



Rider
Levett
Bucknall

**RIDERS
DIGEST
2020**

**PERTH,
AUSTRALIA
EDITION**

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RIDERS DIGEST

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A yearly publication from RLB's Research & Development department.

Riders Digest is a compendium of cost information and related data specifically prepared by RLB for the Australian construction industry.

While the information in this publication is believed to be correct, no responsibility is accepted for its accuracy. Persons desiring to utilise any information appearing in this publication should verify its applicability to their specific circumstances. Cost information in this publication is indicative and for general guidance only and is based on rates ruling at Fourth Quarter 2019 (unless stated differently). All figures exclude GST.

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INTRODUCTION

RIDER LEVETT BUCKNALL

“CONFIDENCE TODAY INSPIRES TOMORROW”

With a network that covers the globe and a heritage spanning over two centuries, Rider Levett Bucknall is a leading independent organisation in quantity surveying and advisory services.

Our achievements are renowned: from the early days of pioneering quantity surveying, to landmark projects such as the Sydney Opera House, HSBC Headquarters Building in Hong Kong, the 2012 London Olympic Games and CityCenter in Las Vegas.

We continue this successful legacy with our dedication to the value, quality and sustainability of the built environment. Our innovative thinking, global reach, and flawless execution push the boundaries. Taking ambitious projects from an idea to reality.

“CREATING A BETTER TOMORROW”

The Rider Levett Bucknall vision is to be the global leader in the market, through flawless execution, a fresh perspective and independent advice.

Our focus is to create value for our customers, through the skills and passion of our people, and to nurture strong long-term partnerships.

By fostering confidence in our customers, we empower them to bring their imagination to life, to shape the future of the built environment, and to create a better tomorrow.

PROFESSIONAL SERVICES

Cost Management and Quantity Surveying	6
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COST MANAGEMENT AND QUANTITY SURVEYING SERVICES

The skilled cost management professionals at RLB use many tools when creating a plan that optimises the relationship between the cost and quality of a project and a client's cost objectives. The services offered by the firm to achieve these objectives are:

- Preparation of preliminary elemental estimates based on preliminary design
- Preparation of detailed estimates and cost planning advice throughout design development
- Estimation of building services
- Participation and leadership in the value management process
- Comparative cost studies and advice on cost effective design solutions
- Advice on materials selection and general buildability advice
- Advice on selection of tenderers
- Attendance at design meetings and construction control meetings

Feasibility Analysis

An accurate, reliable feasibility study is an essential prerequisite to any procurement decision-making process. Feasibility studies assess the viability of a project over its expected life and indicate the probable return, either at the point of sale or over a period of time, generally using discounted cash flow techniques. They can also assist in the process of obtaining project financing, as well as highlight variables that have the greatest impact on project returns.

Whether it's a simple developer's return on capital cost feasibility or a detailed discounted cash flow feasibility based on a range of rates of return and risk sensitivity tests, RLB can provide expert analysis and materials.

Financial Institution Auditing

RLB takes a two-step approach to financial institution audits.

At the pre-commencement stage, the firm looks beyond the items identified in the financier's brief, and expands upon it with a full analysis of all risk-related issues, providing a comprehensive profile of the project.

During the post-contract stage, the company provides detailed cost-to-complete assessments. This ensures there are adequate funds should the financier be required to initiate step-in rights.

To provide effective financial management of the development process for the duration of the project, RLB will prepare a pre-commencement report including auditing project costs and the adequacy of project documentation, monitor authority approvals, prepare progress payment assessments and recommendations, and prepare cost-to-complete assessments.

Post-Contract Services

RLB ensures the successful performance building contracts by applying proven cost management, monitoring and cost reporting procedures, as well as through managing a productive working relationship with the project team.

To ensure efficient progress as specified in the cost plan, the firm will:

- Review progress claims for work in progress and recommend payment values
- Monitor documentation changes
- Prepare regular financial statements forecasting final end cost
- Measure, price, and negotiate variations
- Structure agreement of final account
- Attend meetings to represent the financial interests of the client

Tendering and Documentation

Among the tendering and documentation services offered by RLB:

- Preparation of bills/schedule bills of quantities or schedule of rates
- Preparation of bid documentation for tendering contractors
- Strategic advice of method of project procurement and tendering
- Advice on suitability of contractor tender lists
- Review of tenders received, reconciliation to budget, and recommendation of contractor
- Attendance at tender interviews

COST MANAGEMENT AND QUANTITY SURVEYING SERVICES

Value Management

RLB offers a strategic value-management process that is dedicated to assisting with the improvement of value obtained in capital expenditure. This is achieved through participatory workshops which challenge option and design assumptions and encourage creative and lateral thinking for better value solutions.

The integration of value management with cost management results in a powerful and dynamic approach to the economic management of projects, especially during the design process.

PROJECT PROGRAMMING

With an in-depth knowledge of a wide range of construction techniques and delivery methodologies, and experience working for owners and developers as well as contractors, we manage the time related risks on your projects, allowing you to focus on what you do best.

The skilled project programming professionals at RLB have strong capabilities across all building sectors, and utilise the latest project planning techniques.

We bring a solid reputation for providing reliable and accurate information and translating complex information into a format that can be easily understood and acted upon.

It is often said that 'time is money', so it makes sense that RLB provide you with the ability to manage both cost and time delivering tangible benefits for you in terms of saving time on your projects and most importantly, saving money.

ADVISORY SERVICES

RLB's depth of experience in all aspects of the property cycle enables us to deliver mature and innovative solutions for property, construction, and facilities sector clients in seven principal areas:

Asset Advisory

With total operating costs amounting to several times the initial capital cost, clients are increasingly focused on longer term strategies that span their investment horizons and beyond, to ensure they are able to consider the impact on value at all points in a property's useful life. RLB works with owners and occupiers of buildings to ensure that they are able to take full account of the total impact of their buildings and can advise on many alternate methods of identifying and accounting for assets.

RLB is expert in the following strategic services:

- Total Asset Management Planning to ISO Standards
- Asset Recognition and Rationalisation
- Cost-Benefit Analysis
- Sustainability and Environmental Performance Issues
- Whole-Life Cost Modeling

RElifying of Assets

RLB is a pioneer in using building life-extension and repositioning studies to realise and optimise the use of buildings. This methodology identifies if, when, and where to spend money to capture remaining asset values and extend the life of existing buildings.

Facilities Consultancy

Facilities management is the business practice of optimising people, process, assets, and the work environment to support the delivery of the organisation's business objectives. As acknowledged thought-leaders in the facilities management field, RLB works with a diverse range of clients to enhance facilities performance through:

- Facilities Management (FM) Planning
- Building Quality Assessments (BQA)
- Facilities and Operational Performance Audits
- Maintenance Planning and Operating Expenditure Forecast
- Performance Reviews and Benchmarking
- Post-Occupancy Evaluations
- Space Audits and Utilisation Studies

ADVISORY SERVICES

Building Surveying

RLB works closely with major developers, corporations, fund managers, financial institutions, and property owners and tenants to understand, maintain, and enhance the value of their built assets. The firm's expertise includes:

- Condition/Dilapidation Surveys
- Compliance Advisory
- Conservation and Heritage Surveys
- Tenancy Make-Good Reinstatements Surveys

By combining a practical knowledge of construction issues with a strong understanding of property law, RLB offers a multi-faceted building surveying service that is responsive to the client's needs. The firm's understanding of local markets enables us to deliver a solution that is appropriate to your specific requirements.

Risk Mitigation and Due Diligence

RLB understands that clients and stakeholders are increasingly requiring more detailed information to ensure a level of confidence is achieved and maintained in terms of enhancing value and mitigating risks. The firm can conduct risk assessments to review the scope of required work, identify project risks, prioritise key issues, provide risk analysis and develop risk management action plans for your strategic asset/facilities plan or next capital works project.

RLB can provide key advisory services targeted at risk mitigation, including:

- Review of the scope of required work
- Identification of project risks
- Capital Expenditure Forecasting
- Prioritisation of key issues
- Risk analysis and customized risk-management action plans

In addition, RLB's expert services extend to specific associated property risks, among them:

- Insurance replacement cost assessments
- Technical due diligence (for owners, vendors, purchasers and tenants)
- Services procurement, outsourcing, compliance, and supply chain issues

Property Taxation

RLB recognises the financial, compliance, and management benefits that can be achieved by adopting taxation advice from professionals who understand the business of property. The firm provides its clients with advice on capital allowances and property tax assessment and depreciation, inventories and asset registers, and changes in tax legislation to enable them to optimise their entitlements and potential for existing assets and new projects. Its experienced and qualified staff can provide proactive reporting and analysis of how taxation changes may affect a client's real estate decisions, including capital gains tax, land taxes and rating assessments, and stamp duty.

RLB's experience in property taxation covers all asset types. Data has been retained and compiled over many years to enable the firm to produce dynamic models that can quickly produce accurate indicative analysis for all property situations.

Litigation Support

RLB has a team of highly seasoned professionals with considerable expertise in the litigation arena. The firm offers comprehensive front-end, claims management, and dispute resolution services, and has particular expertise in scope definition claims appraisal, documentation, and negotiation; expert witness and determination; and arbitration and mediation.

Procurement Strategies

RLB develops procurement strategies that provide a systematic means of analysing the costs and benefits during project development, before any commitment is given to a particular option, including:

- Clear definition of project objectives
- Identification of practical ranges of options
- Quantification of the costs and benefits of each option
- Consideration for qualitative aspects
- Identification of the preferred option and development of action plans

ADVISORY SERVICES

RLB can examine the issues and assist in the development and evaluation of a project or service delivery with vast experience and knowledge of value enhancement through:

- Needs Analysis and Brief Definition
- Feasibility Studies
- Develop, Own and Lease Options
- Contractual Arrangements
- Project Monitoring and Certifications
- Value Engineering/Management Workshops

Our services do not deal with asset creation and capital projects alone. RLB's expertise and experience extends to property transactions, services procurement, outsourcing operations and supply chain management. RLB is uniquely positioned to provide independent and specialist advisory services and supplementary support to a client who wishes for certainty in contractual outcomes.

Research

- Industry and sectoral workload
- Cost escalation
- Cost benchmarking by sector
- Industry trend analysis

INTERNATIONAL CONSTRUCTION

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INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

Refer to www.rbintelligence.com for updates.

LOCATION /CITY	LOCAL CURRENCY	COST PER M ²			
		OFFICE BUILDING			
		PREMIUM		GRADE A	
		LOW	HIGH	LOW	HIGH
AMERICAS @ Q3 2019					
BOSTON	USD	3,500	5,380	2,420	3,500
CHICAGO	USD	3,015	4,845	1,885	3,015
DENVER	USD	2,370	3,015	1,780	2,155
HONOLULU	USD	3,120	5,705	2,635	4,305
LAS VEGAS	USD	1,720	3,175	1,455	2,045
LOS ANGELES	USD	2,530	3,820	1,885	2,800
NEW YORK	USD	4,305	6,460	3,230	4,305
PHOENIX	USD	2,045	3,765	1,615	2,155
TORONTO	CAD	2,260	3,015	2,045	2,905
ASIA @ Q4 2019					
BEIJING	RMB	8,700	14,250	8,000	12,250
GUANGZHOU	RMB	7,700	12,250	7,100	10,750
HO CHI MINH CITY	VND ('000)	25,500	35,800	21,300	26,500
HONG KONG	HKD	22,500	33,500	19,250	25,750
JAKARTA	Rp ('000)	10,150	15,900	7,500	11,550
KUALA LUMPUR	RINGGIT	2,600	4,500	1,400	3,200
MANILA	PHP	37,600	55,400	np	np
SEOUL	KRW ('000)	2,575	3,350	1,950	2,400
SHANGHAI	RMB	8,300	13,250	7,400	11,500
SINGAPORE	SGD	2,900	4,950	2,050	3,950
EUROPE @ Q4 2019					
AMSTERDAM	EUR	1,400	2,000	1,160	1,560
BIRMINGHAM	GBP	2,050	2,900	1,660	3,050
BRISTOL	GBP	2,150	3,050	1,740	3,050
EDINBURGH	GBP	1,880	2,650	1,640	2,650
LONDON	GBP	3,050	3,950	2,750	3,750
MANCHESTER	GBP	2,200	2,850	1,880	2,850
MOSCOW	EUR	1,360	1,860	1,200	1,460
OSLO	EUR	2,450	3,000	1,800	2,150
MIDDLE EAST @ Q4 2019					
ABU DHABI	AED	5,700	6,800	4,600	6,400
DUBAI	AED	6,000	7,200	4,850	6,800
RIYADH	SAR	5,200	8,100	5,300	7,300
OCEANIA @ Q4 2019					
ADELAIDE	AUD	2,700	3,800	2,250	3,150
AUCKLAND	NZD	3,700	4,900	3,100	4,650
BRISBANE	AUD	3,000	4,400	2,500	3,800
CANBERRA	AUD	3,500	5,500	2,800	4,300
CHRISTCHURCH	NZD	3,700	4,700	2,900	4,350
DARWIN	AUD	3,100	4,150	2,400	3,800
GOLD COAST	AUD	2,800	4,400	2,050	3,200
MELBOURNE	AUD	3,450	4,600	2,650	3,650
PERTH	AUD	3,000	4,700	2,400	3,750
SYDNEY	AUD	3,900	5,800	2,950	4,250
WELLINGTON	NZD	4,200	5,000	3,050	4,300

The following data represents estimates of current building costs in the respective market. Costs may vary as a consequence of factors such as site conditions, climatic conditions, standards of specification, market conditions etc.

Rates are in national currency per square metre of Gross Floor Area except as follows:

Chinese cities, Hong Kong and Macau: Rates are per square metre of Construction Floor Area, measured to outer face of external walls.

Singapore, Ho Chi Minh City, Jakarta and Kuala Lumpur: Rates are per square metre of Construction Floor Area, measured to outer face of external walls and inclusive of covered basement and above ground parking areas.

Chinese cities, Hong Kong, Macau and Singapore: All hotel rates are inclusive of Furniture Fittings and Equipment (FF&E).

COST PER M ²					
RETAIL				RESIDENTIAL MULTI STOREY	
MALL		STRIP SHOPPING		LOW	HIGH
LOW	HIGH	LOW	HIGH		
2,155	3,230	1,615	2,585	1,990	3,390
1,990	3,120	1,455	2,370	1,775	4,305
1,025	1,615	860	1,885	970	2,155
2,260	5,330	1,940	4,680	2,155	4,845
1,240	5,380	860	1,560	970	4,360
1,670	3,660	1,400	2,045	2,420	3,985
2,960	4,575	1,885	3,230	2,155	4,035
1,290	2,690	860	1,615	970	2,690
2,475	3,015	1,290	1,720	2,045	2,475
9,500	14,500	8,300	13,000	4,500	9,300
8,800	12,500	7,600	11,500	4,050	8,100
20,775	27,650	NP	NP	15,900	24,350
22,500	28,500	19,250	25,000	21,000	42,000
6,525	9,000	NP	NP	6,875	16,000
2,100	3,500	NP	NP	1,900	4,500
38,900	60,100	50,600	67,000	31,000	72,500
1,750	2,525	1,450	2,225	1,675	2,825
8,700	13,750	7,700	12,500	4,050	8,300
1,900	3,300	NP	NP	1,900	3,100
1,540	2,200	1,000	1,540	1,160	1,860
3,050	4,250	960	1,820	1,740	2,400
3,000	4,200	950	1,800	1,260	1,800
2,900	4,050	920	1,720	1,720	2,450
3,650	5,200	1,180	2,200	2,600	4,500
3,050	4,300	980	1,840	1,820	2,650
1,100	1,800	1,060	1,300	650	1,200
2,100	2,700	1,800	2,150	1,880	1,780
4,000	6,300	NP	NP	4,400	6,500
4,250	6,700	NP	NP	4,650	6,900
3,300	6,000	3,600	5,100	3,150	13,750
1,600	3,000	1,300	1,840	2,300	3,550
2,850	3,200	1,660	2,050	4,000	4,900
2,200	3,600	1,400	2,000	2,400	4,400
2,400	4,050	1,260	2,550	2,950	5,200
2,550	2,900	1,440	1,840	3,400	4,100
1,760	2,650	1,260	2,150	2,050	2,650
2,500	3,500	1,200	1,800	1,760	4,500
2,350	3,400	1,320	1,780	2,650	4,650
1,900	2,900	1,000	2,500	1,900	4,100
2,200	4,600	1,660	2,200	2,850	6,200
2,950	3,150	NP	NP	3,900	4,800

INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

Refer to www.rbintelligence.com for updates.

