



Rider  
Levett  
Bucknall

**RIDERS  
DIGEST  
2019**

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**Australian Capital Territory Office**

16 Bentham Street,  
Yarralumla ACT 2600  
Telephone: +61 2 6281 5446



# **RIDERS DIGEST**

## **47<sup>TH</sup> EDITION**

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 2018 (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
Advisory	9

# 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.

# 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.rlbintelligence.com](http://www.rlbintelligence.com) for updates.

LOCATION /CITY	LOCAL CURRENCY	COST PER M <sup>2</sup>			
		OFFICE BUILDING			
		PREMIUM		GRADE A	
		LOW	HIGH	LOW	HIGH
<b>AMERICAS @ Q3 2018</b>					
BOSTON	USD	3,230	5,115	2,155	3,230
CHICAGO	USD	3,015	4,845	1,885	3,015
DENVER	USD	1,775	2,745	1,290	1,990
HONOLULU	USD	3,015	5,595	2,585	4,250
LOS ANGELES	USD	2,475	3,765	1,830	2,745
NEW YORK	USD	4,035	6,190	3,230	4,305
PHEONIX	USD	1,830	2,960	1,290	1,885
SEATTLE	USD	2,315	2,800	1,505	2,155
TORONTO	CAD	2,100	2,800	1,885	2,690
<b>ASIA @ Q3 2018</b>					
BEIJING	RMB	8,400	13,750	7,800	11,750
GUANGZHOU	RMB	7,700	12,250	7,100	10,750
HO CHI MINH CITY	VND ('000)	23,900	35,800	21,300	26,600
HONG KONG	HKD	23,250	34,500	19,750	26,750
JAKARTA	RP ('000)	10,130	13,200	6,870	11,000
KUALA LUMPUR	RINGGIT	2,600	4,500	1,400	3,200
MACAU	MOP	18,500	26,500	16,250	22,750
SEOUL	KRK ('000)	2,525	3,275	1,925	2,350
SHANGHAI	RMB	8,200	13,000	7,300	11,250
SINGAPORE	SGD	2,950	4,150	2,050	3,300
<b>EUROPE @ Q3 2018</b>					
BELFAST	GBP	1,400	1,960	1,220	1,960
BERLIN	EUR	1,380	1,800	1,000	1,180
BIRMINGHAM	GBP	1,940	2,850	1,580	2,850
BRISTOL	GBP	2,000	2,900	1,640	2,900
EDINBURGH	GBP	1,820	2,600	1,600	2,600
LONDON	GBP	3,000	3,900	2,700	3,700
MANCHESTER	GBP	2,150	2,750	1,820	2,750
OSLO	EUR	2,900	3,750	2,250	2,900
<b>MIDDLE EAST @ Q3 2018</b>					
ABU DHABI	AED	5,700	6,800	4,600	6,400
DUBAI	AED	6,000	7,200	4,850	6,800
DOHA	QAR	6,500	8,500	6,100	8,200
<b>OCEANIA @ Q4 2018</b>					
ADELAIDE	AUD	2,650	3,800	2,200	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	3,600	4,500	2,750	4,250
DARWIN	AUD	3,100	4,150	2,400	3,800
GOLD COAST	AUD	2,600	4,000	1,900	3,200
MELBOURNE	AUD	3,250	4,350	2,500	3,450
PERTH	AUD	3,000	4,700	2,400	3,750
SYDNEY	AUD	3,750	5,500	2,850	4,050
WELLINGTON	NZD	3,900	5,000	3,050	4,800



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 <sup>2</sup>					
RETAIL				RESIDENTIAL MULTI STOREY	
MALL		STRIP SHOPPING		LOW	HIGH
LOW	HIGH	LOW	HIGH		
1,885	2,960	1,345	2,155	1,885	3,230
1,990	3,120	1,455	2,370	1,775	4,305
970	1,560	860	1,885	970	2,155
2,205	5,220	1,885	4,575	2,100	4,680
1,670	3,660	1,345	1,990	2,155	3,390
2,960	4,575	1,885	3,230	2,155	4,035
1,290	2,155	860	1,615	970	2,260
1,455	3,285	1,185	1,670	1,720	2,905
2,155	2,690	1,130	1,720	1,400	2,205
9,200	14,000	8,100	12,750	4,400	9,000
8,700	12,500	7,500	11,500	4,000	8,000
20,100	26,750	-	-	15,400	23,300
23,250	29,500	20,000	25,750	21,750	43,250
6,520	8,515	-	-	6,870	16,000
2,100	3,500	-	-	1,900	4,500
20,250	24,750	17,000	21,750	13,750	25,250
1,700	2,475	1,425	2,200	1,650	2,775
8,600	13,750	7,600	12,500	4,000	8,200
2,000	3,350	-	-	1,960	3,150
2,200	3,000	680	1,280	1,280	1,800
1,160	1,480	850	1,060	1,000	1,440
2,900	4,100	910	1,760	1,660	2,350
2,850	4,000	900	1,700	1,240	1,760
2,850	3,950	890	1,680	1,680	2,400
3,550	5,000	1,140	2,150	2,550	4,450
3,000	4,200	960	1,800	1,760	2,550
1,820	2,400	1,460	1,900	2,450	3,200
4,000	6,300	-	-	4,400	6,500
4,250	6,700	-	-	4,650	6,900
5,300	6,500	-	-	6,500	7,800
1,580	3,000	1,300	1,840	2,250	3,550
2,850	3,200	1,660	2,050	3,700	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
2,500	2,800	1,400	1,800	3,000	4,000
1,760	2,650	1,260	2,150	2,050	2,650
2,500	3,500	1,200	1,800	1,600	4,500
2,200	3,200	1,240	1,680	2,500	4,400
1,900	2,900	1,000	2,500	1,900	4,100
2,100	4,400	1,600	2,100	2,750	5,900
2,950	3,150	-	-	3,900	4,800

# INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

**Refer to [www.rbintelligence.com](http://www.rbintelligence.com) for updates.**

LOCATION /CITY	LOCAL CURRENCY	COST PER M <sup>2</sup>			
		HOTELS			
		3 STAR		5 STAR	
		LOW	HIGH	LOW	HIGH
<b>AMERICAS @ Q3 2018</b>					
BOSTON	USD	2,690	4,035	4,035	5,920
CHICAGO	USD	3,120	4,415	4,305	7,105
DENVER	USD	1,720	2,585	2,960	3,875
HONOLULU	USD	3,445	5,760	5,435	7,860
LOS ANGELES	USD	2,960	3,820	3,930	5,705
NEW YORK	USD	3,230	4,305	4,305	6,460
PHEONIX	USD	1,615	2,690	3,230	5,595
SEATTLE	USD	2,420	2,585	2,635	3,875
TORONTO	CAD	2,100	2,800	3,230	3,820
<b>ASIA @ Q3 2018</b>					
BEIJING	RMB	10,750	13,750	14,250	18,750
GUANGZHOU	RMB	10,250	12,500	13,750	17,750
HO CHI MINH CITY	VND ('000)	25,000	32,300	35,600	42,700
HONG KONG	HKD	29,000	33,750	35,250	43,000
JAKARTA	RP ('000)	11,500	13,500	15,000	20,000
KUALA LUMPUR	RINGGIT	2,500	3,500	5,000	7,000
MACAU	MOP	24,750	28,500	31,000	38,000
SEOUL	KRK ('000)	1,875	2,600	3,425	5,100
SHANGHAI	RMB	10,500	13,500	14,250	18,750
SINGAPORE	SGD	3,250	3,650	4,250	5,500
<b>EUROPE @ Q3 2018</b>					
BELFAST	GBP	1,040	1,520	1,640	2,250
BERLIN	EUR	1,380	1,800	2,050	2,800
BIRMINGHAM	GBP	1,340	2,100	2,200	3,150
BRISTOL	GBP	1,400	1,860	2,400	3,200
EDINBURGH	GBP	1,360	1,980	2,150	2,950
LONDON	GBP	1,900	2,450	2,850	3,800
MANCHESTER	GBP	1,540	1,920	2,300	3,150
OSLO	EUR	3,000	3,900	4,000	5,200
<b>MIDDLE EAST @ Q3 2018</b>					
ABU DHABI	AED	5,900	8,300	8,800	11,750
DUBAI	AED	6,200	9,300	9,300	14,500
DOHA	QAR	7,500	8,500	11,500	14,500
<b>OCEANIA @ Q4 2018</b>					
ADELAIDE	AUD	2,700	3,550	3,700	4,550
AUCKLAND	NZD	4,200	4,750	5,700	6,700
BRISBANE	AUD	3,000	4,200	4,200	5,700
CANBERRA	AUD	3,100	5,300	4,250	6,400
CHRISTCHURCH	NZD	3,800	4,300	4,500	5,500
DARWIN	AUD	2,850	3,550	3,600	4,450
GOLD COAST	AUD	2,600	4,000	3,400	5,500
MELBOURNE	AUD	2,950	3,800	4,150	5,600
PERTH	AUD	2,600	3,600	3,600	4,800
SYDNEY	AUD	3,350	4,200	4,650	6,300
WELLINGTON	NZD	4,100	4,600	5,100	6,100

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.

