

CONSTRUCTION EXCELLENCE AWARD

The Award

The BCA Construction Excellence Award was introduced in 1986 to promote and enhance construction excellence in the industry. It gives recognition to builders and other project parties for achieving excellence in areas of management, technology and construction quality.

AWARD CATEGORIES

- Commercial/Mixed Development Buildings
- Industrial Buildings
- Institutional Buildings
- Residential Buildings (\$1200/m² and Above)
- Residential Buildings (Below \$1200/m²)
- Small Buildings - \$3 million to \$10 million
- Civil Engineering Projects

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Building and Construction Authority

CONSTRUCTION EXCELLENCE AWARD

Residential Buildings – \$1,200/m² and Above Category

THE SHAUGHNESSY (AWARD)



Builder	Woh Hup (Pte) Ltd
Client	Allgreen Properties Limited
Architectural Consultant	3PA International
Structural Consultant	Meinhardt (S) Pte Ltd
M&E Consultant	J M Pang & Associates
Quantity Surveyor	KPK Quantity Surveyors (1995) Singapore Pte Ltd
Construction Cost	\$76.6 million
Construction Period	Phase 1 - 26 months / Phase 2 - 22 months
Gross Floor Area	58,509m ²

Key Features:

- An “Island Method” of basement excavation: elevated access-on-grade is maintained without hindering the basement excavation and construction
- Precast elements were widely used to speed up the construction process
- A perimeter 300mm high fencing kerb was installed to eliminate flooding from neighbouring site
- RC stiffeners were constructed on all external half-brick walls to house M&E points

Residential Buildings – \$1,200/m² and Above Category

BAYWATER CONDOMINIUM (AWARD)



Builder	Woh Hup (Pte) Ltd
Client	Allgreen Properties Limited
Architectural Consultant	TAA Architects Pte Ltd
Structural Consultant	Web Structures
M&E Consultant	Alpha Engineering Consultant
Quantity Surveyor	Davis Langdon & Seah Singapore Pte Ltd
Construction Cost	\$38 million
Construction Period	28 months
Gross Floor Area	26,342m ²

Key Features:

- Redesigning of basement to achieve minimum 20% opening so that a ductless ventilation system can be used instead of mechanical ventilation
- Changed the cantilever roof feature from cast in-situ to precast
- Adoption of a reinforced concrete (RC) flat slab system with perimeter beam for superstructure
- Provision of a 350mm high RC kerb at wet areas to enhance water-tightness

CONSTRUCTION EXCELLENCE AWARD

Residential Buildings – \$1,200/m² and Above Category

THE PIER @ ROBERTSON (AWARD)



Builder	Sumitomo Mitsui Construction Co., Ltd
Client	City Developments Limited
Architectural Consultant	AXIS Architects Planners
Structural Consultant	LSW Consulting Engineers
M&E Consultant	Meinhardt (S) Pte Ltd
Quantity Surveyor	Davis Langdon & Seah Singapore Pte Ltd
Construction Cost	\$45.2 million
Construction Period	29 months
Gross Floor Area	20,269m ²

Key Features:

- Secant pile retaining wall along the entire basement perimeter to effectively provide a water-tight basement next to the river
- Precast concrete formwork in pile caps to speed up the construction of substructure
- 2-tier precast concrete columns with bolted joints from basement to level 1
- Extensive use of precast components to increase productivity

Residential Buildings – \$1,200/m² and Above Category

THE BOTANIC ON LLOYD (AWARD)



Builder	Nakano Singapore (Pte) Ltd
Client	CapitaLand Residential Singapore
Architectural Consultant	MKPL Architects
Structural Consultant	P & T Consultants Pte Ltd
M&E Consultant	Alpha Engineering Consultant
Quantity Surveyor	Rider Levett Buckall
Construction Cost	\$31.6 million
Construction Period	29 months
Gross Floor Area	13,229m ²

Key Features:

- Bored piling for foundation and jack-in sheet piles for shoring to reduce noise, vibration and restrict soil movement
- Mock-up units used as reference for design refinement and references for workmanship
- Comprehensive Defects Management Programmes to minimise complaints on defects
- Innovative methods/products e.g. instant matured greenery by transplanting and penetration-proof drop edges

CONSTRUCTION EXCELLENCE AWARD

Small Buildings – \$3 million to \$10 million Category

BUTTERWORTH 33 (AWARD)



Builder	Juho Construction Pte Ltd
Client	City Developments Limited
Architectural Consultant	HUAY Architects
Structural Consultant	LSW Consulting Engineers
M&E Consultant	Belmacs Pte Ltd
Quantity Surveyor	KPK Quantity Surveyors (1995) Singapore Pte Ltd
Construction Cost	\$5.9 million
Construction Period	16 months
Gross Floor Area	2,932 m ²

Key Features:

- Improved productivity by adopting “Jack-in Spun Pile” foundation instead of conventional bored piling
- Extensive use of pre-cast building components
- Use of precast toilet walls to achieve better water-tightness and good quality finishing
- Use of full-height aluminium-glass window panels for neater and easier construction

Residential Buildings – Below \$1,200/m² Category

deRoyale (AWARD)



Builder	Straits Construction Co. (Pte) Ltd
Client	Hoi Hup Holdings Pte Ltd
Architectural Consultant	JGP Architecture (S) Pte Ltd
Structural Consultant	LBW Consultants LLP
M&E Consultant	KG Goh Consultants
Construction Cost	\$29.1 million
Construction Period	30 months
Gross Floor Area	24,876 m ²