LOCATION /CITY	LOCAL CURRENCY	COST PER M ²			
		HOTELS			
		3 STAR		5 STAR	
		LOW	HIGH	LOW	HIGH
AMERICAS @ Q3 2019					
BOSTON	USD	2,960	4,200	4,305	6,245
CHICAGO	USD	3,120	4,415	4,305	7,105
DENVER	USD	2,155	2,960	3,070	3,985
HONOLULU	USD	3,500	5,920	5,595	8,075
LAS VEGAS	USD	1,615	3,230	4,305	5,920
LOS ANGELES	USD	3,015	3,875	4,035	5,815
NEW YORK	USD	3,230	4,305	4,305	6,460
PHOENIX	USD	1,830	3,230	4,305	5,920
TORONTO	CAD	2,205	2,850	4,305	5,380
ASIA @ Q4 2019					
BEIJING	RMB	11,000	14,000	14,750	19,500
GUANGZHOU	RMB	10,500	12,500	14,000	18,000
HO CHI MINH CITY	VND ('000)	25,175	32,550	35,850	43,000
HONG KONG	HKD	28,250	32,750	34,000	41,750
JAKARTA	RP ('000)	13,500	19,000	18,000	24,000
KUALA LUMPUR	RINGGIT	2,500	3,500	5,000	7,000
MANILA	PHP	55,700	70,200	86,000	101,200
SEOUL	KRW ('000)	1,900	2,650	3,500	5,200
SHANGHAI	RMB	10,500	13,500	14,250	19,000
SINGAPORE	SGD	3,200	3,650	4,200	4,850
EUROPE @ Q4 2019					
AMSTERDAM	EUR	1,340	1,700	1,920	2,850
BIRMINGHAM	GBP	1,420	2,200	2,350	3,300
BRISTOL	GBP	1,460	1,960	2,500	3,350
EDINBURGH	GBP	1,400	2,050	2,200	3,050
LONDON	GBP	1,940	2,500	2,900	3,850
MANCHESTER	GBP	1,580	1,960	2,350	3,200
MOSCOW	EUR	1,600	2,000	2,300	2,950
Oslo	EUR	2,850	3,100	3,150	3,800
MIDDLE EAST @ Q4 2019					
ABU DHABI	AED	5,900	8,300	8,800	11,750
DUBAI	AED	6,200	9,300	9,300	14,500
RIYADH	SAR	6,400	8,000	17,000	20,000
OCEANIA @ Q4 2019					
ADELAIDE	AUD	2,750	3,550	3,700	4,550
AUCKLAND	NZD	4,200	4,750	6,500	7,200
BRISBANE	AUD	3,000	4,200	4,200	5,700
CANBERRA	AUD	3,100	5,300	4,250	6,400
CHRISTCHURCH	NZD	4,100	4,600	5,100	6,200
DARWIN	AUD	2,850	3,550	3,600	4,450
GOLD COAST	AUD	2,800	4,000	4,000	5,600
MELBOURNE	AUD	3,100	4,000	4,400	5,900
PERTH	AUD	2,600	3,600	3,600	4,800
SYDNEY	AUD	3,500	4,400	4,800	6,600
WELLINGTON	NZD	4,100	4,600	5,100	6,700

The following data represents estimates of current building costs in the respective market. Costs may vary as a consequence of factors such as site conditions, climatic conditions, standards of specification, market conditions etc.

Rates are in national currency per square metre of Gross Floor Area except as follows:

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Singapore, Ho Chi Minh City, Jakarta and Kuala Lumpur: Rates are per square metre of Construction Floor Area, measured to outer face of external walls and inclusive of covered basement and above ground parking areas.

Chinese cities, Hong Kong, Macau and Singapore: All hotel rates are inclusive of Furniture Fittings and Equipment (FF&E).

COST PER M ²					
CAR PARKING				INDUSTRIAL WAREHOUSE	
MULTI STOREY		BASEMENT		LOW	HIGH
LOW	HIGH	LOW	HIGH		
915	1,505	1,075	1,720	1,185	2,045
860	1,345	1,345	1,830	1,185	1,990
805	1,075	1,345	1,615	970	1,615
1,075	1,560	1,505	2,850	1,560	2,475
540	915	645	1,615	645	1,075
1,130	1,345	1,400	2,045	1,290	1,990
1,025	1,885	1,345	2,155	1,240	2,155
485	805	755	1,185	645	1,075
805	1,185	1,240	1,615	860	1,075
2,500	3,450	4,200	7,300	4,850	6,200
2,250	3,200	3,950	6,900	4,450	5,500
9,225	13,750	18,925	25,850	6,225	9,400
8,800	10,750	18,500	25,250	15,000	18,750
3,500	4,500	6,000	8,000	4,800	6,100
800	1,200	1,400	3,400	1,000	1,800
NP	NP	NP	NP	53,300	68,100
730	910	940	1,200	1,300	1,625
2,350	3,350	4,350	7,300	4,400	5,700
750	1,300	1,460	2,100	1,060	1,320
430	650	800	1,240	460	820
400	750	880	1,520	450	640
440	870	1,040	1,620	440	700
360	700	870	1,500	390	700
470	930	1,240	2,000	520	920
580	740	1,100	1,600	510	740
440	560	810	1,020	500	700
480	550	980	1,080	1,260	1,540
1,760	3,500	2,800	4,400	1,460	2,650
2,400	3,700	3,200	4,650	1,900	3,000
2,450	3,050	3,300	3,850	3,550	4,300
680	980	1,340	1,960	650	1,100
1,060	1,360	2,300	2,800	780	1,060
1,000	1,500	1,700	2,200	750	1,200
790	1,320	1,060	1,840	740	1,400
970	1,400	2,050	2,250	740	1,140
750	1,260	1,180	1,540	800	1,420
850	1,400	1,600	2,200	750	1,200
860	1,360	1,360	1,880	700	1,300
650	1,000	1,800	3,100	550	1,060
840	1,300	1,220	2,000	800	1,300
1,440	1,640	2,850	3,050	1,020	1,400

INTERNATIONAL CONSTRUCTION RLB ESCALATION FORECASTS

RLB TENDER PRICE INDEX ANNUAL CHANGE

All indices are stated as annual percentage changes.

Refer to www.rlbintelligence.com for updates.

CALENDAR YEAR	2017	2018	2019 (F)	2020 (F)	2021 (F)	2022 (F)
AFRICA @ Q2 2019						
DURBAN	6.2	6.3	5.0	5.6	5.8	5.9
JOHANNESBURG	7.9	4.1	5.1	5.5	5.7	NP
MAPUTO	0.3	0.5	1.0	1.1	NP	NP
AMERICAS @ Q3 2019						
BOSTON	3.2	4.4	4.5	4.0	4.0	3.0
CALGARY	0.3	7.3	5.0	4.0	3.0	3.0
CHICAGO	5.3	7.6	5.3	4.0	3.0	3.0
HONOLULU	-1.7	4.9	4.0	3.0	3.0	3.0
LAS VEGAS	3.5	5.4	5.0	4.0	3.0	3.0
LOS ANGELES	7.6	4.4	4.0	3.5	3.0	3.0
NEW YORK	3.3	4.5	5.0	4.0	4.0	4.0
PHOENIX	4.3	6.7	5.0	4.0	3.0	3.0
SEATTLE	5.1	6.5	5.0	4.0	3.0	3.0
TORONTO	1.1	9.5	6.0	2.3	2.3	2.3
WASHINGTON DC	3.2	6.5	5.0	4.0	3.0	3.0
ASIA @ Q4 2019						
BEIJING	7.7	3.0	2.0	3.0	3.0	2.0
CHENGDU	2.0	6.1	3.0	3.0	3.0	3.0
GUANGZHOU	2.5	5.0	0.0	1.0	2.0	2.0
HONG KONG	0.0	-4.7	-3.9	-2.0	2.0	2.0
MACAU	2.0	-4.1	-3.9	-2.0	2.0	2.0
SEOUL	2.5	4.4	1.7	1.7	1.5	0.3
SHANGHAI	7.0	3.5	0.0	2.0	2.0	3.0
SHENZHEN	2.0	5.0	3.0	3.0	3.0	3.0
SINGAPORE	-1.5	1.8	0.2	3.5	6.5	3.0
EUROPE @ Q4 2019						
AMSTERDAM	NP	5.8	3.1	0.0	-3.5	NP
BIRMINGHAM	2.8	2.5	2.3	3.3	4.0	4.0
BRISTOL	2.5	3.0	2.4	2.6	3.2	3.8
BUDAPEST	9.5	10.0	10.0	8.0	6.0	NP
LONDON	2.0	1.3	1.0	1.5	2.0	2.8
SHEFFIELD	2.0	1.2	2.0	2.6	3.0	3.6
MANCHESTER	2.0	1.0	2.0	2.5	3.5	3.5
MOSCOW	1.0	1.5	5.0	2.0	NP	NP
OSLO	NP	3.5	3.5	3.5	3.5	3.5
MIDDLE EAST @ Q4 2019						
ABU DHABI	-3.0	3.2	2.2	3.0	3.5	3.0
DOHA	6.0	7.0	7.2	NP	NP	NP
DUBAI	3.5	3.0	2.2	3.0	3.5	3.0
RIYADH	5.0	5.0	3.1	2.4	3.0	3.5
OCEANIA @ Q4 2019						
ADELAIDE	3.1	3.5	3.9	4.0	4.5	4.5
AUCKLAND	8.0	6.0	3.5	3.0	3.0	2.5
BRISBANE	3.0	1.0	2.0	3.0	4.1	4.1
CANBERRA	2.8	3.5	3.5	3.0	3.0	3.0
CHRISTCHURCH	3.0	3.0	2.0	2.0	2.0	2.0
DARWIN	0.8	0.5	0.8	1.2	1.8	2.5
GOLD COAST	2.5	2.0	1.5	2.5	3.0	3.0
MELBOURNE	3.0	4.0	3.8	3.5	3.4	3.4
PERTH	0.0	1.0	1.5	2.7	3.0	3.0
SYDNEY	4.3	4.9	4.1	4.0	3.8	3.5
TOWNSVILLE	4.0	3.0	3.0	3.0	3.0	3.0
WELLINGTON	5.3	6.0	3.0	3.0	3.0	3.0

NP: Not published

AUSTRALIAN CONSTRUCTION

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AUSTRALIAN CONSTRUCTION BUILDING COST RANGES

CONSTRUCTION RATES

The following range of current building costs could be expected should tenders be called in the respective city. Items specifically included are those normally contained in a Building Contract.

Specific exclusions:

- Goods & Services Tax (GST)
- Land
- Legal and professional fees
- Loose furniture and fittings
- Site works and drainage
- Subdivisional partitions in office buildings
- Telstra and private telephone systems (PABX)
- Tenancy works

All costs current as at Fourth Quarter 2019.

CITY	ADELAIDE		BRISBANE	
	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
COST RANGE PER GROSS FLOOR AREA				
OFFICE BUILDINGS				
Prestige, CBD				
10 TO 25 STOREYS (75-80% EFFICIENCY)	2,650	3,400	3,000	3,900
25 TO 40 STOREYS (70-75% EFFICIENCY)	2,950	3,800	3,200	4,100
40 TO 55 STOREYS (68-73% EFFICIENCY)	-	-	3,400	4,400
Investment, CBD				
UP TO 10 STOREYS (81-85% EFFICIENCY)	2,200	2,650	2,500	3,000
10 TO 25 STOREYS (76-81% EFFICIENCY)	2,350	2,950	2,800	3,300
25 TO 40 STOREYS (71-76% EFFICIENCY)	2,550	3,150	2,900	3,800
Investment, other than CBD				
WALK UP (83-87% EFFICIENCY)	1,800	2,300	2,000	2,400
UP TO 10 STOREYS (82-86% EFFICIENCY)	2,050	2,550	2,200	2,600
10 TO 25 STOREYS (77-82% EFFICIENCY)	-	-	2,400	2,800
HOTELS				
Multi-Storey (ex FF&E)				
FIVE STAR	3,700	4,550	4,200	5,700
FOUR STAR	3,150	4,250	3,600	4,700
THREE STAR	2,700	3,550	3,000	4,200
CAR PARK				
OPEN DECK MULTI-STOREY	680	980	1,000	1,500
BASEMENT: CBD	1,340	1,960	1,700	2,200
BASEMENT: OTHER THAN CBD	930	1,760	1,100	1,800
UNDERCROFT: OTHER THAN CBD	580	880	700	900
INDUSTRIAL BUILDINGS				
6.00 M to underside of truss and 4,500 M² Gross Floor Area with:				
ZINCALUME METAL CLADDING	650	1,000	750	1,100
PRECAST CONCRETE CLADDING	750	1,100	850	1,200
Attached Airconditioned Offices				
200 M ²	1,560	2,150	2,000	2,600
400 M ²	1,560	2,150	2,000	2,400

NOTES

- i Car Parking costs have been excluded to arrive at the various building rates.
- ii Refer to Page 30 for definitions.
- iii The percentages shown against each building may be used to calculate the rate per Net Lettable Area.

Example: the NLA rate for a Premium Office CBD 10 to 25 Storeys would be calculated
 NLA rate = \$/M² × efficiency percentage.

Refer to www.rlbintelligence.com for updates.

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
3,500	5,100	3,100	4,000	3,250	3,750	3,000	4,000	3,750	4,300
3,750	5,500	3,250	4,150	3,750	4,100	3,300	4,400	4,350	5,000
-	-	-	-	3,850	4,350	3,500	4,700	4,850	5,500
2,800	4,000	2,400	3,450	2,500	2,950	2,400	3,300	2,850	3,300
2,900	4,150	2,550	3,800	2,850	3,250	2,500	3,500	3,350	3,750
2,950	4,300	-	-	2,900	3,450	2,600	3,750	3,450	4,050
1,500	2,500	2,200	2,800	1,820	2,350	1,800	2,600	2,250	2,650
2,150	2,950	2,300	3,350	2,050	2,750	2,000	2,800	2,450	3,150
2,250	3,500	2,550	3,450	2,350	3,050	2,200	3,000	2,850	3,600
4,250	6,400	3,600	4,450	4,150	5,600	3,600	4,800	4,650	6,300
3,700	6,000	3,350	4,050	3,750	4,800	3,100	4,000	3,950	5,500
3,100	5,300	2,850	3,550	2,950	3,800	2,600	3,600	3,350	4,200
790	1,320	750	1,260	810	1,280	650	1,000	810	1,240
1,060	1,840	1,180	1,540	1,280	1,680	1,800	3,100	1,180	1,900
1,040	1,840	1,040	1,520	1,220	1,580	1,400	2,800	1,160	1,740
790	1,200	720	1,020	810	970	700	1,100	-	-
740	920	800	1,400	660	1,120	550	800	770	970
850	1,400	840	1,420	760	1,220	630	1,060	840	1,240
1,740	2,750	1,700	2,400	1,580	2,050	1,400	1,900	2,100	2,750
1,660	2,650	1,700	2,400	1,520	1,980	1,360	1,860	2,150	2,950

AUSTRALIAN CONSTRUCTION BUILDING COST RANGES

All costs current as at Fourth Quarter 2019.

CITY	ADELAIDE		BRISBANE	
COST RANGE PER GROSS FLOOR AREA	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
AGED CARE				
SINGLE STOREY FACILITY	2,150	2,700	2,400	3,000
PRIVATE HOSPITALS				
Low Rise Hospital				
45-60 M ² GFA/BED	3,700	5,700	4,500	5,800
55-80 M ² GFA/BED WITH MAJOR OPERATING THEATRE	4,000	6,000	5,000	6,500
CINEMAS				
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	2,750	3,650	3,500	4,500
REGIONAL SHOPPING CENTRES				
DEPARTMENT STORE	1,560	2,400	1,600	2,100
SUPERMARKET/VARIETY STORE	1,440	1,760	1,600	2,000
DISCOUNT DEPARTMENT STORE	1,200	1,460	1,400	2,000
MALLS	1,580	3,000	2,200	3,600
SPECIALTY SHOPS	1,000	1,680	1,400	1,800
SMALL SHOPS AND SHOWROOMS				
SMALL SHOPS & SHOWROOMS	1,300	1,840	1,400	2,000
RESIDENTIAL				
SINGLE & DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	1,580	3,450	1,800	4,000
RESIDENTIAL UNITS				
WALK-UP 85 TO 120 M ² /UNIT	1,660	2,750	1,800	3,400
TOWNHOUSES 90 TO 120 M ² /UNIT	1,740	2,650	1,500	3,500
MULTI-STOREY UNITS				
Up to 10 storeys with lift				
UNITS 60-70 M ²	2,350	3,450	2,400	3,500
UNITS 90-120 M ²	2,250	3,350	2,400	3,500
Over 10 and up to 20 storeys				
UNITS 60-70 M ²	2,450	3,550	2,800	3,600
UNITS 90-120 M ²	2,400	3,450	2,800	3,600
Over 20 and up to 40 storeys				
UNITS 60-70 M ²	2,650	3,450	3,000	3,800
UNITS 90-120 M ²	2,600	3,400	3,000	3,700
Over 40 and up to 80 storeys				
UNITS 60-70 M ²	-	-	3,300	4,400
UNITS 90-120 M ²	-	-	3,200	4,200

Building Costs include Building Works and Building Services

Refer to www.rlbintelligence.com for updates.

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
2,100	3,500	2,400	3,550	1,920	3,100	1,760	2,800	2,850	3,650
4,400	7,300	3,900	4,650	2,900	3,450	3,400	4,300	3,000	3,800
4,800	8,000	4,700	5,700	3,200	4,400	3,600	4,500	3,750	5,000
3,050	4,200	2,750	3,500	2,500	3,300	2,200	2,700	3,450	4,850
2,450	3,200	1,720	2,450	2,100	2,500	1,900	2,600	1,600	2,350
1,480	2,450	1,820	2,500	1,300	1,940	1,200	1,760	1,560	3,050
1,340	1,920	1,660	2,300	1,340	1,720	1,200	1,700	1,360	1,680
2,400	4,050	1,760	2,650	2,200	3,200	1,900	2,900	2,100	4,400
1,240	2,050	1,460	2,100	1,240	1,720	1,000	1,500	1,780	2,750
1,260	2,550	1,260	2,150	1,240	1,680	1,000	2,500	1,600	2,100
1,700	3,400	1,800	2,800	1,720	3,300	1,400	2,700	1,780	5,100
1,800	4,400	1,980	2,400	1,820	3,300	1,460	2,900	-	-
1,800	4,300	1,980	2,400	1,820	3,050	1,460	2,900	-	-
3,000	4,500	2,050	2,450	2,500	3,150	2,000	3,000	3,000	3,900
2,950	4,400	2,050	2,400	2,500	3,200	1,900	2,900	2,750	3,600
3,250	4,800	2,100	2,550	2,800	3,600	2,300	3,300	3,150	4,200
3,200	4,800	2,050	2,500	2,800	3,650	2,200	3,200	3,000	4,000
3,750	5,200	2,350	2,650	3,250	3,900	2,800	3,600	4,100	5,200
3,650	4,950	2,300	2,600	3,250	4,000	2,700	3,500	3,850	4,650
-	-	-	-	3,650	4,300	3,300	4,100	4,700	5,900
-	-	-	-	3,650	4,400	3,200	4,000	4,550	5,700

AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2019.