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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 <sup>2</sup>					
CAR PARKING				INDUSTRIAL WAREHOUSE	
MULTI STOREY		BASEMENT			
LOW	HIGH	LOW	HIGH	LOW	HIGH
805	1,345	970	1,615	1,075	1,885
860	1,345	1,345	1,830	1,185	1,990
590	805	970	1,290	970	1,615
1,075	1,505	1,505	2,800	1,505	2,420
1,130	1,345	1,400	1,885	1,240	1,940
1,025	1,885	1,345	2,155	1,240	2,155
485	755	645	1,185	590	1,075
970	1,130	1,455	1,720	1,025	1,345
755	970	1,240	1,615	1,240	1,615
2,400	3,350	4,100	7,100	4,750	6,000
2,250	3,200	3,900	6,800	4,400	5,500
9,100	13,700	18,800	25,700	6,210	9,400
9,100	11,000	19,000	26,000	15,500	19,250
3,500	4,500	5,000	7,000	4,790	6,078
800	1,200	1,400	3,400	1,000	1,800
-	-	10,750	13,500	-	-
720	890	920	1,200	1,300	1,600
2,300	3,300	4,300	7,200	4,350	5,700
700	1,400	1,500	2,250	1,100	1,600
260	520	650	1,120	285	510
480	690	800	1,060	370	740
370	710	840	1,440	420	590
410	820	980	1,540	410	670
350	680	850	1,460	380	680
460	920	1,220	1,960	500	900
560	720	1,080	1,560	490	720
700	890	900	1,180	1,600	2,100
1,760	3,500	2,800	4,400	1,460	2,650
2,400	3,700	3,200	4,650	1,900	3,000
-	-	2,750	4,500	-	-
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
850	1,360	1,760	2,200	720	1,100
750	1,260	1,180	1,540	800	1,420
700	1,200	1,500	2,100	700	1,100
810	1,280	1,280	1,680	660	1,220
650	1,000	1,800	3,100	550	1,060
810	1,240	1,180	1,900	770	1,240
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](http://www.rlbintelligence.com) for updates.

CALENDAR YEAR	2016	2017	2018 (F)	2019 (F)	2020 (F)	2021 (F)
<b>AFRICA @ Q3 2018</b>						
CAPE TOWN	7.3	6.2	5.0	5.4	5.7	6.0
JOHANNESBURG	6.4	7.9	4.1	5.1	5.5	5.7
MAPUTO	4.0	0.3	0.5	1.0	1.1	NP
<b>AMERICAS @ Q3 2018</b>						
BOSTON	4.0	3.2	4.7	4.4	4.1	3.0
CALGARY	NP	0.3	4.0	2.5	1.8	1.8
CHICAGO	4.3	5.3	6.8	4.3	3.8	3.5
HONOLULU	0.7	-1.7	2.6	3.3	3.5	3.0
LAS VEGAS	3.3	3.5	5.3	4.3	3.5	3.0
LOS ANGELES	8.4	7.6	4.4	3.8	3.5	3.0
NEW YORK	3.9	3.3	4.1	4.1	3.3	3.0
PHEONIX	3.7	4.3	6.5	4.3	3.3	3.0
SEATTLE	4.7	5.1	5.3	4.1	3.5	3.0
TORONTO	NP	1.1	5.2	2.0	2.3	2.3
WASHINGTON DC	4.3	3.2	4.3	4.1	3.5	3.0
<b>ASIA @ Q3 2018</b>						
BEIJING	0.0	7.7	3.0	4.1	3.0	3.0
CHENGDU	-0.8	2.0	6.1	3.0	3.0	3.0
GUANGZHOU	1.0	2.5	2.0	3.0	3.0	3.0
HONG KONG	0.4	0.0	-2.0	0.0	2.0	2.0
MACAU	0.0	2.0	-2.0	0.0	2.0	2.0
SEOUL	3.9	2.5	4.4	4.9	4.5	4.1
SHANGHAI	6.0	7.0	3.5	3.5	3.0	3.0
SHENZHEN	1.0	2.0	4.1	4.1	4.1	4.1
SINGAPORE	-5.8	-1.5	0.0	NP	NP	NP
<b>EUROPE @ Q3 2018</b>						
BIRMINGHAM	3.0	2.8	2.5	2.3	3.3	4.0
BRISTOL	5.0	2.5	3.0	3.0	3.0	3.0
BUDAPEST	5.5	9.5	8.0	8.0	5.0	NP
LONDON	3.5	2.0	1.3	1.0	1.5	2.0
SHEFFIELD	2.5	2.0	-1.5	3.8	4.3	5.6
MADRID	0.1	0.8	0.1	0.1	NP	NP
MANCHESTER	4.0	2.0	1.0	1.0	2.5	3.5
MOSCOW	0.0	1.0	1.5	1.5	2.0	NP
<b>MIDDLE EAST @ Q3 2018</b>						
ABU DHABI	-5.0	-3.0	3.2	2.7	3.7	4.2
DOHA	5.5	6.0	7.0	NP	NP	NP
DUBAI	3.0	3.5	3.0	2.5	3.5	4.0
RIYADH	5.0	5.0	5.0	5.0	5.0	5.0
<b>OCEANIA @ Q4 2018</b>						
ADELAIDE	1.8	3.1	3.5	4.0	4.0	4.5
AUCKLAND	5.5	8.0	6.0	3.5	3.0	3.0
BRISBANE	7.2	3.0	1.0	3.0	5.1	4.1
CANBERRA	2.5	2.8	3.5	3.2	3.0	3.0
CHRISTCHURCH	3.0	3.0	3.0	2.0	2.0	2.0
DARWIN	1.0	0.8	0.5	0.8	1.2	1.8
GOLD COAST	6.5	2.5	2.0	2.5	3.0	3.5
MELBOURNE	2.0	3.0	4.0	4.0	3.5	3.2
PERTH	0.0	0.0	1.0	2.5	3.0	3.0
SYDNEY	4.8	4.3	4.9	4.4	4.2	3.8
TOWNSVILLE	3.0	4.0	3.0	3.5	3.5	3.5
WELLINGTON	4.5	5.3	6.0	4.0	4.0	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

CITY	ADELAIDE		BRISBANE	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>OFFICE BUILDINGS</b>				
<b>Prestige, CBD</b>				
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
<b>Investment, CBD</b>				
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
<b>Investment, other than CBD</b>				
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
<b>HOTELS</b>				
<b>Multi-Storey (ex FF&amp;E)</b>				
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
<b>CAR PARK</b>				
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
<b>INDUSTRIAL BUILDINGS</b>				
<b>6.00 M to underside of truss and 4,500 M<sup>2</sup> Gross Floor Area with:</b>				
ZINCALUME METAL CLADDING	650	1,000	750	1,100
PRECAST CONCRETE CLADDING	750	1,100	850	1,200
<b>Attached Airconditioned Offices</b>				
200 M <sup>2</sup>	1,560	2,150	2,000	2,600
400 M <sup>2</sup>	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 = \$/M<sup>2</sup> × efficiency percentage.

**Refer to [www.rlbintelligence.com](http://www.rlbintelligence.com) for updates.**

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
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 2018.

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



Building Costs include Building Works and Building Services

Refer to [www.rlbintelligence.com](http://www.rlbintelligence.com) for updates.

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
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 2018.

