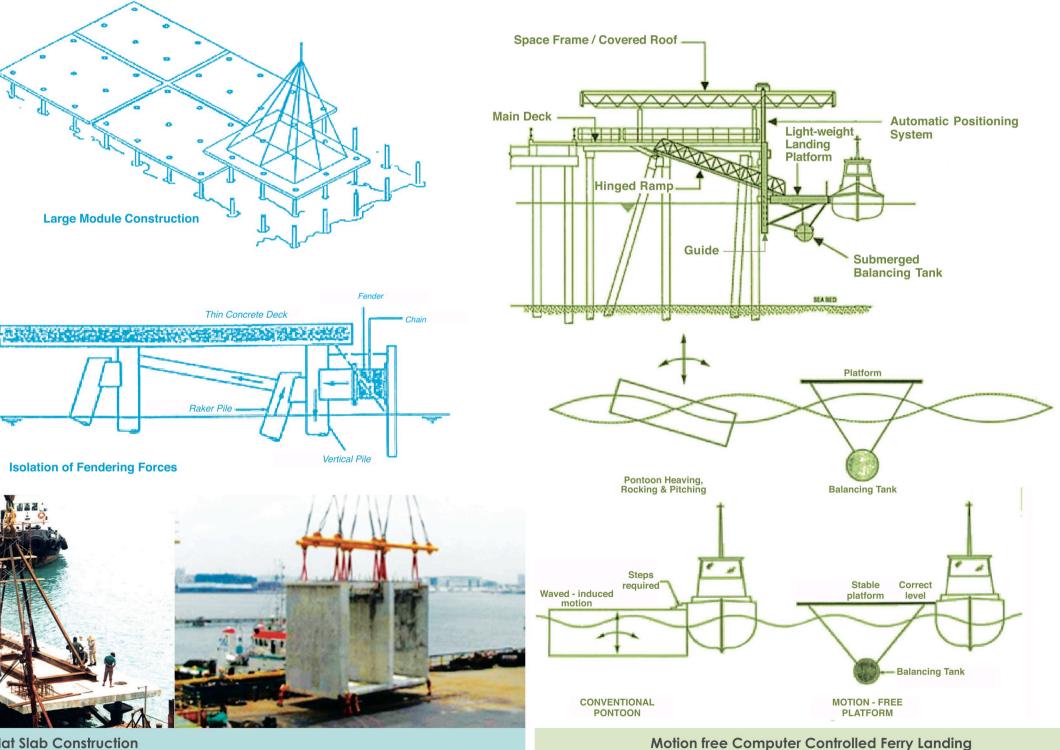


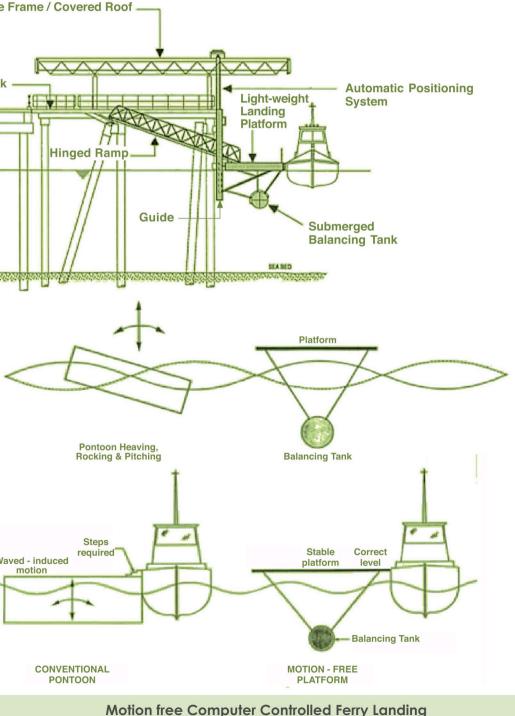
Prefabricated / Precast

AWARD WINNING ENGINEERING

Albert Loh Consultants has a proud tradition of excellent engineering. Our projects have won some of Singapore's most prestigious design awards:-

- Our design for Mobil's Berth 7, which can accommodate up to 80k DWT vessels and handle 21 products, won the Singapore Construction Industry Board's (CIDB) prestigious Best Buildable Design Award.
- Our design for motion-free computer controlled ferry landings on Pulau Bukom and Pulau Pesek won the Institution of Engineers Singapore Innovators Gold Award.