COST RANGE PER GROSS FLOOR AREA	ADELAIDE		BRISBANE	
	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
OFFICE BUILDINGS				
Prestige, CBD				
10 TO 25 STOREYS (75-80% EFFICIENCY)	748	1,122	820	1,199
25 TO 40 STOREYS (70-75% EFFICIENCY)	799	1,222	904	1,286
40 TO 55 STOREYS (68-73% EFFICIENCY)	-	-		
Investment, CBD				
UP TO 10 STOREYS (81-85% EFFICIENCY)	731	998	747	983
10 TO 25 STOREYS (76-81% EFFICIENCY)	733	1,047	803	1,053
25 TO 40 STOREYS (71-76% EFFICIENCY)	753	1,096	846	1,182
INVESTMENT, OTHER THAN CBD				
WALK UP (83-87% EFFICIENCY)	398	580	545	674
UP TO 10 STOREYS (82-86% EFFICIENCY)	551	778	684	953
10 TO 25 STOREYS (77-82% EFFICIENCY)	-	-	757	1,070
HOTELS				
Multi-Storey				
FIVE STAR	1,037	1,456	1,001	1,260
FOUR STAR	931	1,277	974	1,235
THREE STAR	878	1,071	931	1,187
CAR PARK				
OPEN DECK MULTI-STOREY	132	268	141	281
BASEMENT: CBD	214	422	241	423
BASEMENT: OTHER THAN CBD	213	422	241	423
UNDERCROFT: OTHER THAN CBD	105	118	80	109
INDUSTRIAL BUILDINGS				
6.00 M to underside of truss and 4,500 M² Gross Floor Area with:				
ZINCALUME METAL CLADDING	213	302	205	367
PRECAST CONCRETE CLADDING	213	345	205	367
Attached Airconditioned Offices				
200 SQ.M.	481	631	493	626
400 SQ.M.	474	624	493	626

BUILDING SERVICES COSTS INCLUDE:

- Building Management
- Electrical
- Fire Protection
- Hydraulic
- Mechanical
- Special Equipment
- Vertical Transport

Refer to page 34 to 37 for detailed services costs.

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
909	1,319	1,160	1,523	811	1,260	930	1,340	1,065	1,405
964	1,429	1,246	1,594	958	1,338	965	1,395	1,255	1,405
		-	-						
753	1,208	911	1,321	632	1,082	695	1,125	727	1,011
798	1,208	983	1,445	701	1,150	720	1,185	861	1,104
798	1,263	-	-	774	1,207	760	1,225	952	1,215
476	654	841	1,082	439	711	420	600	499	705
632	909	882	1,281	549	871	565	820	717	975
698	1,030	971	1,326	607	988	660	920	868	1,121
1,295	1,761	1,394	1,753	1,751	2,211	1,235	1,750	1,257	1,591
1,182	1,579	1,272	1,539	1,265	1,887	1,025	1,465	1,114	1,478
932	1,352	1,122	1,386	957	1,443	825	1,265	952	1,236
176	286	201	363	97	286	135	300	70	169
242	483	328	449	171	370	200	405	258	344
176	472	298	449	160	339	185	390	159	296
66	121	135	282	31	63	135	305	52	73
232	410	210	499	183	325	160	335	130	224
232	399	225	518	183	325	170	355	130	226
531	708	661	926	470	654	385	630	535	925
531	642	661	926	470	868	385	595	535	939

AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2019.

COST RANGE PER GROSS FLOOR AREA	ADELAIDE		BRISBANE	
	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
AGED CARE				
SINGLE STOREY FACILITY	430	699	518	828
PRIVATE HOSPITALS				
Low Rise Hospital				
45-60 M ² GFA/BED	1,234	1,500	943	1,686
55-80 M ² GFA/BED WITH MAJOR OPERATING THEATRE	1,447	1,924	1,427	2,153
CINEMAS				
GROUP COMPLEX, 2,000-4,000 SEATS. (WARM SHELL)	794	1,071	649	1,006
REGIONAL SHOPPING CENTRES				
DEPARTMENT STORE	447	719	529	830
SUPERMARKET/VARIETY STORE	433	674	521	771
DISCOUNT DEPARTMENT STORE	440	616	511	678
MALLS	527	799	603	907
SPECIALTY SHOPS	302	577	497	710
SMALL SHOPS AND SHOWROOMS				
SMALL SHOPS AND SHOWROOMS	411	642	356	672
RESIDENTIAL				
SINGLE & DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	252	554	265	582
RESIDENTIAL UNITS				
WALK-UP 85 TO 120 M ² /UNIT	212	480	253	502
TOWNHOUSES 90 TO 120 M ² /UNIT	215	488	253	493
MULTI-STOREY UNITS				
Up to 10 storeys with lift				
UNITS 60-70 M ²	476	749	464	886
UNITS 90-120 M ²	455	703	442	851
Over 10 and up to 20 storeys				
UNITS 60-70 M ²	482	811	562	883
UNITS 90-120 M ²	468	796	533	840
Over 20 and up to 40 storeys				
UNITS 60-70 M ²	527	913	639	1,010
UNITS 90-120 M ²	511	884	616	969
Over 40 and up to 80 storeys				
UNITS 60-70 M ²	-	-	859	1,141
UNITS 90-120 M ²	-	-	797	1,082

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
431	804	883	1,322	470	1,103	670	1,100	428	793
1,125	1,485	1,433	1,680	997	1,519	1,130	1,500	1,090	1,418
1,369	1,961	1,580	1,981	1,199	2,070	1,275	1,710	1,464	2,030
818	984	1,013	1,278	627	920	695	910	1,054	1,517
768	883	642	877	533	823	630	870	531	728
481	722	662	920	423	784	540	775	534	731
481	653	602	840	371	680	555	695	502	656
596	883	577	918	491	915	-	-	570	901
424	665	519	762	340	685	360	600	550	813
253	690	417	760	220	655	270	570	372	595
244	543	336	649	209	638	235	785	205	759
243	681	400	574	209	575	240	470	233	707
127	681	400	574	209	554	240	470	201	668
566	920	654	851	518	880	495	860	657	934
566	861	620	809	512	849	485	830	621	909
614	920	648	846	554	905	555	860	749	1,006
614	1,015	636	829	554	874	550	825	715	925
733	1,040	712	875	648	992	655	955	806	1,153
686	1,040	696	855	627	900	630	935	793	1,085
-	-	-	-	821	1,220	870	1,110	1,054	1,370
-	-	-	-	763	1,168	850	1,095	1,027	1,359

AUSTRALIAN CONSTRUCTION RLB TENDER PRICE INDEX

DATE	ADELAIDE		BRISBANE		CANBERRA	
	TPI	CPI	TPI	CPI	TPI	CPI
DEC-1980	35.8	29.0	36.2	30.6	30.2	29.6
DEC-1981	40.5	32.3	41.0	34.2	34.9	32.9
DEC-1982	45.7	35.8	46.2	37.8	40.7	36.9
DEC-1983	48.5	39.1	49.5	40.9	45.2	39.8
DEC-1984	51.1	40.4	51.6	42.4	47.9	41.1
DEC-1985	55.6	43.8	54.3	45.7	53.9	44.7
DEC-1986	59.7	47.9	56.5	49.8	59.3	48.6
DEC-1987	65.0	51.1	60.4	53.3	63.3	51.8
DEC-1988	70.1	54.6	65.4	57.0	68.5	55.4
DEC-1989	75.4	58.6	60.5	61.4	70.9	59.5
DEC-1990	79.6	63.1	55.2	65.2	73.7	63.5
DEC-1991	79.7	64.3	53.3	66.3	65.8	64.6
DEC-1992	78.7	65.4	55.2	66.9	62.6	65.3
DEC-1993	81.2	66.6	57.5	68.1	76.0	66.7
DEC-1994	83.5	68.6	62.3	70.3	78.1	68.2
DEC-1995	84.7	71.6	65.5	73.4	82.6	71.9
DEC-1996	86.1	72.5	68.4	74.6	84.1	72.7
DEC-1997	86.8	71.6	71.7	75.1	83.9	71.8
DEC-1998	87.1	73.0	75.6	76.0	85.5	72.8
DEC-1999	87.0	74.3	78.2	76.7	87.1	74.0
DEC-2000	88.2	78.3	78.3	81.4	92.5	78.6
DEC-2001	90.1	80.7	79.7	84.0	93.1	80.8
DEC-2002	94.6	83.7	87.5	86.5	97.5	83.4
DEC-2003	102.9	86.4	95.0	89.2	103.0	85.6
DEC-2004	112.4	88.6	106.8	91.4	110.4	87.6
DEC-2005	119.4	91.0	118.9	94.1	117.8	90.3
DEC-2006	126.2	93.9	129.3	97.3	125.0	93.2
DEC-2007	134.0	96.5	137.5	101.0	130.8	96.3
DEC-2008	142.5	100.0	127.1	105.4	134.9	99.9
DEC-2009	138.6	102.1	119.8	108.0	136.5	102.2
DEC-2010	142.5	104.7	119.0	111.3	141.0	104.4
DEC-2011	137.9	108.5	119.3	114.0	143.0	108.0
DEC-2012	138.1	110.8	119.3	116.5	142.1	109.9
DEC-2013	139.3	113.3	117.0	119.6	145.3	112.3
DEC-2014	140.1	115.2	123.0	122.0	147.5	113.6
DEC-2015	141.2	116.4	130.3	124.0	150.5	114.4
DEC-2016	143.7	117.9	139.7	126.0	154.3	116.4
DEC-2017	148.1	120.7	143.9	128.4	158.6	119.0
MAR-2018	149.3	121.1	144.2	128.5	160.0	120.0
JUN-2018	150.3	121.6	144.6	129.1	161.3	120.4
SEP-2018	151.6	122.0	144.9	129.6	162.7	121.2
DEC-2018	153.3	122.6	145.3	130.3	164.1	122.1
MAR-2019	154.7	122.7	146.0	130.4	165.6	122.2
JUN-2019	156.2	123.4	146.7	131.2	167.0	122.5
SEP-2019	157.7	124.2	147.5	132.0	168.4	123.4
DEC-2019	159.2		148.2		169.9	

The following indices reflect the change in tender levels for buildings, other than housing, as compared with the consumer price index. The Tender Price Index figures take into account labour and material cost changes and market conditions.

DARWIN		MELBOURNE		PERTH		SYDNEY	
TPI	CPI	TPI	CPI	TPI	CPI	TPI	CPI
		35.5	33.9	38.4	36.3	37.3	34.7
		39.6	37.8	43.9	40.8	43.6	38.6
		44.4	41.7	51.3	44.8	46.9	43.2
		47.3	45.7	53.4	48.6	49.7	46.4
		52.0	46.8	56.0	49.5	52.6	47.5
		58.5	50.7	65.8	53.6	60.6	51.5
		63.4	55.9	72.6	59.1	67.2	56.5
		69.3	59.8	76.5	63.2	74.1	60.5
		74.9	63.9	81.7	68.0	80.6	66.1
		81.9	69.2	89.5	73.3	86.8	71.0
		82.6	74.4	92.1	78.8	84.1	75.5
		76.7	75.6	91.2	78.6	75.1	76.6
		74.8	75.5	91.2	78.6	71.4	76.9
		77.0	77.4	91.2	80.5	72.5	77.9
		78.3	79.0	92.1	82.2	75.4	80.0
		79.8	82.7	93.0	86.2	79.1	84.7
		82.0	83.7	95.0	87.8	83.8	86.1
		84.1	83.7	97.2	87.1	89.7	86.0
		86.8	84.4	99.3	89.1	96.1	87.6
88.0		89.4	86.1	101.9	90.9	100.0	89.3
89.8		93.8	91.3	102.6	95.5	99.9	94.6
91.8		96.7	94.1	100.6	98.3	100.9	97.8
93.7	93.7	104.6	97.0	103.8	101.1	103.9	100.5
101.1	95.2	110.1	99.2	112.1	103.1	110.1	102.8
113.2	97.1	114.7	101.5	124.5	106.2	117.8	105.5
121.8	100.0	118.4	104.2	135.0	110.4	123.1	108.0
132.7	105.0	122.2	107.2	147.2	115.2	128.7	111.5
144.7	108.0	128.0	110.6	163.4	118.8	133.2	114.2
159.1	112.0	129.6	114.1	159.9	123.2	139.2	118.4
164.7	115.4	131.8	116.2	150.0	125.7	139.2	121.0
168.0	118.1	137.4	119.8	147.6	129.0	140.6	123.9
148.8	121.0	141.4	123.5	149.5	132.8	143.7	127.9
151.8	124.1	141.4	126.1	146.1	135.6	145.4	131.1
156.4	129.5	141.8	129.5	147.7	139.6	148.3	134.6
159.1	132.0	143.9	131.4	148.9	142.3	152.8	136.9
160.7	132.6	146.8	133.9	150.0	144.5	159.7	139.5
162.3	132.1	149.7	135.8	150.0	145.0	167.3	142.1
163.6	133.4	154.2	138.8	150.0	146.2	174.4	145.2
163.8	133.4	155.7	140.0	150.3	146.3	176.5	145.6
164.0	133.9	157.3	140.7	150.7	146.6	178.7	146.1
164.2	134.8	158.8	140.9	151.1	147.4	180.8	147.0
164.4	135.0	160.4	141.6	151.5	148.1	183.0	147.6
164.7	133.9	161.9	141.8	152.0	147.9	184.8	147.5
165.1	135.0	163.4	142.5	152.6	149.0	186.7	148.5
165.4	135.4	164.9	143.2	153.2	149.8	188.6	149.3
165.7		166.4		153.7		190.5	

AUSTRALIAN CONSTRUCTION DEFINITIONS

CBD

Central Business District.

BUILDING WORKS

Building works include substructure, structure, finishings, fittings, preliminary items, attendance and builder's work in connection with services.

BUILDING SERVICES

Building services include special equipment, hydraulics, fire protection, mechanical, vertical transport, building management and electrical services.

OFFICE BUILDINGS

Prestige offices are based on landmark office buildings located in major CBD Office Markets, which are pacesetters in establishing rents.

Investment offices are based on high quality buildings which are built for the middle range of the rental market. (used as generic descriptions for Building Cost Ranges on page 20).

HOTELS

RATING	GFA PER ROOM		
	TOTAL	ACCOMMODATION	PUBLIC SPACE
FIVE STAR	85-120 M ²	45-65 M ²	40-55 M ²
FOUR STAR	60-85 M ²	35-45 M ²	25-40 M ²
THREE STAR	40-65 M ²	30-40 M ²	10-25 M ²

Note: Public space includes service areas.

CAR PARKS

Open Deck Multi-storey – minimal external walling.

Basement – CBD locations incur higher penalties for restricted sites and perimeter conditions.

INDUSTRIAL BUILDINGS

Quality reflects a simplified type of construction suitable for light industry.

Exclusions: hardstandings, roadworks and special equipment.

AGED CARE

Single storey domestic construction with no operating theatre capacity, minimal specialist and service areas. 35-45 M² GFA/bed (150 beds).

HOSPITAL

Low rise hospital (45–60 M² GFA/Bed) - Minimal operating theatre capacity, specialist and service areas.

Low rise hospital (55–80 M² GFA/Bed) - Major operating theatre capacity including extensive specialist and service areas.

Exclusions: Loose furniture, special medical equipment.

CINEMAS

Multiplex Group Complex (warm shell).

2,000–4,000 seats.

Exclusions: Projection equipment, seating.

SHOPPING CENTRES

Department Store

Partially finished suspended ceilings and painted walls.

Exclusions: Floor finishes, shop fittings, etc.

Supermarket/Variety Store

Fully finished and serviced space.

Exclusions: Cool rooms, shop fittings, refrigeration equipment, etc.

Malls

Fully finished and serviced space.

Specialty Shops

Partially finished with ceilings, unpainted walls and power to perimeter point.

Exclusions: Floor finishes and shop fittings.

SMALL SHOPS AND SHOWROOMS

Exclusions: Floor finishes, plumbing (other than hot and cold water to sink fittings in each shop) and shop fittings.

RESIDENTIAL

Single Storey or 1-3 Storey

Units reflect medium quality accommodation.

Multi-Storey

Units reflect medium to luxury quality and air conditioned accommodation up to 80 storeys in height.

Note: the ratio of kitchen, laundry and bathroom areas to living areas considerably affects the cost range.

Range given is significantly affected by the height and configuration of the building.

Exclusions: Loose furniture, special fittings, washing machines, dryers and refrigerators.

RIDERS DIGEST

48TH EDITION

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WSP Structures

Reinforcement Ratios.

Australian Bureau of Statistics

Construction and Building Data and CPI information.

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PERTH CONSTRUCTION BUILDING SERVICES COSTS

All costs current as at Fourth Quarter 2019.