COST RANGE PER GROSS FLOOR AREA	ADELAIDE		BRISBANE	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>OFFICE BUILDINGS</b>				
<b>Prestige, CBD</b>				
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)	-	-	1,057	1,457
<b>Investment, CBD</b>				
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
<b>INVESTMENT, OTHER THAN CBD</b>				
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
<b>HOTELS</b>				
<b>Multi-Storey</b>				
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
<b>CAR PARK</b>				
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
<b>INDUSTRIAL BUILDINGS</b>				
<b>6.00 M to underside of truss and 4,500 M<sup>2</sup> Gross Floor Area with:</b>				
ZINCALUME METAL CLADDING	213	302	205	367
PRECAST CONCRETE CLADDING	213	345	205	367
<b>Attached Airconditioned Offices</b>				
200 M <sup>2</sup>	481	631	493	626
400 M <sup>2</sup>	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 <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
909	1,319	1,160	1,523	811	1,260	930	1,340	1,028	1,357
964	1,429	1,246	1,594	958	1,338	965	1,395	1,212	1,356
-	-	-	-	1,014	1,432	990	1,470	1,353	1,498
753	1,208	911	1,321	632	1,082	695	1,125	702	976
798	1,208	983	1,445	701	1,150	720	1,185	831	1,066
798	1,263	-	-	774	1,207	760	1,225	920	1,174
476	654	841	1,082	439	711	420	600	480	679
632	909	882	1,281	549	871	565	820	692	941
698	1,030	971	1,326	607	988	660	920	838	1,083
1,295	1,761	1,394	1,753	1,751	2,211	1,235	1,750	1,213	1,535
1,182	1,579	1,272	1,539	1,265	1,887	1,025	1,465	1,075	1,426
932	1,352	1,122	1,386	957	1,443	825	1,265	918	1,192
176	286	201	363	97	286	135	300	67	163
242	483	328	449	171	370	200	405	249	332
176	472	298	449	160	339	185	390	153	285
66	121	135	282	31	63	135	305	50	70
232	410	210	499	183	325	160	335	125	215
232	399	225	518	183	325	170	355	125	217
531	708	661	926	470	654	385	630	514	893
531	642	661	926	470	868	385	595	514	906

# AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2018.

COST RANGE PER GROSS FLOOR AREA	ADELAIDE		BRISBANE	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>AGED CARE</b>				
SINGLE STOREY FACILITY	430	699	518	828
<b>PRIVATE HOSPITALS</b>				
<b>Low Rise Hospital</b>				
45-60 M <sup>2</sup> GFA/BED	1,246	1,514	943	1,686
55-80 M <sup>2</sup> GFA/BED WITH MAJOR OPERATING THEATRE	1,460	1,939	1,427	2,153
<b>CINEMAS</b>				
GROUP COMPLEX, 2,000-4,000 SEATS. (WARM SHELL)	794	1,071	649	1,006
<b>REGIONAL SHOPPING CENTRES</b>				
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
<b>SMALL SHOPS AND SHOWROOMS</b>				
SMALL SHOPS AND SHOWROOMS	411	642	356	672
<b>RESIDENTIAL</b>				
SINGLE & DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	252	554	265	582
<b>RESIDENTIAL UNITS</b>				
WALK-UP 85 TO 120 M <sup>2</sup> /UNIT	212	480	253	502
TOWNHOUSES 90 TO 120 M <sup>2</sup> /UNIT	215	488	253	493
<b>MULTI-STOREY UNITS</b>				
<b>Up to 10 storeys with lift</b>				
UNITS 60-70 M <sup>2</sup>	476	749	464	886
UNITS 90-120 M <sup>2</sup>	455	703	442	851
<b>Over 10 and up to 20 storeys</b>				
UNITS 60-70 M <sup>2</sup>	482	811	562	883
UNITS 90-120 M <sup>2</sup>	468	796	533	840
<b>Over 20 and up to 40 storeys</b>				
UNITS 60-70 M <sup>2</sup>	527	913	639	1,010
UNITS 90-120 M <sup>2</sup>	511	884	616	969
<b>Over 40 and up to 80 storeys</b>				
UNITS 60-70 M <sup>2</sup>	-	-	859	1,141
UNITS 90-120 M <sup>2</sup>	-	-	797	1,082

CANBERRA		DARWIN		MELBOURNE		PERTH		SYDNEY	
\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
431	804	883	1,322	470	1,103	670	1,100	412	763
1,125	1,485	1,433	1,680	997	1,519	1,130	1,500	1,049	1,366
1,369	1,961	1,580	1,981	1,199	2,070	1,275	1,710	1,410	1,955
818	984	1,013	1,278	627	920	695	910	1,017	1,464
768	883	642	877	533	823	630	870	511	700
481	722	662	920	423	784	540	775	513	703
481	653	602	840	371	680	555	695	483	631
596	883	577	918	491	915	-	-	548	867
424	665	519	762	340	685	360	600	529	782
253	690	417	760	220	655	270	570	358	572
244	543	336	649	209	638	235	785	201	744
243	681	400	574	209	575	240	470	228	693
127	681	400	574	209	554	240	470	197	655
566	920	654	851	518	880	495	860	645	912
566	861	620	809	512	849	485	830	610	888
614	920	648	846	554	905	555	860	736	988
614	1,015	636	829	554	874	550	825	702	908
733	1,040	712	875	648	992	655	955	791	1,131
686	1,040	696	855	627	900	630	935	778	1,064
-	-	-	-	821	1,220	870	1,110	1,035	1,345
-	-	-	-	763	1,168	850	1,095	1,009	1,335

# 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	143.9	128.5	160.0	120.0
JUN-2018	150.3	121.6	143.9	129.1	161.3	120.4
SEP-2018	151.6	122.0	145.3	129.6	162.7	121.2
DEC-2018	153.3		145.3		164.1	

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		160.4		151.5		183.0	

# 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 <sup>2</sup>	45-65 M <sup>2</sup>	40-55 M <sup>2</sup>
FOUR STAR	60-85 M <sup>2</sup>	35-45 M <sup>2</sup>	25-40 M <sup>2</sup>
THREE STAR	40-65 M <sup>2</sup>	30-40 M <sup>2</sup>	10-25 M <sup>2</sup>

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 M<sup>2</sup> GFA/bed (150 beds).



## **HOSPITAL**

Low rise hospital (45–60 M<sup>2</sup> GFA/Bed) - Minimal operating theatre capacity, specialist and service areas.

Low rise hospital (55–80 M<sup>2</sup> 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

## 47<sup>TH</sup> EDITION

### ACKNOWLEDGEMENTS

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**Property Council of Australia**

Measurement of Net Lettable Area.

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Land Values, Rents and Yields, Rental Growth Rates and Construction Sector Data.

**Colliers International - NT**

Northern Territory Land Values & Yields and Rental Rates.

**WSP Structures**

Reinforcement Ratios.

**Australian Bureau of Statistics**

Construction and Building Data and CPI information.

For further information or feedback contact:

John Cross

Oceania Research & Development Manager

[john.cross@au.rlb.com](mailto:john.cross@au.rlb.com)

or your local RLB office (page 84)

Rider Levett Bucknall  
13th Floor, 380 St Kilda Road,  
Melbourne Vic. 3004

Telephone: (03) 9690 6111  
Facsimile: (03) 9690 6577

# CANBERRA CONSTRUCTION COSTS

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# CANBERRA CONSTRUCTION BUILDING SERVICES COSTS

All costs current as at Fourth Quarter 2018.

COST RANGE PER GROSS FLOOR AREA	SPECIAL EQUIPMENT		HYDRAULIC	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>OFFICE BUILDINGS</b>				
<b>Prestige, CBD</b>				
- 10 TO 25 STOREYS (75-80% EFFICIENCY)	34	54	88	131
- 25 TO 40 STOREYS (70-75% EFFICIENCY)	35	54	94	136
- 40 TO 55 STOREYS (68-73% EFFICIENCY)	-	-	-	-
<b>Investment, CBD</b>				
UP TO 10 STOREYS (81-85% EFFICIENCY)	-	-	88	121
10 TO 25 STOREYS (76-81% EFFICIENCY)	17	50	78	124
25 TO 40 STOREYS (71-76% EFFICIENCY)	15	47	81	133
<b>Investment, other than CBD</b>				
1 TO 3 STOREYS (81-85% EFFICIENCY)	-	11	76	95
UP TO 10 STOREYS (82-86% EFFICIENCY)	11	17	81	95
10 TO 25 STOREYS (77-82% EFFICIENCY)	15	47	78	105
<b>HOTELS</b>				
<b>Multi-Storey</b>				
FIVE STAR	39	71	253	339
FOUR STAR	34	62	247	316
THREE STAR	18	42	204	285
<b>CAR PARK</b>				
OPEN DECK MULTI-STOREY	-	-	54	44
BASEMENT: CBD	-	-	25	62
BASEMENT: OTHER THAN CBD	-	-	23	60
UNDERCROFT: OTHER THAN CBD	-	-	28	49
<b>INDUSTRIAL BUILDINGS</b>				
<b>6.00 M to underside of truss and 4,500 M<sup>2</sup> Gross Floor Area with:</b>				
ZINCALUME METAL CLADDING	-	-	105	125
PRECAST CONCRETE CLADDING	-	-	105	121
<b>Attached Airconditioned Offices</b>				
200 M <sup>2</sup>	-	-	80	79
400 M <sup>2</sup>	-	-	80	70