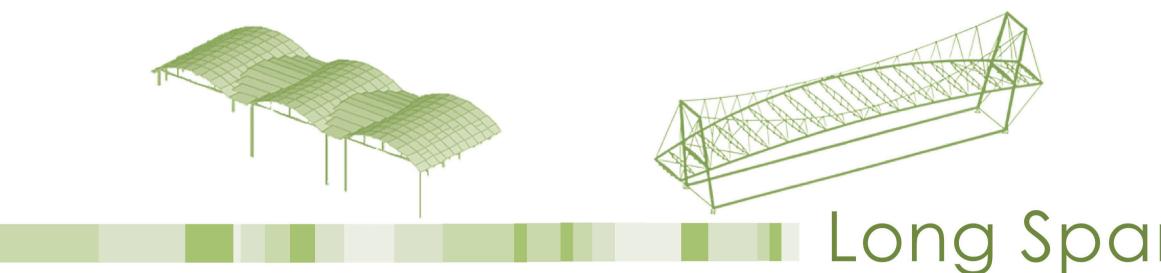


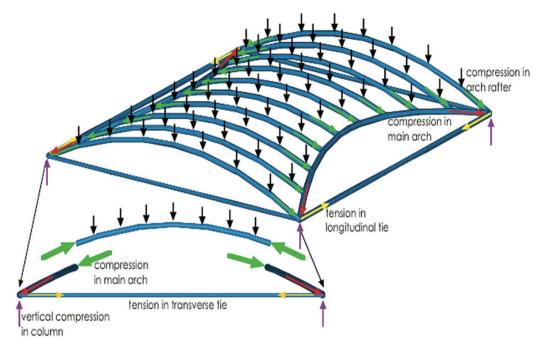
Large Module Precast Flat Slab Construction



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& Special Structures



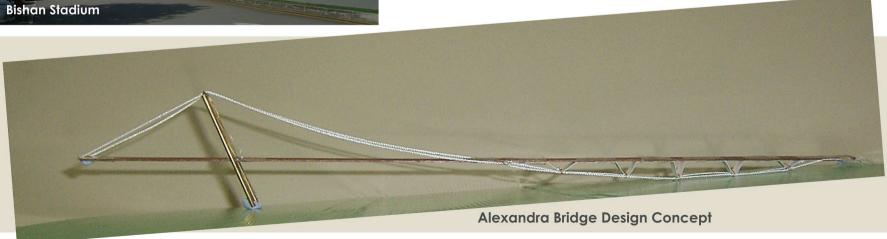












Long Span Structures

AWARD WINNING ENGINEERING

· Our design for long span steel roof of more than 160m long over main grandstand of Jalan Besar Stadium won Singapore Structural Steel Society's Inaugural Structural Steel Design Award for Distinguish Use of Structural Steel for its Aesthetics. Innovation and Cost Effectiveness.

· Our design for large span steel roof over swimming pools and sports hall of Singapore Sports School won Merit at Singapore Structural Steel Society's Steel Design Award for Creative and Innovative use of Steel.

· Our design for bridge over Alexandra Link won Merit Prize at Urban Redevelopment Authority's Southern Ridge Bridge Design Competition.

In addition, we have received letters and tokens of appreciation from our clients for excellent service.





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Project Gallery

















Our Clients

AIR LIQUIDE ENGINEERING SOUTH ASIA (ALENSA) PTE. LTD. ANTARA KOH PTE. LTD. MOBIL OIL SINGAPORE PTE. LTD. BRITISH PETROLEUM (BP) SINGAPORE PTE. LTD. OVAL ASIA PACIFIC PTE. LTD. BAN HOE SENG PTE. LTD. PETROCHEMICAL CORPORATION OF SINGAPORE (PCS) PTE. LTD. BRUNEI SHELL PETROLEUM (BSP) CO SDN BHD SINGAPORE SPORTS COUNCIL Singapore Sports School CALTEX SINGAPORE PTE. LTD. Bishan Stadium CALTEX HONG KONG LIMITED Jalan Besar Stadium Geylang East Swimming Complex CAC METHODIST CHURCH IN SINGAPORE Hougang Sports Hall Tampines Swimming Complex CHEVRON (CALTEX SINGAPORE) PTE. LTD. Reconstruction at Kallang Basin Swimming Pool CHEVRON ORONITE PTE. LTD. Sailing Centre at Seletar Country Club Breakwater at the National Sailing Centre CHEVRON USA INC SEMBAWANG ENGINEERING PTE. LTD. CHANGI AIRPORT FUEL HYDRANT INSTALLATION PTE. LTD. SHELL EASTERN PETROLEUM (SEPL) PTE. LTD. EDELEANU ASIA PTE. LTD. SINGAPORE REFINING COMPANY (SRC) PTE. LTD. **ESSO SINGAPORE PTE. LTD.** SINGAPORE OXYGEN AIR LIQUIDE (SOXAL) PTE. LTD. **EXXONMOBIL PTE. LTD** TANKER MOORING SERVICES PTE. LTD. FOSTER WHEELER PTE. LTD. TANKSTORE PTE. LTD. GLAXOCHEM PTE. LTD. TUAS POWER UTILITIES PTE. LTD. HELIOS TERMINAL CORPORATION PTE. LTD. WORLEYPARSONS PTE. LTD. HSL CONSTRUCTOR PTE. LTD.

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