COST RANGE PER GROSS FLOOR AREA	SPECIAL EQUIPMENT		HYDRAULIC	
	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
OFFICE BUILDINGS				
Prestige, CBD				
10 TO 25 STOREYS (75-80% EFFICIENCY)	20	40	85	115
25 TO 40 STOREYS (70-75% EFFICIENCY)	10	20	85	115
40 TO 55 STOREYS (68-73% EFFICIENCY)	10	20	90	115
Investment, CBD				
UP TO 10 STOREYS (81-85% EFFICIENCY)	-	-	75	95
10 TO 25 STOREYS (76-81% EFFICIENCY)	10	20	75	95
25 TO 40 STOREYS (71-76% EFFICIENCY)	10	20	85	105
Investment, other than CBD				
1 TO 3 STOREYS (81-85% EFFICIENCY)	-	-	60	80
UP TO 10 STOREYS (82-86% EFFICIENCY)	-	-	60	80
10 TO 25 STOREYS (77-82% EFFICIENCY)	-	-	85	105
HOTELS				
Multi-Storey				
FIVE STAR	40	70	235	335
FOUR STAR	40	75	225	330
THREE STAR	30	55	215	320
CAR PARK				
OPEN DECK MULTI-STOREY	-	-	20	30
BASEMENT: CBD	-	-	35	45
BASEMENT: OTHER THAN CBD	-	-	25	35
UNDERCROFT: OTHER THAN CBD	-	-	20	30
INDUSTRIAL BUILDINGS				
6.00 M to underside of truss and 4,500 M² Gross Floor Area with:				
ZINCALUME METAL CLADDING	-	-	40	65
PRECAST CONCRETE CLADDING	-	-	50	85
Attached Air Conditioned Offices				
200 M ²	-	-	45	85
400 M ²	-	-	45	65

SPECIAL EQUIPMENT

Special Equipment includes Building Maintenance Units, Medical Gases, Chutes, Incinerators and Compactors where appropriate.

HYDRAULIC

Hydraulic Services include Cold Water Supply, Soil, Waste and Ventilation Plumbing and Associated Sanitary Fittings and Faucets where appropriate.

FIRE		MECH.		VERTICAL TRANSPORT		BUILDING MGT.		ELECTRICAL		TOTAL	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
70	80	340	560	140	170	60	100	215	275	930	1,340
70	85	340	590	190	205	55	100	215	280	965	1,395
70	85	340	600	195	225	60	105	225	320	990	1,470
65	80	260	530	120	130	40	70	135	220	695	1,125
65	85	280	510	120	180	30	45	140	250	720	1,185
60	85	275	510	160	195	25	50	145	260	760	1,225
55	80	200	300	-	-	-	-	105	140	420	600
55	80	210	330	90	120	25	40	125	170	565	820
55	80	240	360	105	140	25	55	150	180	660	920
60	90	415	560	150	215	55	100	280	380	1,235	1,750
60	95	340	435	140	195	40	85	180	250	1,025	1,465
60	95	260	360	105	130	40	85	115	220	825	1,265
45	55	-	45	30	85	5	30	35	55	135	300
45	60	40	105	30	85	15	35	35	75	200	405
45	55	35	105	30	85	15	35	35	75	185	390
45	55	-	50	30	85	5	30	35	55	135	305
45	85	30	65	-	-	-	25	45	95	160	335
45	85	30	65	-	-	-	25	45	95	170	355
45	85	180	280	-	-	10	40	105	140	385	630
45	85	180	280	-	-	10	35	105	130	385	595

FIRE PROTECTION

Fire Services include Detectors, Warden Communication, Sprinklers, Hydrants, Hose Reels and Extinguishers.

MECHANICAL

Mechanical Services include Air Conditioning, Ventilation, Heating and Domestic Hot Water where appropriate.

PERTH CONSTRUCTION BUILDING SERVICES COSTS

COST RANGE PER GROSS FLOOR AREA	SPECIAL EQUIPMENT		HYDRAULIC	
	\$/M ²		\$/M ²	
	LOW	HIGH	LOW	HIGH
AGED CARE				
SINGLE STOREY FACILITY	-	-	170	235
PRIVATE HOSPITALS				
Low Rise Hospital				
45-60 M ² GFA/BED	85	130	140	190
55-80 M ² GFA/BED WITH MAJOR OPERATING THEATRE	115	150	170	205
CINEMAS				
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	-	-	55	85
REGIONAL SHOPPING CENTRES				
DEPARTMENT STORE	30	40	55	85
SUPERMARKET/VARIETY STORE	40	45	50	80
DISCOUNT DEPARTMENT STORE	40	45	55	70
MALLS	-	-	-	-
SPECIALTY SHOPS	-	-	40	70
SMALL SHOPS AND SHOWROOMS				
SMALL SHOPS & SHOWROOMS	-	-	75	90
RESIDENTIAL				
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	-	25	85	150
RESIDENTIAL UNITS				
WALK-UP 85 TO 120 M ² /UNIT	-	-	85	160
TOWNHOUSES 90 TO 120 M ² /UNIT	-	-	85	160
MULTI-STOREY UNITS				
Up to 10 storeys with lift				
UNITS 60-70 M ²	5	35	180	225
UNITS 90-120 M ²	5	35	170	225
Over 10 and up to 20 storeys				
UNITS 60-70 M ²	5	35	175	225
UNITS 90-120 M ²	5	35	175	220
Over 20 and up to 40 storeys				
UNITS 60-70 M ²	5	25	205	220
UNITS 90-120 M ²	5	25	200	225
Over 40 and up to 80 storeys				
UNITS 60-70 M ²	5	20	220	215
UNITS 90-120 M ²	5	20	220	215

VERTICAL TRANSPORT

Transport Services include Lifts, Escalators, Travelators, Dumbwaiters, etc. where appropriate.

BUILDING MANAGEMENT

Building Management Services include Communications, Security and Building Automation Systems where appropriate.

FIRE		MECH.		VERTICAL TRANSPORT		BUILDING MGT.		ELECTRICAL		TOTAL	
\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²		\$/M ²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
60	90	230	380	-	-	20	45	190	350	670	1,100
60	90	510	580	40	70	40	60	255	380	1,130	1,500
60	90	550	650	55	85	70	80	255	450	1,275	1,710
70	90	450	520	-	-	15	35	105	180	695	910
60	70	260	320	-	70	25	40	200	245	630	870
55	70	250	350	-	-	25	40	120	190	540	775
55	70	250	300	-	-	25	40	130	170	555	695
-	-	-	-	-	-	-	-	-	-	-	-
55	75	200	305	-	-	-	25	65	125	360	600
55	75	75	285	-	-	-	-	65	120	270	570
5	10	75	180	-	250	-	20	70	150	235	785
5	10	75	165	-	-	-	20	75	115	240	470
5	10	75	165	-	-	-	20	75	115	240	470
60	80	100	290	20	45	10	25	120	160	495	860
60	80	100	270	20	45	10	25	120	150	485	830
60	80	160	260	30	40	10	25	115	195	555	860
60	80	155	245	30	40	10	25	115	180	550	825
65	90	195	300	50	85	10	25	125	210	655	955
65	90	180	295	50	85	10	25	120	190	630	935
70	95	275	360	130	180	10	25	160	215	870	1,110
70	95	265	350	125	185	10	25	155	205	850	1,095

ELECTRICAL

Electrical Services include the provision of Lighting and Power to occupied areas where appropriate.

PERTH CONSTRUCTION UNIT COSTS

ITEM	CONSTRUCTION COST RANGE		PER
	LOW	HIGH	
HOTELS			
Multi-Storey (excluding basements)			
FIVE STAR	330,000	490,000	BEDROOM
FOUR STAR	270,000	350,000	BEDROOM
THREE STAR	160,000	240,000	BEDROOM
CAR PARKS			
Based on 30 M ² per car			
OPEN DECK MULTI-STOREY	20,000	35,000	CAR
BASEMEN - CBD	60,000	110,000	CAR
BASEMENT - OTHER THAN CBD	50,000	100,000	CAR
UNDERCROFT - OTHER THAN CBD	20,000	37,000	CAR
AGED CARE			
FACILITY	135,000	185,000	BEDROOM
PRIVATE HOSPITALS			
Low Rise Hospital			
45-60 M ² GFA/BED	205,000	260,000	BED
55-80 M ² GFA/BED	290,000	350,000	BED
CINEMAS			
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	7,000	10,000	SEAT
HOUSING			
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT) - 325 M ²	455,000	900,000	HOUSE
RESIDENTIAL UNITS (EXCL CARPARK/SITE WORKS)			
WALK-UP UNITS 85-120 M ² /UNIT	130,000	320,000	UNIT
TOWNHOUSES 90-120 M ² /UNIT	130,000	320,000	UNIT
MULTI-STOREY RESIDENTIAL UNITS			
Up to 10 storeys with lift			
UNITS 60-70 M ²	170,000	285,000	UNIT
UNITS 90-120 M ²	250,000	470,000	UNIT
Over 10 and up to 20 storeys			
UNITS 60-70 M ²	195,000	310,000	UNIT
UNITS 90-120 M ²	270,000	520,000	UNIT
Over 20 and up to 40 storeys			
UNITS 60-70 M ²	235,000	340,000	UNIT
UNITS 90-120 M ²	330,000	570,000	UNIT
Over 40 and up to 80 storeys			
UNITS 60-70 M ²	280,000	405,000	UNIT
UNITS 90-120 M ²	400,000	670,000	UNIT

PERTH CONSTRUCTION SITEWORKS COSTS

LANDSCAPING

	LOW	HIGH	PER
LIGHT LANDSCAPING TO LARGE AREAS WITH MINIMAL PLANTING AND SITE FORMATION BUT EXCLUDING TOPSOIL AND GRASSING.	33,000	47,000	HECTARE
DENSE LANDSCAPING AROUND BUILDINGS INCLUDING SHRUBS, PLANTS, TOPSOIL AND GRASSING.	65	120	M ²
GRASSING ONLY TO LARGE AREAS INCLUDING TOPSOIL, SOWING AND TREATING.	20	30	M ²

CAR PARKS - ON GROUND

Based on 30 M² overall area per car with asphalt paving including sub base and sealing.

	LOW	HIGH	PER
LIGHT DUTY PAVING.	1,060	1,300	CARSPACE
HEAVY DUTY PAVING TO FACTORY TYPE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, DRAINAGE AND KERB TREATMENT.	2,050	2,700	CARSPACE
LIGHT DUTY PAVING TO SHOPPING CENTRE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, AND INCLUDING DRAINAGE AND KERB TREATMENT.	1,800	3,000	CARSPACE

ROADS

Asphalt finish including kerb, channel and drainage.

	LOW	HIGH	PER
RESIDENTIAL ESTATE 6.80 METRES WIDE EXCLUDING FOOT PATH AND NATURE STRIP.	700	1,160	M
INDUSTRIAL ESTATE 10.4 METRES WIDE INCLUDING MINIMAL TO EXTENSIVE FORMATION.	1,100	1,860	M

PERTH CONSTRUCTION DEMOLITION COSTS

Demolition costs include grubbing up footings, sealing services, temporary shoring, supports, removal of demolished materials, rubbish and site debris.

Exclusions: work carried out outside normal working hours, credit value of demolished materials and restricted site conditions.

BUILDING TYPE	LOW	HIGH	PER
SINGLE STOREY TIMBER FRAMED HOUSE WITH TIMBER CLADDING AND TILED ROOF	35	50	M ²
SINGLE/DOUBLE STOREY BRICK HOUSE WITH TILED ROOF	45	55	M ²
SINGLE STOREY FACTORY/ WAREHOUSE WITH REINFORCED CONCRETE GROUND SLAB, TIMBER OR STEEL FRAMED WALLS			
• METAL CLAD	45	80	M ²
• BRICK CLAD	55	85	M ²
TWO STOREY OFFICE BUILDING WITH REINFORCED CONCRETE FRAME MASONRY CLADDING AND METAL ROOF	65	95	M ²
MULTI-STOREY OFFICE BUILDING UP TO 15 FLOORS WITH MASONRY CLADDING			
• REINFORCED CONCRETE	170	195	M ²
• STRUCTURAL STEEL	180	210	M ²
MULTI-STOREY OFFICE BUILDING UP TO 25 STOREYS, CONSTRUCTED OF STEEL FRAME WITH MASONRY CLADDING	190	220	M ²

HOTEL FURNITURE, FITTINGS & EQUIPMENT COSTS

The cost of hotel furniture, fittings and equipment (FF&E) varies within a wide range and is dependent on the quality of items provided. The following gives the expected cost ranges for different rating hotels. These costs include fitting out public areas.

	LOW	HIGH	PER
FIVE STAR RATING	40,000	80,000	BEDROOM
FOUR STAR RATING	25,000	40,000	BEDROOM
THREE STAR RATING	17,500	30,000	BEDROOM

PERTH CONSTRUCTION OFFICE FITOUT COSTS

The following costs, which include workstations, are an indication of those currently achievable for good quality office accommodation, inclusive of all loose and fixed furniture.

TYPE OF TENANCY	OPEN PLANNED		FULLY PARTITIONED		PER
	LOW	HIGH	LOW	HIGH	
INSURANCE OFFICES, GOVERNMENT DEPARTMENT	800	1,200	1,000	1,560	M ²
MAJOR COMPANY HEADQUARTERS	900	1,500	1,100	1,800	M ²
SOLICITORS, FINANCIERS	1,100	1,800	1,460	2,100	M ²
EXECUTIVE AREAS AND FRONT OF HOUSE	-	-	2,800	6,000	M ²
COMPUTER AREAS	2,100	4,500	-	-	M ²

Computer areas include access flooring and additional services costs but exclude computer equipment.

WORKSTATIONS

Fully self-contained workstation module size 1,800 x 1,800 MM including screens generally 1,220 MM high (managerial 1,620 MM high), desks, storage cupboards, shelving.

TYPE OF WORKSTATION	LOW	HIGH	PER
CALL CENTRE	1,260	3,200	EACH
SECRETARIAL	1,800	4,500	EACH
TECHNICAL STAFF	1,260	4,000	EACH
EXECUTIVE	3,500	7,500	EACH

REFURBISHMENT

Office

The following refurbishment costs include for demolition and removal of partitions and internal finishes, provide new floor, ceiling and wall finishes, but excluding fitting out and removal of asbestos and upgrading of building for GreenStar ratings. The lower end of the range indicates re-use and modification of existing specialist building services, while the upper end of the range indicates complete replacement of equipment and accessories.

	LOW	HIGH	PER
CBD OFFICES TYPICAL FLOOR	800	2,100	M ²
CBD OFFICES CORE UPGRADE (EXCLUDING LIFTS MODERNISATION)	600	1,000	M ²

PERTH CONSTRUCTION RECREATIONAL FACILITIES COSTS

BASKETBALL CENTRE

	LOW	HIGH	PER
CONSISTING OF BRICK WALLS, STEEL PORTAL FRAME AND PURLINS WITH METAL ROOF, TIMBER FLOOR TO PLAYING AREA, PUBLIC SEATING, PUBLIC TOILETS AND CHANGE ROOMS.	1,300	2,500	M ²

SWIMMING POOL CENTRES

	LOW	HIGH	PER
INCLUDING FOYER, KIOSK, OFFICE, LOCKERS, ADMINISTRATION OFFICES, CHANGE ROOMS.	1,500	2,700	M ²

SWIMMING POOLS

High quality fully tiled including drainage and filtration but excluding surrounding paving and enclosures.

	LOW	HIGH	PER
HALF OLYMPIC (25.0 X 12.5 M)	900,000	1,000,000	EACH
• EXTRA FOR HEATING	80,000	140,000	EACH
• EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	180,000	270,000	EACH
• EXTRA FOR WET DECK	50,000	80,000	EACH
OLYMPIC (50.0 X 21.5 M)	1,800,000	2,000,000	EACH
• EXTRA FOR HEATING	180,000	240,000	EACH
• EXTRA FOR FILTRATION AND DOSING PLANT	300,000	500,000	EACH
• EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	100,000	150,000	EACH

SMALL BOAT AND YACHT MARINA BERTHS

Floating pontoon walkways, serviced with power and water.

	LOW	HIGH	PER
DOUBLE LOADED BERTHS	20,000	35,000	BERTH
SINGLE LOADED BERTHS	35,000	55,000	BERTH
SUPER YACHTS	235,000	330,000	BERTH

PERTH CONSTRUCTION RECREATIONAL FACILITIES COSTS

TENNIS COURTS

Six courts with minimal site formation and including sub base playing surface, chainwire fence 3.60 M high and spoon drains.

	LOW	HIGH	PER
SYNTHETIC GRASS	46,500	56,000	COURT
RED POROUS (EN-TOUT-CAS)	29,000	37,000	COURT
SYNTHETIC ACRYLIC (FLEXIPAVE)	39,000	47,000	COURT
ASPHALT (5 MM)	30,000	38,500	COURT
PLEXICUSHION	80,000	90,000	COURT
CONCRETE	37,500	42,000	COURT
FLOODLIGHTING	35,000	50,000	COURT

GOLF COURSES

18 hole championship course including siteworks, finishing works, irrigation, grassing, landscaping, green keeping, plant and equipment, course furniture and groundstaff to practical completion but excluding mains water supply to course, roads, carparks and clubhouse. The following are indicative costs only.

	LOW	HIGH	PER
SANDY SOIL SITE, REQUIRING MINIMAL EXCAVATION AND SITE PREPARATION	7,250,000	11,500,000	COURSE
SITE REQUIRING ROCK EXCAVATION	11,250,000	14,000,000	COURSE
SWAMPY SITE REQUIRING DREDGING FOR LAKES, ETC. AND EXTENSIVE FILL	14,500,000	20,500,000	COURSE

PLAYING FIELDS

Soccer, rugby, australian rules, hockey or similar turfed areas with minimal site formation and including sub base, drainage and turfing.