## 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 <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
66	100	338	426	174	258	34	89	175	261	909	1,319
63	101	312	442	216	320	45	90	199	287	964	1,429
-	-	-	-	-	-	-	-	-	-	-	-
13	114	323	457	162	226	13	39	155	251	753	1,208
60	110	309	432	166	220	24	50	143	222	798	1,208
64	105	289	411	181	274	17	54	152	240	798	1,263
12	36	262	285	-	54	12	30	114	143	476	654
57	84	252	325	103	166	11	30	116	191	632	909
62	82	258	353	144	210	16	35	125	199	698	1,030
79	120	446	525	197	295	39	85	241	326	1,295	1,761
82	116	368	482	204	247	41	69	206	289	1,182	1,579
12	92	328	442	151	198	26	36	192	257	932	1,352
34	44	-	34	-	53	-	21	88	89	176	286
66	123	54	104	37	79	12	27	48	88	242	483
14	110	51	110	30	60	-	31	58	101	176	472
9	12	-	-	-	-	-	12	28	49	66	121
23	50	-	24	-	-	-	-	105	211	232	410
23	48	-	23	-	-	-	-	105	207	232	399
12	25	274	269	-	148	20	40	146	148	531	708
12	22	274	243	-	130	20	35	146	140	531	642

#### 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.

# CANBERRA CONSTRUCTION BUILDING SERVICES COSTS

COST RANGE PER GROSS FLOOR AREA	SPECIAL EQUIPMENT		HYDRAULIC	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>AGED CARE</b>				
SINGLE STOREY FACILITY	-	13	177	272
<b>PRIVATE HOSPITALS</b>				
Low Rise Hospital				
45-60 M <sup>2</sup> GFA/BED	26	56	192	246
55-80 M <sup>2</sup> GFA/BED WITH MAJOR OPERATING THEATRE	43	151	196	224
<b>CINEMAS</b>				
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	10	16	81	107
<b>REGIONAL SHOPPING CENTRES</b>				
DEPARTMENT STORE	-	24	116	111
SUPERMARKET/VARIETY STORE	-	-	76	91
DISCOUNT DEPARTMENT STORE	-	19	62	83
MALLS	-	33	81	93
SPECIALTY SHOPS	-	-	61	80
<b>SMALL SHOPS AND SHOWROOMS</b>				
SMALL SHOPS AND SHOWROOMS	-	-	44	104
<b>RESIDENTIAL</b>				
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	-	9	118	135
<b>RESIDENTIAL UNITS</b>				
WALK-UP 85-120 M <sup>2</sup> /UNIT	-	-	129	231
TOWNHOUSES 90-120 M <sup>2</sup> /UNIT	-	-	61	246
<b>MULTI-STOREY UNITS</b>				
Up to 10 storeys with lift				
UNITS 60-70 M <sup>2</sup>	-	12	170	240
UNITS 90-120 M <sup>2</sup>	-	11	170	210
Over 10 and up to 20 storeys				
UNITS 60-70 M <sup>2</sup>	-	11	160	233
UNITS 90-120 M <sup>2</sup>	-	13	158	253
Over 20 and up to 40 storeys				
UNITS 60-70 M <sup>2</sup>	6	40	226	262
UNITS 90-120 M <sup>2</sup>	5	44	215	267
Over 40 and up to 80 storeys				
UNITS 60-70 M <sup>2</sup>	-	-	-	-
UNITS 90-120 M <sup>2</sup>	-	-	-	-

## 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 <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>		\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
13	68	116	259	-	-	-	13	125	179	431	804
42	89	515	603	55	96	35	49	261	346	1,125	1,485
55	98	645	903	73	103	86	98	271	384	1,369	1,961
61	65	344	397	151	163	10	37	162	198	818	984
105	97	312	349	-	-	-	15	234	287	768	883
52	77	188	296	-	-	-	12	165	246	481	722
50	83	175	226	-	-	32	51	163	191	481	653
62	86	218	335	-	-	-	28	235	307	596	883
47	75	195	290	-	-	-	16	121	204	424	665
9	37	125	385	-	-	-	14	75	150	253	690
8	22	15	207	-	-	-	14	103	156	244	543
7	30	14	208	-	-	-	18	93	194	243	681
4	32	8	203	-	-	-	20	53	181	127	681
11	57	148	227	113	162	-	19	125	203	566	920
12	55	156	224	107	146	-	18	121	195	566	861
48	70	170	231	106	160	-	18	129	198	614	920
45	70	168	265	106	180	-	21	136	212	614	1,015
66	80	215	320	65	85	11	23	144	230	733	1,040
63	85	193	317	62	73	11	24	137	230	686	1,040
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

#### ELECTRICAL

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

# CANBERRA CONSTRUCTION UNIT COSTS

ITEM	CONSTRUCTION COST RANGE		PER
	LOW	HIGH	
<b>HOTELS</b>			
Multi-Storey (excluding basements)			
FIVE STAR	462,500	660,000	BEDROOM
FOUR STAR	352,500	580,000	BEDROOM
THREE STAR	225,000	335,000	BEDROOM
<b>CAR PARKS</b>			
Based on 30 M <sup>2</sup> per car			
OPEN DECK MULTI-STOREY	24,250	46,250	CAR
BASEMENT - CBD	38,000	72,000	CAR
BASEMENT - OTHER THAN CBD	38,000	66,000	CAR
UNDERCROFT - OTHER THAN CBD	15,250	37,500	CAR
<b>AGED CARE</b>			
FACILITY	162,500	255,000	BEDROOM
<b>PRIVATE HOSPITALS</b>			
Low Rise Hospital			
45-60 M <sup>2</sup> GFA/BED	200,000	432,500	BED
55-80 M <sup>2</sup> GFA/BED	265,000	630,000	BED
<b>CINEMAS</b>			
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	9,300	15,500	SEAT
<b>HOUSING</b>			
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT) - 325 M <sup>2</sup>	540,000	1,850,000	HOUSE
<b>RESIDENTIAL UNITS (EXCL CARPARK/SITE WORKS)</b>			
- WALK-UP UNITS 85-120M <sup>2</sup> /UNIT	210,000	535,000	UNIT
- TOWNHOUSES 90-120M <sup>2</sup> /UNIT	190,000	555,000	UNIT
<b>MULTI-STOREY RESIDENTIAL UNITS</b>			
Up to 10 storeys with lift			
UNITS 60-70 M <sup>2</sup>	195,000	295,000	UNIT
UNITS 90-120 M <sup>2</sup>	230,000	460,000	UNIT
Over 10 and up to 20 storeys			
UNITS 60-70 M <sup>2</sup>	210,000	320,000	UNIT
UNITS 90-120 M <sup>2</sup>	252,500	525,000	UNIT
Over 20 and up to 40 storeys			
UNITS 60-70 M <sup>2</sup>	267,500	362,500	UNIT
UNITS 90-120 M <sup>2</sup>	330,000	587,500	UNIT
Over 40 and up to 80 storeys			
UNITS 60-70 M <sup>2</sup>	305,000	410,000	UNIT
UNITS 90-120 M <sup>2</sup>	377,500	690,000	UNIT



# CANBERRA CONSTRUCTION SITEWORKS COSTS

## LANDSCAPING

	LOW	HIGH	PER
LIGHT LANDSCAPING TO LARGE AREAS WITH MINIMAL PLANTING AND SITE FORMATION BUT EXCLUDING TOPSOIL AND GRASSING	127,500	367,500	HECTARE
DENSE LANDSCAPING AROUND BUILDINGS INCLUDING SHRUBS, PLANTS, TOPSOIL AND GRASSING	85	155	M <sup>2</sup>
GRASSING ONLY TO LARGE AREAS INCLUDING TOPSOIL, SOWING AND TREATING	40	60	M <sup>2</sup>

## CAR PARKS - ON GROUND

Based on 30 M<sup>2</sup> overall area per car with asphalt paving including sub base and sealing.

	LOW	HIGH	PER
LIGHT DUTY PAVING	3,900	6,200	CARSPACE
HEAVY DUTY PAVING TO FACTORY TYPE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, DRAINAGE AND KERB TREATMENT	4,600	7,600	CARSPACE
LIGHT DUTY PAVING TO SHOPPING CENTRE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, AND INCLUDING DRAINAGE AND KERB TREATMENT	3,900	6,200	CARSPACE

## ROADS

Asphalt finish including kerb, channel and drainage.