Key Features:

- Use of integrated products to simplify construction
- Pre-assembled solutions to minimise critical path activities, e.g. large steel roof truss, perforated steel staircase
- Not having a basement and converting the ground carpark to suspended slab to minimise settlement
- Use of external hanging cage (spanning 3 floors) as working platform for working at height

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Residential Buildings – Below \$1,200/m² Category

EDGEDALE GREEN – PUNGGOL EAST CONTRACT 31 (AWARD)



Builder	Poh Lian Construction Pte Ltd
Client	Housing & Development Board
Architectural Consultant	Surbana International Consultants Pte Ltd
Structural Consultant	Surbana International Consultants Pte Ltd
M&E Consultant	Surbana International Consultants Pte Ltd
Quantity Surveyor	Surbana International Consultants Pte Ltd
Construction Cost	\$87 million
Construction Period	36 months
Gross Floor Area	74,570 m ²

Key Features:

- Effective planning in overcoming the constraints of proximity to the elevated LRT viaduct
- Redesigning the entrance slab to bridge over existing triple-celled culvert drain
- Provision of additional strengthening works for the precast 3-tier columns
- Integration of the driveway lamp posts with the planter boxes

CONSTRUCTION EXCELLENCE AWARD

Civil Engineering Projects Category

DEEP TUNNEL SEWERAGE SYSTEM (DTSS) – CHANGI WATER RECLAMATION PLANT CONTRACT C2B (AWARD)



Builder	Lum Chang Building Contractors Pte Ltd
Client	PUB Singapore
Principal Consultant	CH2M Hill Singapore Pte Ltd in partnership with CPG Consultants Pte Ltd
Structural Consultant	CH2M Hill Singapore Pte Ltd in partnership with CPG Consultants Pte Ltd
M&E Consultant	CH2M Hill Singapore Pte Ltd in partnership with CPG Consultants Pte Ltd
Quantity Surveyor	CH2M Hill Singapore Pte Ltd in partnership with CPG Consultants Pte Ltd
Construction Cost	\$193 million
Construction Period	45 months

Key Features:

- Successful supply and installation of large, specialised and sophisticated equipment
- Use of advanced computer modelling with 3-dimensional design and database tools for design and construction
- Use of better alternate corrosion protection lining system from Germany called KK10 (2-component acid resistant polymer silicate) instead of the wet coarse screen shaft with adhesive bonded sheet membrane
- Replacing of cement-mortar lining of pressure pipelines with cost saving, better and faster cast in-situ High Density Polyethylene (HDPE) lined reinforced concrete

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Residential Buildings - \$1,200/m² & Above Category

LE CRESCENDO (MERIT)



Builder	Woh Hup (Pte) Ltd
Client	GuocoLand (Singapore) Pte. Ltd.
Project Manager	GuocoLand Property Management Pte. Ltd.
Architectural Consultant	Design Link Architects Pte Ltd
Structural Consultant	DE Consultants (S) Pte Ltd
M&E Consultant	Parsons Brinckerhoff Pte Ltd
Quantity Surveyor	KPK Quantity Surveyors (1995) Singapore Pte Ltd
Construction Cost	\$42.2 million
Construction Period	35 months
Gross Floor Area	25,878m ²

Residential Buildings - \$1,200/m² & Above Category

THE NEXUS (MERIT)



Builder	Tiong Aik Construction Pte Ltd
Client	Orwin Development Ltd
Architectural Consultant	Architects 61 Ltd
Structural Consultant	T.Y.Lin International Pte Ltd
M&E Consultant	J. Roger Preston (S) Pte Ltd
Quantity Surveyor	Davis Langdon & Seah Singapore Pte Ltd
Landscape Consultant	Sitetectonix Pte Ltd
Construction Cost	\$44.9 million
Construction Period	31 months
Gross Floor Area	27,755m ²

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MIMOSA TERRACE PHASE 5 (MERIT)

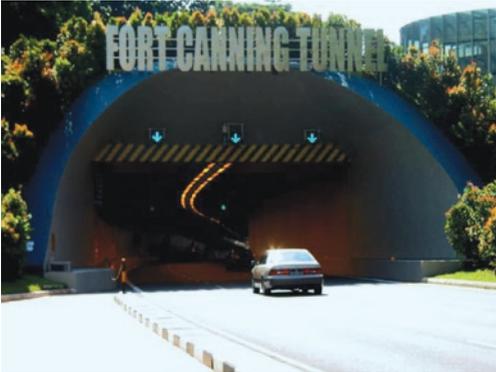


Builder	Seah Construction Pte Ltd
Client	Singapore United Estates Pte Ltd
Architectural Consultant	RSP Architects Planners & Engineers (Pte) Ltd
Structural Consultant	RSP Architects Planners & Engineers (Pte) Ltd
M&E Consultant	Squire Mech Pte Ltd
Quantity Surveyor	Davis Langdon & Seah Singapore Pte Ltd
Construction Cost	\$11 million
Construction Period	24 months
Gross Floor Area	8,628m ²

CONSTRUCTION EXCELLENCE AWARD

Civil Engineering Projects Category

DESIGN AND CONSTRUCTION OF FORT CANNING TUNNEL AND REALIGNMENT OF STAMFORD ROAD (MERIT)



Builder	Sato Kogyo (S) Pte Ltd
Client	Land Transport Authority
Principal Consultant	Land Transport Authority
Structural Consultant	T.Y.Lin International Pte Ltd
Construction Cost	\$25.9 million
Construction Period	35 months
Length of Tunnel	350m