	LOW	HIGH	PER
EXCLUDES SPRINKLERS	35	50	M ²

GRANDSTANDS

Prestige metropolitan grandstand with a high standard of finishes and facilities including bars, stores, meeting/change rooms, dining and kitchen area.

	LOW	HIGH	PER
GRANDSTAND	4,500	9,000	SEAT

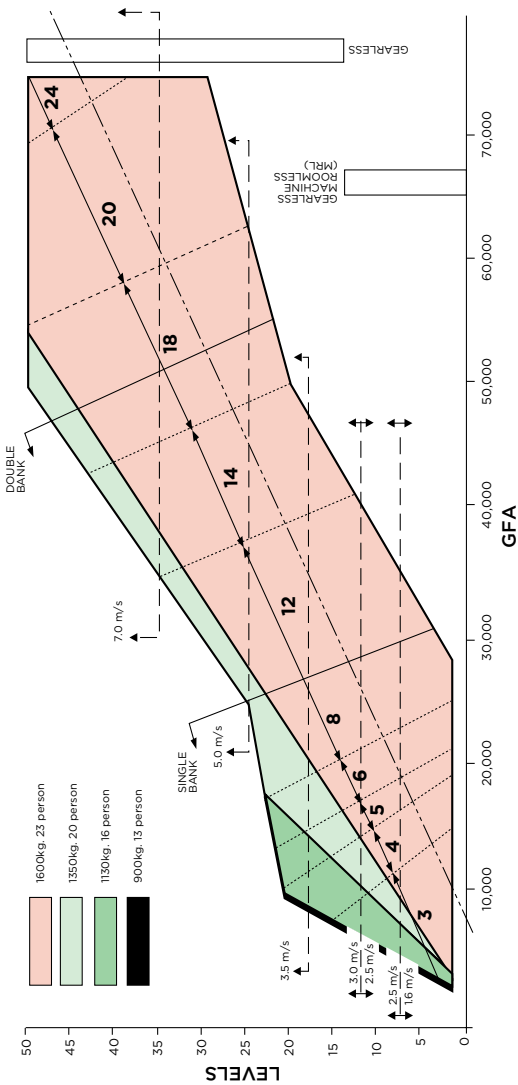
PERTH CONSTRUCTION VERTICAL TRANSPORTATION

LIFT SELECTION CHART

To calculate the number and type of lifts:

- Locate a point on the graph by using the GFA in M² shown on the bottom axis and number of levels on the left axis.
- The colour at the intersection point indicates the lift capacity, the horizontal lines the lift speed and the angled lines the number of lifts and the number of banks.
- By extending the horizontal line to the far right hand side, the type of lift required can be obtained.

Destination control is an optional lift control system in which passengers key-in the number of their destination floor at a button panel located in their current lift lobby area. Each floor lobby has a button panel. The lifts cars themselves do not have destination buttons and are designated to serve the floors as required. Destination control will generally boost the “Up peak” or morning performance of the lift system and will provide additional security provisions. The performance of the lift system during lunch times and at the end of the day is generally not improved with this control system. Lobby area may need to be increased.



PERTH CONSTRUCTION VERTICAL TRANSPORTATION

APPLICATION	LIFT TYPE	SPEED M/S	NO. OF FLOORS SERVED	BASE COST \$		ADDITIONAL FLOOR	EXPRESS FLOOR
				LOW	HIGH	RATE	RATE
OFFICE & RESIDENTIAL	ELECTRO-HYDRAULIC PASSENGER	0.5	2	70,000	90,000	5,000	2,000
	GEARLESS TO 17 PASSENGER	1	5	115,000	175,000	5,000	2,000
	GEARLESS UP TO 17 PASSENGER	1.6	8	130,000	195,000	5,000	2,000
	GEARLESS	2.5	10	295,000	355,000	10,000	4,000
	GEARLESS	3.5	10	620,000	730,000	9,000	12,000
	GEARLESS	4	10	670,000	830,000	9,000	12,000
	GEARLESS	5	10	770,000	940,000	9,000	12,000
	GEARLESS	6	10	860,000	1,050,000	9,000	12,000
	GEARLESS	7	10	950,000	1,150,000	9,000	12,500
	GEARLESS	8	10	1,030,000	1,230,000	9,000	12,500
HOSPITAL	GEARED UP TO 40 PASSENGER	2	5	600,000	690,000	15,000	5,000
	GEARLESS	2.5	10	780,000	940,000	15,000	5,000
LARGE GOODS	GEARLESS MRL TO 2,000 KG	1.6	10	345,000	480,000	15,000	5,000
	ELECTRO-HYDRAULIC TO 5,000 KG	0.5	2	445,000	510,000	15,000	5,000
	GEARLESS 2,500 KG	2.5	10	690,000	820,000	15,000	5,000
ESCALATORS	RISE 2,600 TO 5,000 MM	0.5	-	125,000	200,000	-	-
MOVING WALKS	2,500 TO 5,000 MM	0.5	-	135,000	270,000	-	-
SERVICE LIFT	BENCH HEIGHT UNIT	0.2	3	35,000	50,000	5,000	2,000
	LARGER UNIT	0.2	3	50,000	65,000	6,500	2,000
DISABLED PLATFORM LIFT	TO 1,000 MM	0.1	2	30,000	45,000	-	-
	1,000 TO 4,000 MM	0.1	2	45,000	60,000	-	-

Note: Destination Control Lift System option costs are not included in the above rates.

PERTH DEVELOPMENT

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PERTH DEVELOPMENT STAMP DUTIES

Transfer duty applies to dutiable transactions over dutiable property in Western Australia. Dutiable property is land in Western Australia, certain rights over dutiable property, Western Australian business assets and chattels in Western Australia.

The general rate applies to commercial property, rural property that is not also used as residential property, and vacant land which does not qualify for the residence rate.

Where an eligible dutiable transaction includes residential property and other dutiable property (e.g. business assets, commercial land) the entire transaction will be assessed at the residential rate.

Residential property includes primary residences, rental properties and vacant land where building commences within 5 years.

From January 1, 2019, a surcharge of 7% will apply on the dutiable value of residential property purchased by foreigners in Western Australia.

GENERAL RATE OF DUTY

VALUE OF TRANSACTION	RATE OF DUTY
\$0 TO \$80,000	\$1.90 PER \$100 OR PART THEREOF
\$80,001 TO \$100,000	\$1,520 + \$2.85 PER \$100 OR PART THEREOF ABOVE \$80,000
\$100,001 TO \$250,000	\$2,090 + \$3.80 PER \$100 OR PART THEREOF ABOVE \$100,000
\$250,001 TO \$500,000	\$7,790 + \$4.75 PER \$100 OR PART THEREOF ABOVE \$250,000
\$500,001 AND UPWARDS	\$19,665 + \$5.15 PER \$100 OR PART THEREOF ABOVE \$500,000

RESIDENTIAL RATE OF DUTY

VALUE OF TRANSACTION	RATE OF DUTY
\$0 TO \$120,000	\$1.90 PER \$100 OR PART THEREOF
\$120,001 TO \$150,000	\$2,280 + \$2.85 PER \$100 OR PART THEREOF ABOVE \$120,000
\$150,001 TO \$360,000	\$3,135 + \$3.80 PER \$100 OR PART THEREOF ABOVE \$150,000
\$360,001 TO \$725,000	\$11,115 + \$4.75 PER \$100 OR PART THEREOF ABOVE \$360,000
\$725,001 AND UPWARDS	\$28,453 + \$5.15 PER \$100 OR PART THEREOF ABOVE \$725,000

Refer to www.finance.wa.gov.au for more details.

PERTH DEVELOPMENT LAND TAX

Land Tax is an annual tax based on the ownership and usage of land owned at midnight on 30 June. It is levied in respect of the financial year immediately following that date.

In general, Land Tax is not levied on the property if it is the principal place of residence.

TOTAL UNIMPROVED VALUE OF LAND	2019/20 TAX RATES
\$0 TO \$300,000	NIL
\$300,001 TO \$420,000	FLAT RATE OF \$300
\$420,001 TO \$1,000,000	\$300 + 0.25 CENT FOR EACH \$1 IN EXCESS OF \$420,000
\$1,000,001 TO \$1,800,000	\$1,750 + 0.90 CENT FOR EACH \$1 IN EXCESS OF \$1,000,000
\$1,800,001 TO \$5,000,000	\$8,950 + 1.80 CENTS FOR EACH \$1 IN EXCESS OF \$1,800,000
\$5,000,001 TO \$11,000,000	\$66,550 + 2.00 CENTS FOR EACH \$1 IN EXCESS OF \$5,000,000
>\$11,000,000	\$186,550 + 2.67 CENTS FOR EACH \$1 IN EXCESS OF \$11,000,000

Refer to www.finance.wa.gov.au for more details.

PERTH DEVELOPMENT PLANNING – CAR PARKING

Provisions for all developments in the city are provided in the City of Perth City Planning Scheme No. 2, Version 7, April 2017 (CPS2). This Policy sets out the additional considerations for off-street parking and should be used in conjunction with other planning documents, in particular the City Development Design Guidelines.

Parking for residential development in the Residential Scheme use area are assessed in accordance with the Residential Design Codes and variations to the Residential Design Codes set out in CPS2. As a guide, the following table represents the key residential car parking requirements. Full details should be reviewed at <http://www.perth.wa.gov.au/planning-development/planning-schemes-and-policies/cps2-planning-policies> under 5.1 Parking Policies. Clause 7.1 Provision of parking.

	MINIMUM BAYS PER DWELLING	MAXIMUM BAYS PER DWELLING
CBD AREA	NIL	1.5
AREA TO THE WEST OF MITCHELL FREEWAY AND NORTH OF WELLINGTON ST.	1.0	2.0

The provision of parking for commercial development within the Perth Parking Management Area will be assessed in accordance with the Perth Parking Policy.

The amount of parking that can be provided relates directly to the surface area of the lot or lots on which development is situated and not the amount of development in square meters of proposed retail and office uses.

The intention is to create a sustainable limit to the number of tenant parking bays within the central area, regardless of the density of development. The amount of tenant parking that can be provided per hectare of development foot print depends on the category of the street where parked vehicles enter the street system. The four Street Categories are outlined in Figure 2 of the Tenant Parking Policy and street categories Section 5.3 of the Policy.

As a guide, the following table represents the key non-residential car parking requirements. Full details can be reviewed at <http://www.perth.wa.gov.au/planning-development/planning-schemes-and-policies/cps2-planning-policies>

MAXIMUM ALLOWANCE (BAYS PER 10,000 M ² OF LOT AREA)		
STREET PRIORITY	AT GRADE ACCESS	INTEGRATED ACCESS
CATEGORY 1	80 OR REPLACEMENT OF EXISTING LICENSED TENANT PARKING BAYS, WHICHEVER IS LESS	120 OR REPLACEMENT OF EXISTING LICENSED TENANT PARKING BAYS, WHICHEVER IS LESS
CATEGORY 2	100	150
CATEGORY 3	150	200
CATEGORY 4	200	250

PERTH DEVELOPMENT LAND VALUES

The values shown are indicative of current land values in Western Australia and may vary according to position, planning requirements etc.

LOCATION (COSTS PER M ²)	\$/M ²	
	LOW	HIGH
OFFICES		
CBD OFFICES	3,000	8,000
WEST PERTH	2,500	4,500
RETAIL (EG. 120 M²)		
HAY STREET MALL	15,000	25,000
CBD - SECONDARY AREAS	2,000	3,500
NEIGHBOURHOOD SHOPPING CENTRE	200	350
SUBURBAN STRIP SHOPPING	200	3,000
INDUSTRIAL (1HA TO 5HA)		
CORE - PRIME	375	525
NORTH - PRIME	300	475
SOUTH - PRIME	200	425
EAST - PRIME	200	425

Prepared in association with Savills.

PERTH DEVELOPMENT RENTAL RATES

The net rents indicated below show the change in levels since 1988. Allowance has been made for the effects of rental incentives, rent free periods etc.

	OFFICES		INDUSTRIAL
	CBD	WEST PERTH	PRIME
1988	156	140	65
1989	206	170	73
1990	224	189	76
1991	153	162	74
1992	77	59	60
1993	54	44	60
1994	81	49	55
1995	99	55	55
1996	133	125	56
1997	143	158	56
1998	149	176	58
1999	147	176	60
2000	163	182	62
2001	170	185	64
2002	186	193	64
2003	178	195	64
2004	171	186	65
2005	206	205	73
2006	296	277	83
2007	488	388	108
2008	735	575	123
2009	563	457	110
2010	460	360	98
2011	632	497	100
2012	708	527	113
2013	698	500	122
2014	698	500	122
2015	640	475	112
2016	458	353	112
2017	460	350	105
2018	460	350	102
2019	460	345	102

Prepared in association with Savills.

PERTH DEVELOPMENT OFFICE SECTOR DATA

PERTH CBD VACANCY RATES - Q2 2019

PCA GRADE	STOCK M ²	VACANCY M ²	VAC % JUN-19
PREMIUM	302.2	13.5	4.5
PCA GRADE A	780.0	126.8	16.3
SECONDARY	677.1	185.5	27.4
TOTAL	1,759.2	325.8	18.5

Source: PCA/Savills Research.

CURRENT CBD OFFICE DEVELOPMENT ACTIVITY

PROPERTY	PRECINCT	NLA M ²	STATUS	COMPLETION	TENANT
300 MURRAY ST	WEST CBD	3,000	UC	2019	REGUS
28 ST GEORGES TCE	EAST CBD	1,028	UC	2021	RSL
CNR MURRAY ST & MILIGAN ST	WEST CBD	10,000	PA	2022	
207 MURRY ST (CARILLON)	MID CBD	20,000	PA	2022	
CHEVRON HQ, LOTS 7 & 8, ELIZABETH QUAY	MID CBD	52,355	PA	2023	
ESPLANADE BUSPORT, 1 & 21 MOUNTS BAY RD	WEST CBD	18,000	PA	2023	

EP: Early Planning PA: Plans Approved

Source: Cordell/Savills Research.

PERTH DEVELOPMENT OFFICE SECTOR DATA

KEY MARKET INDICATORS - Q2 2019

PERTH CBD	PCA PREMIUM	
	LOW	HIGH
RENTAL - GROSS FACE	775	900
RENTAL - NET FACE	630	725
INCENTIVE LEVEL (%) NET	42	48
RENTAL - NET EFFECTIVE	320	390
OUTGOINGS - OPERATING	125	135
OUTGOINGS - STATUTORY	55	65
OUTGOINGS - TOTAL	165	185
TYPICAL LEASE TERM (YEARS)	5	10
YIELD - MARKET (% NET FACE RENTAL)	5.25	6.00
IRR (%)	6.50	7.00
CARS PERMANENT RESERVED (\$/PCM)	675	750
CARS PERMANENT (\$/PCM)	675	750
OFFICE CAPITAL VALUES	10,000	13,000

WEST PERTH	PCA GRADE A	
	LOW	HIGH
RENTAL - GROSS FACE	450	550
RENTAL - NET FACE	275	375
INCENTIVE LEVEL (%) GROSS	40	50
RENTAL - NET EFFECTIVE	150	205
OUTGOINGS - OPERATING	80	90
OUTGOINGS - STATUTORY	75	100
OUTGOINGS - TOTAL	155	190
TYPICAL LEASE TERM (YEARS)	3	5
YIELD - MARKET (% NET FACE RENTAL)	7.25	8.00
IRR (%)	7.75	8.25
CARS PERMANENT RESERVED (\$/PCM)	325	350
CARS PERMANENT (\$/PCM)	325	350
OFFICE COMPONENT CAPITAL VALUES	2,950	5,300

Source: Savills Research.

All rates are \$/M² unless otherwise noted.

PCA GRADE A		PCA GRADE B	
LOW	HIGH	LOW	HIGH
640	815	410	635
525	650	250	525
45	53	48	58
245	335	120	225
95	120	95	110
55	65	55	65
150	185	150	175
5	7	3	5
6.00	7.00	7.00	8.00
6.75	7.50	7.00	8.00
625	725	475	625
625	725	475	625
8,000	10,000	5,000	7,000

PCA GRADE B	
LOW	HIGH
365	415
225	275
40	50
125	150
50	55
75	100
125	155
3	5
8.25	9.25
7.75	9.25
300	325
300	325
2,400	3,300

PERTH DEVELOPMENT RETAIL SECTOR DATA

KEY MARKET INDICATORS - Q1 2019

PERTH ENCLOSED CENTRES	REGIONAL	
	LOW	HIGH
DEPARTMENT STORE RENT (GROSS)	220	250
DDS RENT (GROSS)	200	280
SUPERMARKET RENT (GROSS)	250	350
SPECIALTY TENANT RENT (GROSS)	1,100	2,000
MINI-MAJOR RENT	400	1,750
YIELD - MARKET (%)	4.50	5.75
IRR (%)	6.50	7.50
OUTGOINGS - OPERATING	100	135
OUTGOINGS - STATUTORY	60	65
OUTGOINGS - TOTAL	160	200
CAPITAL VALUES	5,500	11,000

RETAIL SALES ACTIVITY

PROPERTY SALES	TYPE
FLINDERS SQUARE	NEIGHBOURHOOD
THE VILLAGE AUSTRALIND & MARDO COMMERCIAL	NEIGHBOURHOOD
WOOLWORTHS AVELEY	NEIGHBOURHOOD
KELMSCOTT PLAZA	NEIGHBOURHOOD
WATTLE GROVE SC	NEIGHBOURHOOD
WOOLWORTHS SEACREST	NEIGHBOURHOOD
MOSMAN HEIGHTS SHOPPING CENTRE	NEIGHBOURHOOD
1419-1423 ALBANY HWY, CANNINGTON	LARGE FORMAT
1413-1417 ALBANY HWY, CANNINGTON	LARGE FORMAT
COLES ORANA	FREESTANDING
COLES VASSE	FREESTANDING
FIRST CHOICE LIQUOR, FALCON	FREESTANDING
22ST QUENTIN AVE, CLAREMONT	SHOPS

Source: Savills Research.