	LOW	HIGH	PER
RESIDENTIAL ESTATE 6.80 METRES WIDE EXCLUDING FOOT PATH AND NATURE STRIP	800	1,500	M
INDUSTRIAL ESTATE 10.4 METRES WIDE INCLUDING MINIMAL TO EXTENSIVE FORMATION	1,180	2,500	M

## CANBERRA 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	90	130	M <sup>2</sup>
SINGLE/DOUBLE STOREY BRICK HOUSE WITH TILED ROOF	100	145	M <sup>2</sup>
SINGLE STOREY FACTORY/ WAREHOUSE WITH REINFORCED CONCRETE GROUND SLAB, TIMBER OR STEEL FRAMED WALLS			
• METAL CLAD	90	130	M <sup>2</sup>
• BRICK CLAD	110	160	M <sup>2</sup>
TWO STOREY OFFICE BUILDING WITH REINFORCED CONCRETE FRAME MASONRY CLADDING AND METAL ROOF	155	275	M <sup>2</sup>
MULTI-STOREY OFFICE BUILDING UP TO 15 FLOORS WITH MASONRY CLADDING			
• REINFORCED CONCRETE	190	320	M <sup>2</sup>
• STRUCTURAL STEEL	190	320	M <sup>2</sup>
MULTI-STOREY OFFICE BUILDING UP TO 25 STOREYS, CONSTRUCTED OF STEEL FRAME WITH MASONRY CLADDING	250	440	M <sup>2</sup>

## 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	54,000	117,500	BEDROOM
FOUR STAR RATING	32,250	66,000	BEDROOM
THREE STAR RATING	24,750	56,000	BEDROOM

# CANBERRA 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	1,040	1,920	1,580	3,600	M <sup>2</sup>
MAJOR COMPANY HEADQUARTERS	1,040	1,920	1,580	3,600	M <sup>2</sup>
SOLICITORS, FINANCIERS	1,220	2,150	1,880	3,950	M <sup>2</sup>
EXECUTIVE AREAS AND FRONT OF HOUSE	-	-	1,880	3,950	M <sup>2</sup>
COMPUTER AREAS	2,550	3,850	2,550	6,500	M <sup>2</sup>

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	2,050	3,850	EACH
SECRETARIAL	2,800	8,800	EACH
TECHNICAL STAFF	3,500	11,000	EACH
EXECUTIVE	9,000	38,250	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 Green Star 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	640	4,550	M <sup>2</sup>
CBD OFFICES CORE UPGRADE (EXCLUDING LIFTS MODERNISATION)	2,400	5,900	M <sup>2</sup>

# CANBERRA 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	1,160	1,800	M <sup>2</sup>

## SWIMMING POOL CENTRES

	LOW	HIGH	PER
INCLUDING FOYER, KIOSK, OFFICE, LOCKERS, ADMINISTRATION OFFICES, CHANGE ROOMS	1,620	2,950	M <sup>2</sup>

## 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)	412,500	692,500	EACH
• EXTRA FOR HEATING	20,800	38,500	EACH
• EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	140,000	230,000	EACH
• EXTRA FOR WET DECK	55,000	83,000	EACH
OLYMPIC (50.0 X 21.5 M)	1,325,000	2,275,000	EACH
• EXTRA FOR HEATING	40,500	69,000	EACH
• EXTRA FOR FILTRATION AND DOSING PLANT	285,000	487,000	EACH
• EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	93,000	164,000	EACH

## SMALL BOAT AND YACHT MARINA BERTHS

Floating pontoon walkways serviced with power and water.

	LOW	HIGH	PER
DOUBLE LOADED BERTHS	23,500	39,500	BERTH
SINGLE LOADED BERTHS	29,500	45,500	BERTH
SUPER YACHTS	245,000	382,500	BERTH

# CANBERRA 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	64,000	94,000	COURT
RED POROUS (EN-TOUT-CAS)	26,250	41,500	COURT
SYNTHETIC ACRYLIC (FLEXIPAVE)	44,500	64,000	COURT
ASPHALT (5 MM)	35,750	122,500	COURT
PLEXICUSHION	107,500	137,500	COURT
CONCRETE	42,500	59,000	COURT
FLOODLIGHTING	-	-	COURT

## GOLF COURSES

18 hole championship course including siteworks, finishing works, irrigation, grassing, landscaping, green keeping, plant & 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	8,200,000	17,650,000	COURSE
SITE REQUIRING ROCK EXCAVATION	14,025,000	21,825,000	COURSE
SWAMPY SITE REQUIRING DREDGING FOR LAKES, ETC. AND EXTENSIVE FILL	16,450,000	27,100,000	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	45	65	M <sup>2</sup>

## 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	6,200	15,000	SEAT

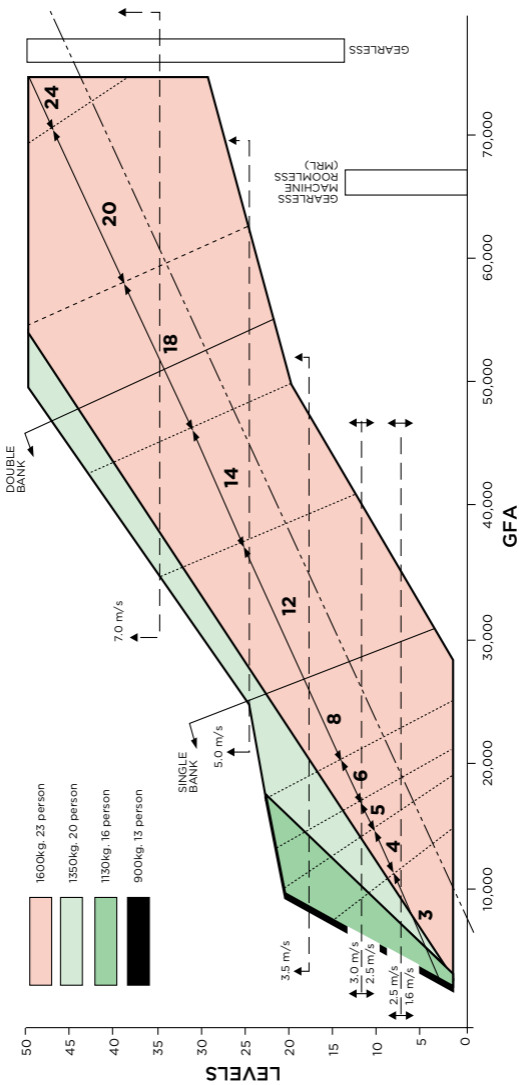
# CANBERRA CONSTRUCTION VERTICAL TRANSPORTATION

## LIFT SELECTION CHART

To calculate the number and type of lifts:

- Locate a point on the graph by using the GFA in M<sup>2</sup> 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.



# CANBERRA 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	95,700	120,800	11,500	7,600
	GEARLESS TO 17 PASSENGER	1	5	120,800	151,000	11,500	7,600
	GEARLESS UP TO 17 PASSENGER	1.6	8	201,300	241,600	11,500	7,600
	GEARLESS	2.5	10	362,300	427,700	11,500	7,600
	GEARLESS	3.5	10	442,800	548,500	11,500	7,600
	GEARLESS	4	10	553,500	578,700	13,400	9,500
	GEARLESS	5	10	644,100	714,600	13,400	9,500
	GEARLESS	6	10	654,200	744,700	13,400	9,500
	GEARLESS	7	10	795,100	835,300	13,400	9,500
	GEARLESS	8	10	805,100	895,700	19,000	11,500
HOSPITAL	GEARED UP TO 40 PASSENGER	2	5	422,700	463,000	15,250	9,500
	GEARLESS	2.5	10	603,900	684,400	16,200	9,500
LARGE GOODS	GEARLESS MRL TO 2,000 KG	1.6	10	327,100	362,300	12,600	8,600
	ELECTRO-HYDRAULIC TO 5,000 KG	0.5	2	382,500	432,800	23,800	16,200
	GEARLESS 2,500 KG	2.5	10	654,200	764,900	16,200	9,500
ESCALATORS	RISE 2,600 TO 5,000 MM	0.5	-	151,000	231,500	-	-
MOVING WALKS	2,500 TO 5,000 MM	0.5	-	140,900	251,600	-	-
SERVICE LIFT	BENCH HEIGHT UNIT	0.2	3	32,300	40,300	4,300	1,430
	LARGER UNIT	0.2	3	50,400	60,400	4,760	1,430
DISABLED PLATFORM LIFT	TO 1,000 MM	0.1	2	32,300	38,300	-	-
	1,000 TO 4,000 MM	0.1	2	45,300	75,500	-	-

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



# CANBERRA DEVELOPMENT

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# CANBERRA DEVELOPMENT STAMP DUTIES

Purchasers of property (houses, land, land and improvements or commercial premises) located in the ACT must pay duty on that purchase.

The rates of duty and thresholds changed on 6th June 2018. Current published rates are:

VALUE OF COMMERCIAL PROPERTY	RATE OF DUTY
LESS THAN OR EQUAL TO \$1,500,000	NIL
MORE THAN \$1,500,000	A FLAT RATE OF \$5.00 PER \$100 APPLIED TO THE TOTAL TRANSACTION VALUE

VALUE OF NON-COMMERCIAL PROPERTY	RATE OF DUTY
UP TO \$200,000	\$20 OR \$1.30 PER \$100 OR PART THEREOF, WHICHEVER IS GREATER
\$200,001 TO \$300,000	\$2,600 PLUS \$2.30 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$200,000
\$300,001 TO \$500,000	\$4,900 PLUS \$3.60 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$300,000
\$500,001 TO \$750,000	\$12,100 PLUS \$4.56 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$500,000
\$750,001 TO \$1,000,000	\$23,500 PLUS \$6.10 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$750,000
\$1,000,001 TO \$1,454,999	\$38,750 PLUS \$6.60 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$1,000,000
\$1,455,000 AND OVER	A FLAT RATE OF \$4.73 PER \$100 APPLIED TO THE TOTAL TRANSACTION VALUE

For further details refer to [www.revenue.act.gov.au](http://www.revenue.act.gov.au).