All rates are \$/M² unless otherwise noted.

SUB REGIONAL		NEIGHBOURHOOD		LARGE FORMAT	
LOW	HIGH	LOW	HIGH	LOW	HIGH
200	280				
220	350	220	350		
600	1,500	350	900	150	300
400	1,750	200	650		
5.25	7.00	5.75	8.50	5.50	9.50
7.00	8.00	6.75	9.00	7.75	11.50
75	120	40	80	35	55
35	40	30	50	20	35
110	160	70	130	55	90
2,700	6,500	2,500	5,500	1,100	5,500

PRICE (\$M)	DATE	GLA (M ²)	\$/M ²
39.50	AUG-18	6,052	6,527
39.43	OCT-18	9,321	4,230
26.93	AUG-18	5,040	5,342
19.00	APR-18	5,069	3,748
16.30	OCT-18	3,103	5,253
14.80	DEC-18	4,713	3,140
10.25	AUG-18	1,789	5,729
9.20	SEP-18	3,490	2,636
6.15	SEP-18	2,160	2,847
22.80	NOV-18	4,051	5,628
19.60	NOV-18	3,954	4,957
7.65	SEP-18	1,234	6,199
12.35	APR-18	775	15,395

PERTH DEVELOPMENT INDUSTRIAL SECTOR DATA

KEY MARKET INDICATORS - Q2 2019

PERTH CORE

	PRIME		SECONDARY	
	LOW	HIGH	LOW	HIGH
RENTAL NET FACE	75	105	55	85
INCENTIVES (%)	5	20	10	20
YIELD - MARKET (%)	5.75	7.00	7.00	8.50
IRR (%)	7.75	8.75	8.25	9.25
OUTGOINGS - TOTAL	20	35	15	30
CAPITAL VALUES	1,000	2,000	500	1,300
LAND VALUES 3,000-5,000 M ²	350 (LOW)		500 (HIGH)	
LAND VALUES 10,000-50,000 M ²	275 (LOW)		425 (HIGH)	
LAND VALUES 10 HA AND ABOVE	200 (LOW)		325 (HIGH)	

PERTH NORTH

	PRIME		SECONDARY	
	LOW	HIGH	LOW	HIGH
RENTAL NET FACE	70	100	55	80
INCENTIVES (%)	5	20	10	20
YIELD - MARKET (%)	6.00	7.75	7.00	9.00
IRR (%)	7.75	8.75	8.25	9.25
OUTGOINGS - TOTAL	20	30	15	30
CAPITAL VALUES	1,000	1,700	650	1,100
LAND VALUES 3,000-5,000 M ²	275 (LOW)		500 (HIGH)	
LAND VALUES 10,000-50,000 M ²	200 (LOW)		400 (HIGH)	
LAND VALUES 10 HA AND ABOVE	100 (LOW)		325 (HIGH)	

PERTH SOUTH

	PRIME		SECONDARY	
	LOW	HIGH	LOW	HIGH
RENTAL NET EFFECTIVE	60	95	45	80
INCENTIVES (%)	10	20	10	25
YIELD - MARKET (%)	7.00	8.50	7.50	9.75
IRR (%)	8.50	9.75	9.25	10.50
OUTGOINGS - TOTAL	15	30	15	30
CAPITAL VALUES	750	1,500	650	900
LAND VALUES 3,000-5,000 M ²	150 (LOW)		400 (HIGH)	
LAND VALUES 10,000-50,000M ²	125 (LOW)		300 (HIGH)	
LAND VALUES 10 HA AND ABOVE	100 (LOW)		200 (HIGH)	

Source: Savills Research.
All rates are \$/M² unless otherwise noted.

PERTH DEVELOPMENT CONSTRUCTION WORK DONE

ANNUAL VALUE OF CONSTRUCTION WORK DONE IN WESTERN AUSTRALIA

YEAR ENDING	RESIDENTIAL	NON-RESIDENTIAL	ENGINEERING	TOTAL CONSTRUCTION
JUN-1990	1,633	1,277	1,432	4,342
JUN-1991	1,217	947	1,422	3,585
JUN-1992	1,226	643	1,506	3,375
JUN-1993	1,589	722	1,541	3,852
JUN-1994	1,973	867	1,805	4,645
JUN-1995	2,171	782	1,572	4,525
JUN-1996	1,696	820	2,654	5,169
JUN-1997	1,682	1,063	2,684	5,429
JUN-1998	1,954	1,135	3,252	6,341
JUN-1999	2,178	986	3,305	6,469
JUN-2000	2,788	1,210	2,775	6,774
JUN-2001	2,331	1,069	2,257	5,657
JUN-2002	2,660	1,051	3,119	6,831
JUN-2003	3,066	1,311	4,735	9,112
JUN-2004	3,395	1,449	4,881	9,725
JUN-2005	3,959	1,721	6,184	11,865
JUN-2006	5,051	2,018	11,490	18,559
JUN-2007	6,192	2,697	16,227	25,116
JUN-2008	6,809	3,770	19,559	30,139
JUN-2009	7,041	4,647	22,664	34,352
JUN-2010	7,000	4,593	23,513	35,106
JUN-2011	7,289	5,420	25,467	38,177
JUN-2012	6,351	6,169	41,399	53,920
JUN-2013	6,751	5,747	43,780	56,278
JUN-2014	8,307	5,494	43,845	57,646
JUN-2015	9,136	5,269	40,999	55,404
JUN-2016	8,910	4,803	35,981	49,694
JUN-2017	6,632	4,550	24,232	35,414
JUN-2018	6,006	4,617	31,965	42,588
JUN-2019	5,548	3,762	16,801	26,111

Source: ABS 8752.0 & 8762.0 (Current Prices - Original Series - \$ Millions).

PERTH DEVELOPMENT CONSTRUCTION WORK DONE

ANNUAL VALUE OF NON-RESIDENTIAL BUILDING WORK DONE IN WESTERN AUSTRALIA

YEAR ENDING	COMMERCIAL	INDUSTRIAL	RETAIL	EDUCATION	HEALTH
JUN-2002	239	173	185	198	38
JUN-2003	281	259	252	157	41
JUN-2004	316	293	266	200	77
JUN-2005	365	340	310	203	129
JUN-2006	363	440	426	235	75
JUN-2007	447	672	531	351	93
JUN-2008	737	1,112	674	401	146
JUN-2009	1,308	1,432	566	427	152
JUN-2010	1,082	1,109	432	845	466
JUN-2011	945	1,294	507	1,180	708
JUN-2012	1,198	1,835	455	561	1,144
JUN-2013	998	1,868	519	497	1,132
JUN-2014	1,186	1,271	856	600	946
JUN-2015	1,370	825	778	651	600
JUN-2016	918	299	638	564	368
JUN-2017	622	419	927	536	272
JUN-2018	770	493	1,031	563	214
JUN-2019	554	570	759	510	129

Source: ABS 8752.0 (Original Cost - \$ Millions).

AGED CARE	HOTELS	ENTERTAINMENT & RECREATION	OTHER	TOTAL
37	34	93	54	1,051
43	59	186	33	1,311
83	74	108	32	1,449
59	123	80	112	1,721
57	123	71	228	2,018
111	149	89	253	2,697
70	204	170	257	3,770
103	143	316	200	4,647
78	110	318	152	4,593
65	161	305	254	5,420
64	236	290	387	6,169
43	182	266	243	5,747
52	120	192	272	5,494
84	309	377	274	5,269
121	520	636	228	4,803
144	460	693	311	4,550
263	531	432	320	4,617
268	357	309	292	3,746

PERTH DEVELOPMENT CONSTRUCTION WORK DONE

ANNUAL VALUE OF RESIDENTIAL BUILDING WORK DONE IN WESTERN AUSTRALIA

YEAR ENDING	NEW HOUSES	NEW APARTMENTS & SEMI DETACHED HOUSING	ALTERATIONS & ADDITIONS INCLUDING CONVERSIONS	TOTAL RESIDENTIAL
JUN-1990	1,120	363	150	1,633
JUN-1991	857	212	148	1,217
JUN-1992	872	228	127	1,226
JUN-1993	1,102	346	141	1,589
JUN-1994	1,412	411	150	1,973
JUN-1995	1,520	480	171	2,171
JUN-1996	1,190	323	182	1,696
JUN-1997	1,275	229	177	1,682
JUN-1998	1,548	213	193	1,954
JUN-1999	1,698	265	216	2,178
JUN-2000	2,097	410	282	2,788
JUN-2001	1,684	398	248	2,331
JUN-2002	1,977	396	287	2,660
JUN-2003	2,346	412	308	3,066
JUN-2004	2,569	507	319	3,395
JUN-2005	2,907	677	375	3,959
JUN-2006	3,803	818	430	5,051
JUN-2007	4,514	1,143	535	6,192
JUN-2008	4,687	1,458	664	6,809
JUN-2009	4,722	1,682	638	7,041
JUN-2010	5,006	1,267	727	7,000
JUN-2011	5,076	1,396	817	7,289
JUN-2012	4,620	984	748	6,351
JUN-2013	4,840	1,203	708	6,751
JUN-2014	6,008	1,626	673	8,307
JUN-2015	6,652	1,820	664	9,136
JUN-2016	6,108	2,014	787	8,910
JUN-2017	4,427	1,584	620	6,632
JUN-2018	4,038	1,345	623	6,006
JUN-2019	3,658	1,252	632	5,542

Source: ABS 8752.0 (Original Cost - \$ Millions).

PERTH DEVELOPMENT DWELLING COMMENCEMENTS

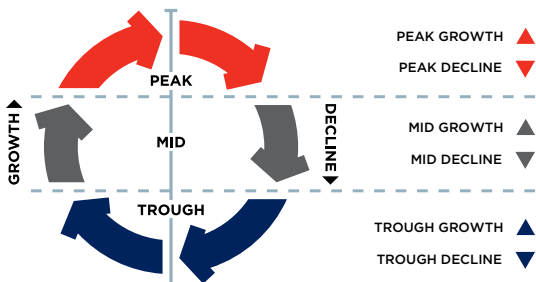
ANNUAL NUMBER OF DWELLING COMMENCEMENTS IN WESTERN AUSTRALIA

YEAR ENDING	NEW HOUSES	NEW APARTMENTS & SEMI DETACHED HOUSING	TOTAL RESIDENTIAL
JUN-1990	11,300	5,644	17,311
JUN-1991	10,318	3,059	13,507
JUN-1992	12,278	4,044	16,408
JUN-1993	15,010	5,778	20,864
JUN-1994	18,118	6,682	24,996
JUN-1995	16,226	6,073	22,433
JUN-1996	11,511	3,721	15,336
JUN-1997	12,522	2,241	14,849
JUN-1998	14,790	2,360	17,265
JUN-1999	15,948	2,407	18,447
JUN-2000	18,650	3,916	22,832
JUN-2001	10,864	2,586	13,854
JUN-2002	16,316	2,833	19,225
JUN-2003	16,943	3,353	20,436
JUN-2004	18,631	3,850	22,575
JUN-2005	18,248	4,608	22,968
JUN-2006	21,754	4,041	26,005
JUN-2007	19,934	4,807	24,913
JUN-2008	16,988	5,360	22,525
JUN-2009	14,840	3,623	18,570
JUN-2010	20,078	5,380	25,502
JUN-2011	17,055	3,858	20,981
JUN-2012	14,729	3,079	17,861
JUN-2013	19,024	5,652	24,854
JUN-2014	23,097	6,445	29,638
JUN-2015	23,609	8,002	31,732
JUN-2016	18,098	7,111	25,513
JUN-2017	14,453	5,084	19,637
JUN-2018	13,562	4,664	18,304
JUN-2019	12,025	3,559	15,634

Source: ABS 8752.0 (Number)

PERTH DEVELOPMENT RLB CONSTRUCTION MARKET ACTIVITY CYCLE

Activity within the construction industry traditionally has been subject to volatile cyclical fluctuations. The RLB Construction Market Activity Cycle (cycle) is a representation of the development activity cycle for the construction industry within the general economy.



Within the general construction industry, RLB considers seven sectors to be representative of the industry as a whole.

Each sector is assessed as to which of the three zones (peak, mid or trough) best represents the current status of that sector within the cycle, then further refined by identifying whether the current status is in a growth or a decline phase.

The 'up' and 'down' arrows within the table represent whether the sector is in a growth or decline phase with the colour of the arrow determining the zone within the cycle.

PERTH	Q2 2017	Q4 2017	Q2 2018	Q4 2018	Q2 2019	Q4 2019
HOUSES	▼	▼	▲	▲	▲	▲
APARTMENTS	▼	▼	▼	▼	▼	▼
OFFICES	▼	▼	▼	▼	▼	▼
INDUSTRIAL	▲	▲	▲	▲	▲	▲
RETAIL	▲	▲	▲	▲	▲	▼
HOTEL	▼	▼	▼	▼	▼	▼
CIVIL	▲	▲	▲	▲	▲	▲

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BENCHMARKS REGIONAL INDICES

The construction cost information in this publication is based upon rates for capital city construction projects and are current for the Fourth Quarter 2019. For towns or cities outside capital cities, costs can be expected to vary in accordance with the following table of indices:

NEW SOUTH WALES		QUEENSLAND		WESTERN AUSTRALIA	
SYDNEY	100	BRISBANE	100	PERTH	100
ARMIDALE	105	CAIRNS	105	ALBANY	120
COFFS HARBOUR	100	GLADSTONE	125	BROOME	145
NEWCASTLE	99	GOLD COAST	95	BUNBURY	105
ORANGE	106	MACKAY	114	CARNARVON	140
TAMWORTH	102	SUNSHINE COAST	95	ESPERANCE	125
WAGGA WAGGA	106	TOWNSVILLE	106	GERALDTON	108
WOLLONGONG	100			KALGOORLIE	140
				KUNUNURRA	160
				PORT HEDLAND	170
				TOM PRICE	165

The above table should be used only as a comparative guide, and is only appropriate for the urban precincts nominated and for the larger commercial projects.

Care must be taken to review specific local market conditions within the anticipated time frame of a project's development period before establishing and committing viable budgets for projects.

In the event that projects are required to be constructed in remote locations or in areas without urban infrastructure, then special consideration must be given to the budget structure of these projects. Each project must be considered in detail and its specific resource requirements assessed and sourced to establish budget costs.

RLB recommend that advice on local market conditions be sought from our regional offices when initial project budgets and feasibility studies are in the process of establishment. Our regional offices are identified on page 84.

BENCHMARKS

KEY CITY RELATIVITIES - Q4 2019

RLB's Key City Relativity Matrix highlights the cost relativity between key Australian cities. The Relativity Matrix compares the general cost of building between cities. Each column represents a base city indexed to 100 with other city's relativities re-indexed to that base city.

In order to calculate the relativity between different cities, the difference can be calculated using the following formula:

$$C_{cc} = B_{cc} \times \left(\frac{C_r}{C_b}\right)^{-1}$$

where:

C_{cc} = Compared city cost
 B_{cc} = Base city cost

C_r = Relativity of compared city
 C_b = Relativity of base city

For example, when comparing costs between Sydney (base city) and Perth (compared city), Sydney building costs are generally 20.5% more than Perth i.e. (100/83) and Perth is 17.4% cheaper than Sydney i.e. (100/121)

If the tendered price of a building in Sydney was \$1,000,000, the equivalent cost in Perth would be \$830,000 i.e. (1,000,000 x (100/83))⁻¹ and conversely a \$1,000,000 building in Perth would cost \$1,210,000 in Sydney, i.e. 1,000,000 x (100/121)⁻¹

ADELAIDE 100		BRISBANE 100		CANBERRA 100		DARWIN 100		GOLD COAST 100	
BNE	93	ADE	107	ADE	94	ADE	96	ADE	115
CAN	107	CAN	115	BNE	87	BNE	89	BNE	107
DAR	104	DAR	112	DAR	98	CAN	103	CAN	123
GC	87	GC	93	GC	81	GC	83	DAR	120
MEL	105	MEL	112	MEL	98	MEL	100	MEL	121
PER	97	PER	104	PER	90	PER	93	PER	112
SYD	120	SYD	129	SYD	112	SYD	115	SYD	138
TVE	99	TVE	106	TVE	92	TVE	95	TVE	114

MELBOURNE 100		PERTH 100		SYDNEY 100		TOWNSVILLE 100	
ADE	96	ADE	104	ADE	84	ADE	101
BNE	89	BNE	96	BNE	78	BNE	94
CAN	102	CAN	111	CAN	89	CAN	108
GC	83	GC	90	GC	72	GC	88
DAR	100	DAR	108	DAR	87	DAR	106
PER	92	MEL	108	MEL	87	MEL	106
SYD	114	SYD	124	PER	81	PER	98
TVE	94	TVE	102	TVE	82	SYD	121

BENCHMARKS

OFFICE BUILDING EFFICIENCIES

The efficiency of an office building is expressed as a percentage of the Net Lettable Area (NLA) to the Gross Floor Area (GFA). The table below indicates that relationship to the GFA of the whole building both with car parks and basements included and excluded, that could be expected for an average project in the nominated category. Also shown is the average net to gross efficiency of the office floors only in each of the eight building types listed below.

TYPE OF CBD OFFICE BUILDING	EFFICIENCY		
	BASEMENTS AND CAR PARKS		
	INCLUDED %	EXCLUDED %	OFFICE FLOORS %
PRESTIGE			
10 TO 25 STOREYS	63-68	75-80	85-90
25 TO 40 STOREYS	58-63	70-75	80-85
40 TO 55 STOREYS	53-58	68-73	75-80
INVESTMENT			
UP TO 10 STOREYS	69-74	81-85	86-91
10 TO 25 STOREYS	64-69	76-81	81-86
25 TO 40 STOREYS	59-64	71-76	76-81
INVESTMENT, OTHER THAN			
UP TO 10 STOREYS	70-75	82-86	87-92
10 TO 25 STOREYS	65-70	77-82	82-87

PLANT ROOM SPACE

Generally plant room space represents 6-11% of the GFA of a multi-storey office building.

REINFORCEMENT RATIOS

The following ratios give an indication of the average weight of reinforcement per cubic metre of concrete for the listed elements. Differing structural systems and sizes of individual elements and grid sizes will cause considerable variation to the stated ratios. For project specific ratios a structural engineer should be consulted.

	AVE KG/M ³		AVE KG/M ³	
STRIP FOOTINGS	50	STRAP BEAMS	120	
COLUMN BASES	40	SLAB ON GROUND	40	
PILE CAPS	50	SUSPENDED SLABS 100-150 MM ONE AND TWO WAY	90	
BORED PIER	90	250 MM FLAT PLATE	120	
RAFT FOUNDATION	70	250 MM WAFFLE	160	
PEDESTAL & STUB COLUMNS	240	COLUMNS	240	
RETAINING WALLS				
1-2 STOREY	70	BEAMS	170	
2-3 STOREY	120			
GROUND BEAMS	120	WALLS (CORE)	140	
		STAIRS	80	

BENCHMARKS

LABOUR AND MATERIALS

TRADE RATIOS

The following represents the ratio of on-site labour to material for various trades and sub-trades based upon our own survey.

The figures are relevant to all works constructed by traditional methods; variations to these methods will change the ratios, i.e. on-site fabrication of items traditionally factory fabricated such as joinery fittings, metalwork items, etc.

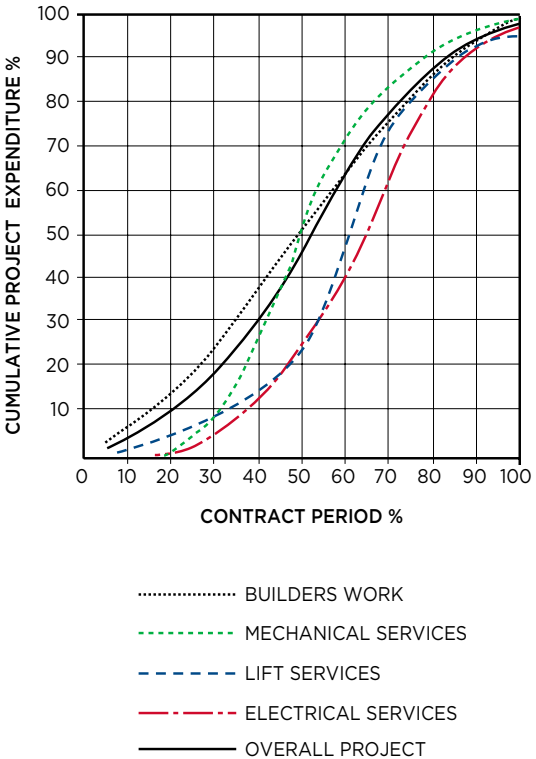
PRELIMINARIES	40	10	50
DEMOLISHER	85		15
EXCAVATOR	32	15	53
PILER	20	50	30
IN SITU CONCRETOR	25		75
FORMWORKER	70		30
REINFORCEMENT FIXER	20		80
PRECAST CONCRETOR	20		80
BRICKLAYER & BLOCKLAYER	50		50
MASON	10		90
ASPHALTOR	40		60
STRUCTURAL STEELWORK	60		40
METALWORKER	20		80
SUSPENDED CEILING FIXER	40		60
CARPENTER	45		55
JOINER	15		85
STEEL DECK ROOFER	40		60
BITUMINOUS BUILT UP ROOFER	30		70
PIPEWORK PLUMBER	60		40
FITTING PLUMBER	25		75
DRAINER	65		35
PLASTERER	80		20
PLASTERBOARD & FIB. PLASTER FIXER	40		60
CERAMIC TILER	55		45
VINYL TILER	45		55
IN SITU PAVIOR	75		25
GLAZIER	20		80
PAINTER	75		25
CARPET LAYER	10		90
ROADWORKER & EXTERNAL PAVIOR	15		85
AIR CONDITIONING SPECIALIST	35		65
LIFT INSTALLER	25		75
ELECTRICAL SPECIALIST	40		60
WATER FIRE SERVICE SPECIALIST	44		56

LABOUR
 MATERIAL
 FIXED FACTOR

BENCHMARKS

PROGRESS PAYMENT CLAIMS

Average rate of claims expenditure on construction projects from \$4,000,000 to \$34,000,000 and/or greater than one year but less than two years construction period to practical completion are depicted in the following graph.



BENCHMARKS

COMMON INDUSTRY ACRONYMS

PROJECT MANAGEMENT

AA	Architects Advice
ABIC	Australian Building Industry Contracts
AI	Architects Instruction
AIA	Australian Institute of Architects
BCA	Building Code of Australia
BOQ	Bill of Quantities
BP	Building Permit
BS	Building Surveyor
CA	Contract Administration
CAN	Consultants Advice Notice
DA	Development Application
DD	Design Development
DWG	Drawing (also an Autocad file format)
EBD	Evidence Based Design
ESD	Environmentally Sustainable Design
PI	Professional Indemnity (Insurance)
PM	Project Manager
QS	Quantity Surveyor
RCP	Reflected Ceiling Plan
RFI	Request for Information
SD	Schematic Design

ARCHITECTURAL DRAWINGS

ABS	Acrylonitrile Butadiene Styrene (Edging)
AS	Australian Standards
COL	Column
CTS	Centres (Spacing)
DP	Downpipe
ENS	Ensuite
EX	Existing
FC	Fibre Cement (Sheet)
FCL	Finished Ceiling Level
FFL	Finished Floor Level
FR	Fire Rated
GFA	Gross Floor Area
HMR	Highly Moisture Resistant (Particleboard)
KDHW	Kiln Dried Hardwood
MDF	Medium Density Fibreboard
PB	Plasterboard
RL	Relative Level
SS	Stainless Steel
TYP	Typical
VOC	Volatile Organic Compound
WC	Water Closet (Toilet)

LAND SURVEYS

AHD	Australian Height Datum
AMG	Australian Mapping Grid
DP	Downpipe
IL	Invert Level
U/G	Underground
RL	Relative Level

STRUCTURAL DRAWINGS

CFW	Continuous Fillet Weld
CHS	Cylindrical Hollow Section
CJ	Construction Joint
EA	Equal Angle
PFC	Parallel Flange Channel
RB	Roof Beam
RHS	Rectangular Hollow Section
SB	Sill Beam
SHS	Square Hollow Section
TB	Tie Beam
UA	Unequal Angle
UB	Universal Beam
UC	Universal Column
WT	Wall Tie

HYDRAULIC DRAWINGS

DCW	Domestic Cold Water
DHW	Domestic Hot Water
FH	Fire Hydrant
FHR	Fire Hose Reel
FIP	Fire Indicator Panel
FS	Fire Service
FW	Floorwaste
HWS	Hot Water System
TD	Tundish
TMV	Thermostatic Mixing Valve
UPVC	Unplasticated Polyvinyl Chloride (Pipework)
VP	Vent Pipe

MECHANICAL DRAWINGS

A/C	Air Conditioning
A/P	Access Panel
ACU	Air Conditioning Unit
AHU	Air Handling Unit
CU	Condensing Unit
FCU	Fan Coil Unit
FD	Fire Damper
R/A	Return Air
S/A	Supply Air
SD	Smoke Damper

ELECTRICAL DRAWINGS

DB	Distribution Board
DGPO	Double General Power Outlet
GPO	General Power Outlet
MSB	Main Switchboard
RCD	Residual Current Device
SB	Switchboard

BENCHMARKS

METHOD OF MEASUREMENT OF BUILDING AREAS

The rules for measurement of building areas are defined by the Australian Institute of Quantity Surveyors and the Australian Institute of Architects.

The definitions are as follows: Unit of measurement: square metres (M²).

GROSS FLOOR AREA (GFA)

The sum of the "Fully Enclosed Covered Area" and "Unenclosed Covered Area" as defined.

FULLY ENCLOSED COVERED AREA (FECA)

The sum of all such areas at all building floor levels, including basements (except unexcavated portions), floored roof spaces and attics, garages, penthouses, enclosed porches and attached enclosed covered ways alongside buildings, equipment rooms, lift shafts, vertical ducts, staircases and any other fully enclosed spaces and usable areas of the building, computed by measuring from the normal inside face of exterior walls but ignoring any projections such as plinths, columns, piers and the like which project from the normal inside face of exterior walls. It shall not include open courts, lightwells, connecting or isolated covered ways and net open areas or upper portions of rooms, lobbies, halls, interstitial spaces and the like which extend through the storey being computed.

UNENCLOSED COVERED AREA (UCA)

The sum of all such areas at all building floor levels, including roofed balconies, open verandahs, porches and porticos, attached open covered ways alongside buildings, undercrofts and usable space under buildings, unenclosed access galleries (including ground floor) and any other trafficable covered areas of the building which are not totally enclosed by full height walls, computed by measuring the area between the enclosing walls or balustrade (ie. from the inside face of the UCA excluding the wall or balustrade thickness). When the covering element (ie. roof or upper floor) is supported by columns, is cantilevered or is suspended, or any combination of these, the measurements shall be taken to the edge of the paving or to the edge of the cover, whichever is the lesser. UCA shall not include eaves overhangs, sun shading, awnings and the like where these do not relate to the clearly defined trafficable areas, nor shall it include connecting or isolated covered ways.

BENCHMARKS

METHOD OF MEASUREMENT OF BUILDING AREAS

BUILDING AREA (BA)

The total enclosed and unenclosed area of the building at all building floor levels measured between the normal outside face of any enclosing walls, balustrades and supports.

USABLE FLOOR AREA (UFA)

The sum of the floor areas measured at floor level from the general inside face of walls of all interior spaces related to the primary function of the building. This will normally be computed by calculating the "Fully Enclosed Covered Area" (FECA) and deducting all the following areas supplementary to the primary function of the building:

Deductions

- (a) Common Use Areas
- (b) Service Areas
- (c) Non-Habitable Areas

NET LETTABLE AREA (NLA)

Application

Calculating tenancy areas in office buildings and office & business parks.

Definition

3.1 The net lettable area of a building is the sum of its whole floor lettable areas.

3.2 Net Lettable Area - Whole Floors

The whole floor net lettable area is calculated by:

3.2.1 taking measurements from the internal finished surfaces of permanent internal walls and the internal finished surfaces of dominant portions of the permanent outer building walls

3.2.2 included in the lettable area calculation are:

3.2.2.1 window mullions

3.2.2.2 window frames

3.2.2.3 structural columns

3.2.2.4 engaged perimeter columns or piers

3.2.2.5 fire hose reels attached to walls

3.2.2.6 additional facilities specially constructed for or used by individual tenants that are not covered in section 3.2.3

BENCHMARKS

METHOD OF MEASUREMENT OF BUILDING AREAS

- 3.2.3 excluded from the lettable area of each tenancy are:
- 3.2.3.1 stairs, accessways, fire stairs, toilets, recessed doorways, cupboards, telecommunication cupboards, fire hose reel cupboards, lift shafts, escalators, smoke lobbies, plant/motor rooms, tea rooms and other service areas, where all are provided as standard facilities in the building
 - 3.2.3.2 lift lobbies where lifts face other lifts, blank walls or areas listed in section 3.2.3.1 above
 - 3.2.3.3 areas set aside for the provision of all services, such as electrical or telephone ducts and air conditioning risers to the floor, where such facilities are standard facilities in the building
 - 3.2.3.4 area dedicated as public spaces or thoroughfares such as foyers, atria and accessways in lift and building service areas
 - 3.2.3.5 areas and accessways set aside for use by service vehicles and for delivery of goods, where such areas are not for the exclusive use of occupiers of the floor or building
 - 3.2.3.6 areas and accessways set aside for car parking
 - 3.2.3.7 areas where there is less than 1.5 metre height clearance above floor level – these spaces should be measured and recorded separately
- 3.3 Net Lettable Area (NLA) - Sub Divided Floors
Follow 3.2 but measure to the centre line of inter-tenancy walls or partitions except where the walls or partitions adjoin public areas, such as lobbies and corridors, in which case measure to the line of the dominant portion of their public area faces.
- 3.4 Treatment of Balconies, Verandahs etc. Balconies, terraces, planter boxes, verandahs, awnings and covered areas should be excluded from tenancy area calculations, but may be separately identified for the purpose of negotiating rentals.

Areas should be measured to the inside face of the enclosing walls or structures. The outer edge of the awning or covered area is the defined edge.

ASSETS AND FACILITIES

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Through the Rider Levett Bucknall | Life suite of services, we are able to provide meaningful, practical, commercial advice to clients in the delivery of sustainable and economically responsible projects.

The services help building owners understand the life value and expectancy of their buildings' whole life costs and provide options to extend the useful life of buildings and maintain quality.

ASSETS AND FACILITIES SUSTAINABILITY AND QUALITY

Sustainability is concerned with improving the quality of life while living within the carrying capacity of supporting ecosystems. The planning, delivering and managing of our Built Environment requires a balance between environmental, economic and social factors.

The provision of a more productive, sustainable and liveable Built Environment is best considered in collaboration with all the stakeholders, including owners, managers and tenants. This process should include not only the review of sustainability objectives and initiatives, but address functional requirements and whole of life costings along with the implementation of facilities planning and asset management strategies. Rating systems developed to assist with performance benchmarking within Australia include:

Green Star - The Green Building Council of Australia's (GBCA) six star environmental rating system evaluates: communities, design, as-built of buildings, interiors, building performance in terms of energy and water efficiency, indoor environmental quality and resource conservation.

NABERS - National Australian Built Environment Rating System is a national program managed by the NSW Department of Environment and Heritage. NABERS measures the environmental performance of Australian offices, tenancies, shopping centres, hotels, data centers and homes. There are NABERS tools for energy efficiency, water usage, waste management and indoor environment quality. Additionally, a NABERS Energy rating forms part of the Building Energy Efficiency Certificate (BEEC) requirement under the Commercial Building Disclosure (CBD) program. The CBD Program requires most sellers and lessors of office space of 2,000 M² or more to have an up-to-date Building Energy Efficiency Certificate (BEEC).

IS - The Infrastructure Sustainability Council of Australia's (ISCA) Infrastructure Sustainability (IS) rating scheme. IS is Australia's only comprehensive rating system for evaluating sustainability across design, construction and operation of infrastructure. IS evaluates the sustainability (including environmental, social, economic and governance aspects) of infrastructure projects and assets including transport, energy, water and communications sectors.

Quality - Property Council of Australia's (PCA) "a Guide to Office Building Quality" (2006, 2012), provides separate tools for assessing office building quality in new and existing buildings. The tools provide a guide to parameters that typically influence building quality. They offer a voluntary, market-based approach to classifying building characteristics and performance. The 2nd edition of the guide took effect on 1 January 2012 and includes expanded environmental performance criteria for Energy, Water, Waste and Indoor Environment. Additionally, the Building Management criteria was expanded to include Level of Service, Energy and Water Sub-Metering and Life Cycle/Maintenance Plan requirements.

RLB have staff accredited in the use of Green Star, NABERS, along with access to LEED, BREEAM, GreenMark and other international standards.

RLB also provides Building Quality Assessment (BQA) services for PCA Quality gradings.

ASSETS AND FACILITIES MANAGEMENT STANDARDS

Since late 2012 Standards Australia, supported by FMA Australia, PCA, RICS, SBEnrc, TEFMA and other industry bodies, have been involved with the ISO's international Facilities Management (FM) standards initiative.

ISO 41001:2018 specifies the requirements for a facility management (FM) system when an organization:

- needs to demonstrate effective and efficient delivery of FM that supports the objectives of the demand organization
- aims to consistently meet the needs of interested parties and applicable requirements
- aims to be sustainable in a globally-competitive environment

The requirements specified in ISO 41001:2018 are non-sector specific and intended to be applicable to all organizations, or parts thereof, whether public or private sector, and regardless of the type, size and nature of the organization or geographical location.

Separately, there was the release in 2014 of the ISO 55000 series for Asset Management (AM). ISO 55000 specifies the requirements for the establishment, implementation, maintenance and improvement of a management system for asset management, referred to as an "asset management system" for those wishing to:

- improve the realisation of value for their organization from their asset base
- be involved in the establishment, implementation, maintenance and improvement of an asset management system
- be involved in the planning, design, implementation and review of asset management activities along with service providers



Meanwhile, FMA Australia's local efforts include "An Operational Guide to Sustainable Facilities Management" (2010) - a practical document that provides technical guidance in achieving a more sustainable FM approach in an Australian context.

RLB can provide strategic advisory and technical support across the latest in AM and FM practices.