# CANBERRA DEVELOPMENT LAND TAX

Land tax is a general revenue measure that is used by the Government to provide a range of essential services to the ACT Community. Generally, land tax applies to all residential properties that are rented.

Land tax is assessed quarterly on four key dates: 1 July, 1 October, 1 January and 1 April.

The amount of land tax payable is made up of two components: a fixed charge and a valuation charge.

For the 2018/19 year, the fixed charge is \$1,203.

The valuation charge is calculated by applying a rating factor (refer to table below) to the average unimproved value (AUV), which is the average of the property's unimproved value over the last three years. For example, the AUV for 2018/19 is the average of the property's unimproved value over 2016, 2017, and 2018.

Simply, the annual liability calculation is:

$$\text{Fixed charge} + \text{Valuation charge (AUV} \times \text{Rating factor)}$$

Together, the fixed charge and the valuation charge add up to the total land tax amount for the year, which is then divided into quarters.

TOTAL UNIMPROVED VALUE OF LAND	2018/19 VALUATION CHARGE (ANNUAL RATING FACTORS)
AUV UP TO \$150,000	0.50%
AUV \$150,000 - \$275,000	\$750 PLUS 0.60% OF THE PART OF THE BASE VALUE THAT IS MORE THAN \$150,000
AUV \$275,000 - \$2,000,000	\$1,500 PLUS 1.08% OF THE PART OF THE BASE VALUE THAT IS MORE THAN \$275,000
AUV \$2,000,000 AND ABOVE	\$20,130 PLUS 1.10% OF THE PART OF THE BASE VALUE THAT IS MORE THAN \$2,000,000

For further details refer to [www.revenue.act.gov.au](http://www.revenue.act.gov.au).

# CANBERRA DEVELOPMENT PLANNING – CAR PARKING

The following car parking information is derived from the ACT Planning & Land Authority, Parking and Vehicular Access General Code. The following table shows the parking provision rates for the provision of parking in the commercial zones.

Full details of the ACT Planning Scheme can be found at <http://www.planning.act.gov.au/>

USE OR DEVELOPMENT	CITY CENTRE ZONE	TOWN CENTRE ZONE
CULTURAL FACILITY	0.5 SPACES/ 100 M <sup>2</sup> GFA	
EDUCATION ESTABLISHMENT	1 SPACE/ 10 STUDENTS	
FINANCIAL ESTABLISHMENT	4 SPACES/100 M <sup>2</sup> GFA	
HEALTH FACILITY	3.5 SPACES/100 M <sup>2</sup> GFA	
HOSPITAL	N/A	0.8 SPACES/PEAK SHIFT EMPLOYEES PLUS 0.5 SPACES PER BED
HOTEL	<b>CZ1 ZONE</b> 1 SPACE/3 EMPLOYEES PLUS 0.1 SPACES/ GUESTROOM OR UNIT PLUS 5 SPACES/100 M <sup>2</sup> GFA OF BARS AND FUNCTION ROOMS PLUS 2 SPACES/100 M <sup>2</sup> OF RETAIL SPACE	25 SPACES PLUS 0.3 SPACES/GUEST ROOM OR UNIT FOR ESTABLISHMENTS OF MORE THAN 36 UNITS PLUS 5 SPACES/ 100 M <sup>2</sup> GFA OF BARS AND FUNCTION ROOMS UP TO 5,000 M <sup>2</sup> PLUS 1 SPACE/10 RESTAURANT SEATS PLUS 2 SPACES/100 M <sup>2</sup> OF RETAIL SPACE
		<b>BELCONNEN &amp; WODEN</b> <b>CZ1 AND CZ2:</b> 1 SPACE/100 M <sup>2</sup> GFA <b>CZ3 ZONE:</b> 2.5 SPACES/100 M <sup>2</sup> GFA <b>GUNGAHLIN:</b> 2.5 SPACES/100 M <sup>2</sup> GFA <b>TUGGERANONG:</b> 2 SPACES/100 M <sup>2</sup> GFA
OFFICE	<b>CZ1 ZONE:</b> 1 SPACE/100 M <sup>2</sup> GFA <b>CZ2 ZONE:</b> 2 SPACES/100 M <sup>2</sup> GFA <b>CZ3 ZONE:</b> 2 SPACES/100 M <sup>2</sup> GFA	
PUBLIC AGENCY	4 SPACES/100 M <sup>2</sup> GFA	
RESIDENTIAL USE	<b>CZ1 &amp; CZ2 ZONES:</b> NO MINIMUM REQUIREMENT <b>CZ3 ZONE:</b> 0.8 SPACES PER SINGLE BEDROOM UNIT 1.3 SPACES PER TWO BEDROOM UNIT 1.8 SPACES PER UNIT WITH THREE OR MORE BEDROOMS	
SHOP	4 SPACES/100 M <sup>2</sup> GFA	
WAREHOUSE	1 SPACE/100 M <sup>2</sup> GFA PLUS 2.5 SPACES/ 100 M <sup>2</sup> OF OFFICE AREA	

# CANBERRA DEVELOPMENT LAND VALUES

The values shown are indicative of current land values in the Australian Capital Territory and may vary according to position, planning requirements, etc.

LOCATION (COSTS PER M <sup>2</sup> )	\$/M <sup>2</sup>	
	LOW	HIGH
<b>OFFICES</b>		
CBD	5,500	8,750
FRINGE	3,750	5,750
SUBURBAN (EG. 2,000 M <sup>2</sup> )	5,000	8,000

Prepared in association with Savills.

# CANBERRA DEVELOPMENT RENTAL RATES

The net rents indicated below show the change in levels since 2001. Allowance has been made for the effects of rental incentives, rent free periods, etc.

	OFFICES		INDUSTRIAL
	CIVIC	NON CIVIC	PRIME
2001	225	175	70
2002	225	175	70
2003	225	200	80
2004	250	200	80
2005	275	225	90
2006	300	250	100
2007	350	275	110
2008	380	275	110
2009	400	300	125
2010	425	300	125
2011	435	300	125
2012	435	300	125
2013	435	300	125
2014	412	291	130
2015	397	275	130
2016	397	275	130
2017	400	280	135
2018	400	275	135

# CANBERRA DEVELOPMENT OFFICE SECTOR DATA

## CANBERRA VACANCY RATES - Q2 2018

PCA GRADE	STOCK M <sup>2</sup>	VACANCY M <sup>2</sup>	VAC % JUN-18
PRIME	1,122,200	95,100	8.5
SECONDARY	1,199,300	194,100	16.2
<b>TOTAL</b>	<b>2,321,400</b>	<b>289,200</b>	<b>12.5</b>

Source: PCA/Savills Research.

## CURRENT CANBERRA OFFICE DEVELOPMENT ACTIVITY

PROPERTY	PRECINCT	NLA M <sup>2</sup>	STATUS	COMPLETION	TENANTS
WEST BLOCK, QUEEN VICTORIA TERRACE	BARTON	7,677	M	2022	
LONDON CCT, CNR COOYONG ST	CIVIC	47,520	EP	2020	
LONDON CCT, CNR COOYONG ST	CIVIC	24,450	EP	2021	
LONDON CCT, CNR EDINBURGH AVE	CIVIC	18,870	EP	2021	
125 BUNDA	CIVIC	41,689	DA	2019	
CIVIC QUARTER STG 1, 70 NORTHBOURNE AVE	CIVIC	16,000	DA	2019	
CIVIC QUARTER STG 2, 70 NORTHBOURNE AVE	CIVIC	11,700	DA	2020	
CONSTITUTION PLACE STG 1	CIVIC	20,000	UC	2020	ACT GOVERNMENT
CONSTITUTION PLACE STG 2	CIVIC	9,500	UC	2020	
44 THESIGER COURT	DEAKIN	1,235	UC	2018	

M: Mooted EP: Early Planning DA: Development Approval UC: Under Construction  
Source: Savills Research.