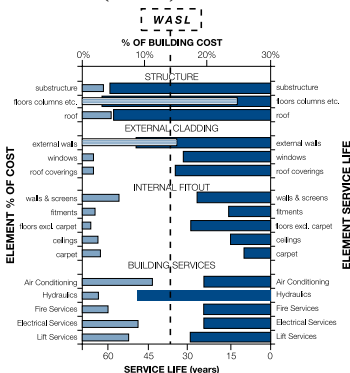
ASSETS AND FACILITIES USEFUL LIFE ANALYSIS

LIFE CYCLE ANALYSIS

Life Cycle Studies recognise that every 'whole' asset consists of many component parts, each with its own life expectancy, interrelationships, resulting quality and maintenance issues. However, in addition to physical obsolescence, useful life expectancy is also dependent on the influence of economic, functional, technological, social and legal obsolescence.

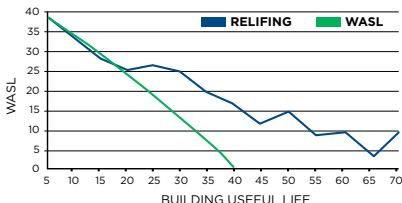
WEIGHTED AVERAGE SERVICE LIFE

Weighted Average Service Life (WASL) is a methodology used to determine the "Useful Life" of an asset. For buildings the WASL is the collective result of applying service life criteria to each element of a cost analysis; excluding capital recurrent expenditure other than routine maintenance.



RELIFING

RELifing takes the "WASL" a stage further by considering the effect of capital upgrades, refurbishments, replacement of plant, architectural fabric and finishes. Below is a graphical representation of a RELifing profile for a typical office building, compared to the base WASL. RELifing analysis is useful for developers, owners and occupiers in financial planning, calculating depreciation and in the negotiation of long term property costs.



ASSETS AND FACILITIES OUTGOINGS

Outgoings are the costs required to operate a property that are generally recoverable by a Landlord from the tenants. The recovery of outgoing is usually calculated by a sharing of costs amongst tenants relative to their leasehold interest. They generally cover the recurrent costs for the delivery of services, maintenance, power and statutory and management costs.

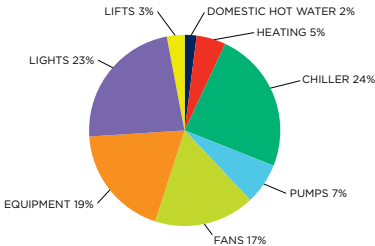
The level of recovery of outgoing is normally governed and regulated by leases and other agreements with tenants.

The cost of outgoing varies depending upon:

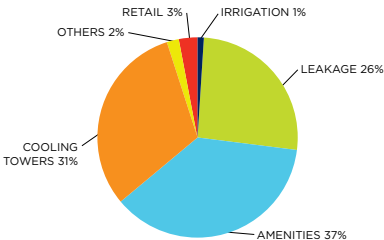
- the level of management and services provided
- lease agreements
- quality, type and efficiency of the building
- location and statutory regimes applicable

The following graphs highlight typical component usage of both energy and water consumption for office buildings.

TYPICAL OFFICE ENERGY USAGE



TYPICAL OFFICE WATER USAGE



ASSETS AND FACILITIES ESSENTIAL SAFETY MEASURES

The following table provides a brief overview of building owners' responsibilities with regard to certifying the annual maintenance of essential safety systems and measures within commercial buildings.

	VIC	QLD	NSW	SA	TAS	ACT	WA	NT
IS MAINTENANCE OF ESSENTIAL SAFETY MEASURES REQUIRED BY LEGISLATION (OTHER THAN BCA)?	✓	✓	✓	✓	✓	✓	✗	✓
IS THERE A PRESCRIBED FORM OF CERTIFICATE?	✓	✓	✓	✓	✓	✗	✗	✗
CERTIFICATE REQUIRED TO BE DISPLAYED	✗	✗	✓	✗	✓	NA	NA	NA
CERTIFICATE REQUIRED TO BE FORWARDED TO AN AUTHORITY	✗	✓	✓	✓	✗	NA	NA	NA
CAN FINES BE IMPOSED IF MAINTENANCE IS NOT CARRIED OUT?	✓	✓	✓	✓	✓	✓	NA	✓

The relevant legislation governing the essential safety measures by state are:

- VIC** Building Regulations 2018 Part 15
- QLD** Fire and Emergency Services Act 1990
- NSW** Environmental Planning and Assessment Regulations 2000
- SA** Development Regulations 2008 & Minister's Specifications SA 76
- TAS** Fire Services Act 1979 & General Fire Regulations 2010
- ACT** Emergencies Act 2004
- WA** Building Regulations 2012 & Building Amendment Regulations 2014
- NT** Northern Territory Fire and Emergency Regulations

Note:

The above is a brief guide only. Other state or national legislation and laws may also be relevant. It is recommended that all property owners consult a building surveyor regarding responsibilities associated with maintenance of essential measures within their buildings.

ASSETS AND FACILITIES CAPITAL ALLOWANCES (TAX DEPRECIATION)

The Australian Taxation Office (ATO) allows a tax deduction for the recovery of the cost of assets used in a business or for the production of income. The Income Tax Assessment Act (ITAA) allows two types of allowances for assets:

Division 40 - Depreciating Assets

Assets with a limited effective life that are reasonably expected to decline in value. The decline in value is based on the cost and effective life of the depreciating asset, not its actual change in value. Examples of these are carpet, air conditioning plant, lights etc.

Division 43 - Capital Allowances

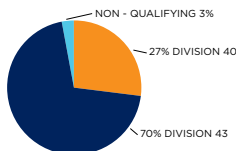
Capital allowances are the building allowance and structural improvement deductions that are available for buildings. Depreciating rates are either 2.5% or 4% dependent on the use of the building and construction commencement date.

The ATO issued the latest effective life review of assets under TR2019/5 which came into effect on the 1st July 2019.

The following broad principles outline the rates of depreciation deductions relative to income producing assets under ITAA 1997 (Division 40 & 43).

- The effective life and hence the rate of depreciation of an item of plant can be self-assessed by the taxpayer
- Depreciating Assets (Division 40) are subject to a balancing adjustment on disposal. Capital works deductions (Division 43) are subject to Capital Gains Tax on disposal
- Low value pool option for assets less than \$1,000 in value depreciated at 18.75% in the first year and 37.50% in subsequent years
- The Diminishing Value rate is currently 200% of Prime Cost rate (excluding low value pool), with the effect of accelerating the tax write off in earlier years of the asset's life

TOTAL ALLOWANCES (\$)



Typical percentage apportionment of depreciation allowances based on new \$300m Commercial Office Tower including fitout with 6 Star Green Star certification.

RLB employs qualified staff, who are registered with the Tax Practitioners Board under the Tax Agent Services Act 2009, for the preparation of Capital Allowance Reports.

ASSETS AND FACILITIES CAPITAL ALLOWANCES (TAX DEPRECIATION)

SCHEDULE OF ASSETS	PRIME COST %	DIMINISHING VALUE %
THE FOLLOWING LIST GIVES A SAMPLE OF ELIGIBLE DEPRECIATING ASSETS.		
OFFICE BUILDING		
HOT WATER INSTALLATIONS	6.667	13.333
MULTI TYPE FIRE DETECTION SYSTEMS	4-16.67	8-33.33
CENTRAL AIR CONDITIONING (VARIOUS RATES APPLY TO EQUIPMENT COMPONENTS)	4-10	8-20
ROOM AIR CONDITIONING	10	20
PACKAGED AIR CONDITIONING	6.667	13.333
ELECTRIC HAND DRYERS	10	20
DEMOUNTABLE PARTITIONS	5	10
SECURITY SYSTEMS	14.286-50	28.572-100
LIGHTING PLANT	10	20
VINYL FLOORING	10	20
CARPET	12.5	25
WINDOW BLINDS	5	10
OFFICE FURNITURE, FREESTANDING	4-10	8-20
ESCALATORS	5	10
LIFTS, ELEVATORS & HOISTS	3.333	6.667
SIGNAGE FOR BUSINESS IDENTIFICATION	10	20
HOTELS, MOTELS		
CARPETS	14.286	28.572
WINDOW BLINDS AND CURTAINS	16.667	33.333
FURNITURE AND FITTINGS (FREE STANDING)	14.286-20	28.572-40
HOT WATER SYSTEMS	10	20
BEDS AND BEDDING	14.286-50	28.572-100
SHOPPING CENTRES		
Generally, the list for office buildings will apply with the following additions:		
FLOATING TIMBER FLOORS	10	20
FURNITURE, FREESTANDING	10	20
INDUSTRIAL		
Generally, the list for office buildings will apply with the following additions:		
CRANES	5	10
GANTRIES	3	6
DOCK LEVELLERS	5	10
ROLLER SHUTTER ELECTRIC MOTORS	5	10
RESIDENTIAL		
Only for assets continuously owned prior to 10/05/17 or new assets (not used) purchased from 10/05/17.		
FLOOR COVERINGS:		
CARPET	10	20
FLOATING TIMBER	6.667	13.333
Hot Water Systems (excluding piping):		
ELECTRIC AND GAS	8.333	16.667
SOLAR	6.667	13.333
Miscellaneous:		
INTERCOM SYSTEM ASSETS	10	20
WINDOW BLINDS	10	20
ROOM AIR CONDITIONING	10	20
Kitchen Assets:		
COOKTOPS, OVENS, RANGEHOODS	8.333	16.667
DISHWASHERS, WASHING MACHINES, CLOTHES DRYERS	10	20

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CALENDARS

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CALENDARS 2019 - 2022

2019

JANUARY 2019

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY 2019

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MARCH 2019

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APRIL 2019

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MAY 2019

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JUNE 2019

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JULY 2019

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AUGUST 2019

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SEPTEMBER 2019

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OCTOBER 2019

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NOVEMBER 2019

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DECEMBER 2019

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2020

JANUARY 2020

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FEBRUARY 2020

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APRIL 2020

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MAY 2020

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JUNE 2020

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JULY 2020

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AUGUST 2020

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SEPTEMBER 2020

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OCTOBER 2020

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NOVEMBER 2020

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DECEMBER 2020

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2021

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FEBRUARY 2021

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MARCH 2021

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APRIL 2021

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MAY 2021

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JULY 2021

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AUGUST 2021

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SEPTEMBER 2021

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OCTOBER 2021

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NOVEMBER 2021

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DECEMBER 2021

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2022

JANUARY 2022

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FEBRUARY 2022

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MARCH 2022

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APRIL 2022

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MAY 2022

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JUNE 2022

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JULY 2022

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AUGUST 2022

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SEPTEMBER 2022

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OCTOBER 2022

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NOVEMBER 2022

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DECEMBER 2022

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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

CALENDARS 2020 ROSTERED DAYS OFF

	ADELAIDE	BRISBANE & DARWIN
BASIS	CFMEU EBA	CFMEU EBA
HOURS BASIS	36	36
JAN	TUESDAY 28	FRIDAY 3
		THURSDAY 23
		TUESDAY 28
FEB	MONDAY 10	MONDAY 17
	MONDAY 24	
MAR	TUESDAY 10	MONDAY 16
APR	THURSDAY 9	TUESDAY 14
	TUESDAY 14	WEDNESDAY 15
	FRIDAY 24	THURSDAY 16
	MONDAY 27	FRIDAY 17
MAY	MONDAY 11	MONDAY 18
	MONDAY 25	
JUNE	TUESDAY 9	MONDAY 8
JUL	MONDAY 13	MONDAY 6
	MONDAY 27	
AUG	MONDAY 10	MONDAY 10
	MONDAY 24	TUESDAY 11
SEP	MONDAY 14	MONDAY 7
	MONDAY 28	
OCT	TUESDAY 6	TUESDAY 6
NOV	MONDAY 9	MONDAY 2
	MONDAY 23	TUESDAY 31
		MONDAY 30
DEC	MONDAY 7	MONDAY 21
	WEDNESDAY 23	TUESDAY 22
	THURSDAY 24	WEDNESDAY 23
	TUESDAY 29	THURSDAY 24
	WEDNESDAY 30	TUESDAY 29
	THURSDAY 31	WEDNESDAY 30
		THURSDAY 31
TOTAL	26	26

CANBERRA	MELBOURNE	PERTH	SYDNEY
CFMEU EBA	CFMEU EBA	CFMEU EBA	CFMEU EBA
38	36	38	36
THURSDAY 2	FRIDAY 10	THURSDAY 2	THURSDAY 9
FRIDAY 24	TUESDAY 28	FRIDAY 3	FRIDAY 10
TUESDAY 28		TUESDAY 28	TUESDAY 28
MONDAY 3	MONDAY 10	MONDAY 10	MONDAY 10
MONDAY 24	MONDAY 24		MONDAY 24
TUESDAY 10	TUESDAY 10	TUESDAY 3	MONDAY 9
MONDAY 30	MONDAY 23		MONDAY 23
THURSDAY 9	TUESDAY 14	TUESDAY 28	THURSDAY 9
TUESDAY 14	WEDNESDAY 15		TUESDAY 14
MONDAY 27	TUESDAY 28		MONDAY 27
MONDAY 4	MONDAY 11	MONDAY 11	MONDAY 11
MONDAY 25	MONDAY 25		MONDAY 25
TUESDAY 9	TUESDAY 9	TUESDAY 24	TUESDAY 9
MONDAY 22	MONDAY 22		MONDAY 22
MONDAY 6	MONDAY 6	MONDAY 6	MONDAY 6
MONDAY 27	MONDAY 20		MONDAY 20
MONDAY 3	MONDAY 30	MONDAY 3	MONDAY 3
MONDAY 24	MONDAY 17	MONDAY 31	MONDAY 17
	MONDAY 31		
MONDAY 7	MONDAY 14	TUESDAY 29	MONDAY 14
MONDAY 28	MONDAY 28		MONDAY 28
TUESDAY 6	MONDAY 12	MONDAY 26	TUESDAY 6
MONDAY 26			MONDAY 19
MONDAY 2	MONDAY 2	MONDAY 2	MONDAY 2
MONDAY 23	WEDNESDAY 4	TUESDAY 3	MONDAY 16
	MONDAY 16		
MONDAY 7	THURSDAY 23	THURSDAY 24	TUESDAY 8
THURSDAY 24	FRIDAY 24	TUESDAY 29	THURSDAY 24
		WEDNESDAY 30	
		THURSDAY 31	
26	26	19 FIXED & 7 VARIABLE	26

CALENDARS

PUBLIC HOLIDAYS IN AUSTRALIA

ALL STATES	2020	2021	2022
NEW YEARS DAY	1 JAN	1 JAN	1 JAN
AUSTRALIA DAY	27 JAN	26 JAN	26 JAN
GOOD FRIDAY	10 APR	2 APR	15 APR
EASTER MONDAY	13 APR	5 APR	18 APR
ANZAC DAY	25 APR	25 APR	25 APR
QUEENS BIRTHDAY (EXCL QLD & WA)	8 JUN	14 JUN	13 JUN
CHRISTMAS DAY	25 DEC	27 DEC	25 DEC
BOXING DAY	28 DEC	28 DEC	26 DEC
AUSTRALIAN CAPITAL TERRITORY			
CANBERRA DAY	9 MAR	8 MAR	14 MAR
EASTER SATURDAY	11 APR	3 APR	16 APR
EASTER SUNDAY	12 APR	4 APR	17 APR
RECONCILIATION DAY	1 JUN	31 MAY	30 MAY
LABOUR DAY	5 OCT	4 OCT	3 OCT
NEW SOUTH WALES			
EASTER SATURDAY	11 APR	3 APR	16 APR
EASTER SUNDAY	12 APR	4 APR	17 APR
BANK HOLIDAY	3 AUG	2 AUG	1 AUG
LABOUR DAY	5 OCT	4 OCT	3 OCT
NORTHERN TERRITORY			
EASTER SATURDAY	11 APR	3 APR	16 APR
MAY DAY	4 MAY	3 MAY	2 MAY
PICNIC DAY	3 AUG	2 AUG	1 AUG
QUEENSLAND			
EASTER SATURDAY	11 APR	3 APR	16 APR
LABOUR DAY	4 MAY	3 MAY	2 MAY
ROYAL QUEENSLAND SHOW	12 AUG	11 AUG	10 AUG
QUEENS BIRTHDAY	5 OCT	4 OCT	3 OCT
SOUTH AUSTRALIA			
EASTER SATURDAY	11 APR	3 APR	16 APR
ADELAIDE CUP DAY	9 MAR	8 MAR	14 MAR
LABOUR DAY	5 OCT	4 OCT	3 OCT
TASMANIA			
ROYAL HOBART REGATTA	10 FEB	8 FEB	14 FEB
LAUNCESTON CUP	26 FEB	24 FEB	23 FEB
EIGHT HOURS DAY	9 MAR	8 MAR	14 MAR
EASTER TUESDAY	14 APR	6 APR	19 APR
LAUNCESTON SHOW	8 OCT	7 OCT	6 OCT
HOBART SHOW	22 OCT	21 OCT	20 OCT
RECREATION DAY (NORTHERN)	2 NOV	1 NOV	7 NOV
VICTORIA			
LABOUR DAY	9 MAR	8 MAR	14 MAR
EASTER SATURDAY	11 APR	3 APR	16 APR
EASTER SUNDAY	12 APR	4 APR	17 APR
GRAND FINAL EVE DAY	25 SEP	TBA	TBA
MELBOURNE CUP DAY	3 NOV	2 NOV	1 NOV
WESTERN AUSTRALIA			
LABOUR DAY	2 MAR	1 MAR	7 MAR
FOUNDATION DAY	1 JUN	7 JUN	6 JUN
QUEENS BIRTHDAY	28 SEP	27 SEP	26 SEP

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