# CANBERRA DEVELOPMENT OFFICE SECTOR DATA

## KEY MARKET INDICATORS - Q3 2018

CANBERRA - CIVIC	PCA GRADE A	
	LOW	HIGH
RENTAL - GROSS FACE	440	500
RENTAL - NET FACE	340	400
INCENTIVE LEVEL (NET)	10	25
RENTAL - NET EFFECTIVE	265	315
OUTGOINGS - OPERATING	55	70
OUTGOINGS - STATUTORY	30	40
OUTGOINGS - TOTAL	85	110
TYPICAL LEASE TERM	5	15
YIELD - MARKET (% NET FACE RENTAL)	5.50	7.00
IRR (%)	7.25	8.50
CARS PERMANENT RESERVED (\$/PCM)	320	385
OFFICE COMPONENT CAPITAL VALUES	6,000	8,500

CANBERRA - NON-CIVIC	PCA GRADE A	
	LOW	HIGH
RENTAL - GROSS FACE	400	450
RENTAL - NET FACE	310	360
INCENTIVE LEVEL (GROSS)	15	25
RENTAL - NET EFFECTIVE	225	270
OUTGOINGS - OPERATING	55	70
OUTGOINGS - STATUTORY	20	32
OUTGOINGS - TOTAL	75	102
TYPICAL LEASE TERM (YEARS)	5	15
YIELD - MARKET (% NET FACE RENTAL)	5.50	8.50
IRR (%)	7.50	-
CARS PERMANENT RESERVED (\$/PCM)	165	230
OFFICE COMPONENT CAPITAL VALUES	4,775	7,725

All rates are \$/M<sup>2</sup> unless otherwise noted.

Source: Savills Research.



# CANBERRA DEVELOPMENT OFFICE SECTOR DATA

PCA GRADE B	
LOW	HIGH
400	435
300	335
18	30
205	230
60	70
30	40
90	110
3	10
7.25	10.00
9.25	10.75
320	385
4,000	5,500

PCA GRADE B	
LOW	HIGH
360	395
270	302
18	30
185	205
60	70
20	32
80	102
3	10
8.00	11.00
9.25	12.00
165	230
3,100	5,000

# CANBERRA DEVELOPMENT AUSTRALIAN CAPITAL TERRITORY FORECASTED DEVELOPMENT ACTIVITY

<b>PROJECT</b>
<b>ACCOMMODATION</b>
ECLIPSE HOUSE
NORTHBOURNE AVENUE ABODE HOTEL & APARTMENTS - MIDNIGHT
BELCONNEN HOTEL
<b>BRIDGES, RAILWAYS, HARBOURS</b>
CANBERRA LIGHT RAIL - CIVIC TO WODEN LIGHT RAIL
<b>EDUCATION</b>
UNIVERSITY OF CANBERRA BRUCE CAMPUS - OVERALL PROJECT
AUSTRALIAN CENTRE FOR CHRISTIANITY & CULTURE
UNIVERSITY OF CANBERRA SPORTING COMMONS
ANU JOHN CURTIN SCHOOL OF MEDICAL RESEARCH
GUNGALIN SCHOOL EXPANSIONS
ANU MATHEMATICAL & COMPUTER SCIENCES BUILDING
<b>HEALTH AND AGED CARE</b>
NORTHERN SUBURBS HOSPITAL
UNIVERSITY OF CANBERRA PUBLIC HOSPITAL
<b>INDUSTRIAL</b>
NEW WEST INDUSTRY PARK DEVELOPMENT SITES
BLACK MOUNTAIN PROPERTY CONSOLIDATION PROJECT
<b>MISCELLANEOUS</b>
ACT LAW COURTS
<b>OFFICES</b>
IMMIGRATION & CUSTOMS HUB
BARTON SITE REDEVELOPMENT
ANZAC PARK WEST
ANZAC PARK EAST OFFICES REDEVELOPMENT
SECTION 63 VERNON SOUTH - BUILDING 3
CONSTITUTION PLACE
RUSSELL OFFICES R5 AND R6
CIVIC QUARTER - STAGE 1
<b>OTHER COMMERCIAL</b>
CANBERRA AIRPORT OVERALL MASTERPLAN
CANBERRA DATA CENTRE
<b>RECREATION AND OTHER</b>
AUSTRALIAN WAR MEMORIAL
<b>RESIDENTIAL</b>
LONDON CIRCUIT DEVELOPMENT SITE
WOVA - WODEN REVAMPED
SECTION 7 REID - CITY 7
WEST BELCONNEN/PARKWOOD URBAN RELEASE - GINNINDERRY
CAMPBELL RESIDENTIAL DEVELOPMENT SITE
DICKSON ON NORTHBOURNE
GOODWIN VILLAGE FARRER
FOUNDERS LANE
<b>RETAIL/WHOLESALE TRADE</b>
KINGSTON SUPERMARKET & APARTMENTS - ATRIA
<b>ROADS</b>
GUNDAROO DRIVE DUPLICATION

Source: ACIF & RLB

LOCATION	VALUE \$M	STAGE
CANBERRA	41	EARLY
BRADDON	79	FIRM
BELCONNEN	30	FIRM
WODEN	400	EARLY
BELCONNEN	1,000	EARLY
BARTON	110	EARLY
BRUCE	50	EARLY
ACTON	25	EARLY
GUNGAHLIN	23	EARLY
ACTON	25	FIRM
CANBERRA	40	EARLY
BRUCE	340	FIRM
HUME	30	EARLY
BLACK MOUNTAIN	195	FIRM
CANBERRA CITY	150	FIRM
MAJURA	185	EARLY
BARTON	85	EARLY
PARKES	48	EARLY
PARKES	45	EARLY
CANBERRA CITY	41	EARLY
CIVIC SQUARE	300	FIRM
RUSSELL	75	FIRM
CANBERRA	54	FIRM
PIALLIGO	48	EARLY
FYSHWICK	150	FIRM
CAMPBELL	21	EARLY
CANBERRA	500	EARLY
PHILLIP	380	EARLY
REID	300	EARLY
HOLT	180	EARLY
CAMPBELL	120	EARLY
DICKSON	96	EARLY
FARRER	84	FIRM
BRADDON	75	FIRM
KINGSTON	69	FIRM
NICHOLLS	35	FIRM

# CANBERRA DEVELOPMENT FORECASTED CONSTRUCTION VOLUME

SECTOR (\$M)	2018-19	2019-20	2020-21
NEW HOUSES	393	409	491
NEW OTHER RESIDENTIAL	798	750	785
ALTERATIONS AND ADDITIONS (LARGE)	128	128	133
OTHER (MAINLY SMALL ALTERATIONS AND ADDITIONS)	378	401	390
<b>TOTAL RESIDENTIAL</b>	<b>1,697</b>	<b>1,688</b>	<b>1,799</b>
RETAIL/WHOLESALE TRADE	146	145	138
OFFICES	240	240	254
OTHER COMMERCIAL	45	39	46
INDUSTRIAL	37	36	34
EDUCATION	207	238	241
HEALTH AND AGED CARE	116	134	148
ENTERTAINMENT AND RECREATION	72	81	81
ACCOMMODATION	50	49	46
MISCELLANEOUS	103	88	89
<b>TOTAL NON-RESIDENTIAL</b>	<b>1,016</b>	<b>1,050</b>	<b>1,077</b>
ROADS	183	157	159
BRIDGES, RAILWAYS, HARBOURS	283	305	225
ELECTRICITY, PIPELINES	112	125	108
WATER AND SEWERAGE	134	145	127
TELECOMMUNICATIONS	223	160	162
RECREATION AND OTHER	90	100	104
<b>TOTAL ENGINEERING</b>	<b>1,025</b>	<b>992</b>	<b>885</b>
HEAVY INDUSTRY INCL. MINING	0	0	0
<b>TOTAL FORECAST</b>	<b>3,738</b>	<b>3,730</b>	<b>3,761</b>

Source: ACIF & RLB.

# CANBERRA DEVELOPMENT CONSTRUCTION WORK DONE

## ANNUAL VALUE OF CONSTRUCTION WORK DONE IN AUSTRALIAN CAPITAL TERRITORY

YEAR ENDING	RESIDENTIAL	NON-RESIDENTIAL	ENGINEERING	TOTAL CONSTRUCTION
JUN-1990	275	401	159	<b>835</b>
JUN-1991	278	414	138	<b>830</b>
JUN-1992	385	333	167	<b>886</b>
JUN-1993	448	258	188	<b>893</b>
JUN-1994	441	260	167	<b>868</b>
JUN-1995	402	298	178	<b>878</b>
JUN-1996	295	316	141	<b>752</b>
JUN-1997	261	402	136	<b>799</b>
JUN-1998	218	383	151	<b>751</b>
JUN-1999	273	375	171	<b>820</b>
JUN-2000	395	265	273	<b>933</b>
JUN-2001	296	282	208	<b>787</b>
JUN-2002	396	287	200	<b>883</b>
JUN-2003	581	335	245	<b>1,160</b>
JUN-2004	628	316	245	<b>1,189</b>
JUN-2005	606	371	247	<b>1,224</b>
JUN-2006	643	879	270	<b>1,792</b>
JUN-2007	730	1,193	291	<b>2,214</b>
JUN-2008	692	1,120	370	<b>2,182</b>
JUN-2009	780	1,220	364	<b>2,363</b>
JUN-2010	1,097	1,293	404	<b>2,794</b>
JUN-2011	1,390	1,333	769	<b>3,491</b>
JUN-2012	1,502	1,285	830	<b>3,617</b>
JUN-2013	1,417	992	863	<b>3,271</b>
JUN-2014	1,301	712	898	<b>2,910</b>
JUN-2015	1,392	779	691	<b>2,862</b>
JUN-2016	1,307	912	710	<b>2,929</b>
JUN-2017	1,643	915	944	<b>3,502</b>
JUN-2018	1,627	1,136	963	<b>3,726</b>

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

# CANBERRA DEVELOPMENT CONSTRUCTION WORK DONE

## ANNUAL VALUE OF NON-RESIDENTIAL BUILDING WORK DONE IN AUSTRALIAN CAPITAL TERRITORY

YEAR ENDING	COMMERCIAL	INDUSTRIAL	RETAIL	EDUCATION	HEALTH
JUN-2002	147	10	43	33	13
JUN-2003	175	10	40	57	12
JUN-2004	142	14	17	84	7
JUN-2005	178	11	40	95	6
JUN-2006	440	28	154	95	28
JUN-2007	761	50	117	77	13
JUN-2008	541	32	123	163	18
JUN-2009	721	40	81	180	17
JUN-2010	761	29	50	338	28
JUN-2011	577	53	147	414	33
JUN-2012	596	39	154	242	133
JUN-2013	392	39	66	226	119
JUN-2014	259	39	77	121	82
JUN-2015	206	33	115	146	33
JUN-2016	223	34	168	182	102
JUN-2017	229	33	126	171	166
JUN-2018	307	54	168	313	52

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

AGED CARE	HOTELS	ENTERTAINMENT & RECREATION	OTHER	TOTAL
0	7	24	9	<b>287</b>
3	2	30	7	<b>335</b>
1	1	46	4	<b>316</b>
6	9	16	8	<b>371</b>
18	47	61	7	<b>879</b>
25	26	80	43	<b>1,193</b>
29	12	122	79	<b>1,120</b>
44	4	91	43	<b>1,220</b>
3	19	49	16	<b>1,293</b>
6	32	28	42	<b>1,333</b>
16	42	32	32	<b>1,285</b>
14	61	35	39	<b>992</b>
20	28	33	53	<b>712</b>
41	73	36	97	<b>779</b>
41	19	46	96	<b>912</b>
27	29	67	72	<b>915</b>
32	35	88	87	<b>1,136</b>

# CANBERRA DEVELOPMENT CONSTRUCTION WORK DONE

## ANNUAL VALUE OF RESIDENTIAL BUILDING WORK DONE IN AUSTRALIAN CAPITAL TERRITORY

YEAR ENDING	NEW HOUSES	NEW APARTMENTS & SEMI DETACHED HOUSING	ALTERATIONS & ADDITIONS INCLUDING CONVERSIONS	TOTAL RESIDENTIAL
JUN-1990	148	84	43	<b>275</b>
JUN-1991	133	104	41	<b>278</b>
JUN-1992	200	128	57	<b>385</b>
JUN-1993	242	146	59	<b>448</b>
JUN-1994	206	168	68	<b>441</b>
JUN-1995	183	150	69	<b>402</b>
JUN-1996	150	90	55	<b>295</b>
JUN-1997	137	64	61	<b>261</b>
JUN-1998	121	42	55	<b>218</b>
JUN-1999	157	51	64	<b>273</b>
JUN-2000	206	100	89	<b>395</b>
JUN-2001	170	72	54	<b>296</b>
JUN-2002	190	127	79	<b>396</b>
JUN-2003	278	214	89	<b>581</b>
JUN-2004	331	188	110	<b>628</b>
JUN-2005	244	263	100	<b>606</b>
JUN-2006	270	266	108	<b>643</b>
JUN-2007	317	308	105	<b>730</b>
JUN-2008	336	235	122	<b>692</b>
JUN-2009	367	309	104	<b>780</b>
JUN-2010	535	432	129	<b>1,097</b>
JUN-2011	567	663	159	<b>1,390</b>
JUN-2012	510	843	148	<b>1,502</b>
JUN-2013	586	694	137	<b>1,417</b>
JUN-2014	528	654	119	<b>1,301</b>
JUN-2015	544	723	125	<b>1,392</b>
JUN-2016	396	777	134	<b>1,307</b>
JUN-2017	445	1,072	127	<b>1,643</b>
JUN-2018	462	1,041	124	<b>1,627</b>

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



# CANBERRA DEVELOPMENT DWELLING COMMENCEMENTS

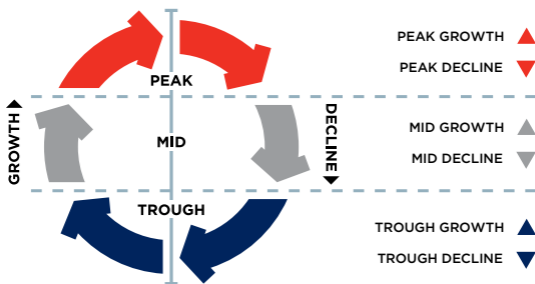
## ANNUAL NUMBER OF DWELLING COMMENCEMENTS IN AUSTRALIAN CAPITAL TERRITORY

YEAR ENDING	NEW HOUSES	NEW APARTMENTS & SEMI DETACHED HOUSING	TOTAL RESIDENTIAL
JUN-1990	1,473	928	2,433
JUN-1991	1,115	1,061	2,200
JUN-1992	2,029	1,501	3,547
JUN-1993	2,417	1,993	4,460
JUN-1994	1,763	2,383	4,164
JUN-1995	1,533	1,194	2,732
JUN-1996	1,290	927	2,287
JUN-1997	1,157	729	1,951
JUN-1998	1,022	236	1,260
JUN-1999	1,364	615	2,112
JUN-2000	1,460	948	2,479
JUN-2001	1,008	634	1,643
JUN-2002	1,178	1,186	2,373
JUN-2003	1,777	1,361	3,139
JUN-2004	1,458	1,432	2,896
JUN-2005	954	1,500	2,458
JUN-2006	1,033	797	1,835
JUN-2007	1,250	992	2,244
JUN-2008	1,281	963	2,248
JUN-2009	1,326	1,303	2,640
JUN-2010	2,203	2,221	4,425
JUN-2011	1,869	3,226	5,106
JUN-2012	1,696	2,887	4,595
JUN-2013	1,872	2,623	4,499
JUN-2014	1,616	2,617	4,235
JUN-2015	1,538	2,508	4,052
JUN-2016	1,031	4,037	5,073
JUN-2017	1,143	3,659	4,803
JUN-2018	1,160	3,823	4,987

Source: ABS 8752.0 (Number).

# CANBERRA 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.

CANBERRA	Q2 2016	Q4 2016	Q2 2017	Q4 2017	Q2 2018	Q4 2018
HOUSES	▲	▲	▲	▲	▲	▼
APARTMENTS	▲	▲	▲	▲	▲	▲
OFFICES	▲	▲	▲	▲	▲	▲
INDUSTRIAL	▼	▼	▼	▼	▼	▲
RETAIL	▼	▼	▼	▼	▼	▼
HOTEL	▼	▼	▼	▼	▲	▲
CIVIL	▼	▲	▲	▲	▲	▼

# BENCHMARKS

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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 2018. 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	110
COFFS HARBOUR	100	GLADSTONE	125	BROOME	145
NEWCASTLE	99	GOLD COAST	95	BUNBURY	103
ORANGE	106	MACKAY	114	CARNARVON	145
TAMWORTH	102	SUNSHINE COAST	95	ESPERANCE	125
WAGGA WAGGA	106	TOWNSVILLE	108	GERALDTON	105
WOLLONGONG	100			KALGOORLIE	125
				KUNUNURRA	165
				PORT HEDLAND	160
				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 2018

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:

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

$C_{cc}$  = 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.  $\left(\frac{100}{83}\right)$  and Perth is 17.4% cheaper than Sydney i.e.  $\left(\frac{100}{121}\right)$

If the tendered price of a building in Sydney was \$1,000,000, the equivalent cost in Perth would be \$830,000 i.e.  $1,000,000 \times \left(\frac{100}{83}\right)^{-1}$  and conversely a \$1,000,000 building in Perth would cost \$1,210,000 in Sydney, i.e.  $1,000,000 \times \left(\frac{100}{121}\right)^{-1}$

ADELAIDE 100		BRISBANE 100		CANNBERRA 100		DARWIN 100		GOLD COAST 100	
BNE	95	ADE	105	ADE	93	ADE	93	ADE	113
CAN	107	CAN	113	BNE	89	BNE	88	BNE	107
DAR	107	DAR	113	DAR	100	CAN	100	CAN	121
GC	89	GC	93	GC	83	GC	83	DAR	121
MEL	105	MEL	110	MEL	98	MEL	98	MEL	118
PER	99	PER	104	PER	92	PER	92	PER	112
SYD	119	SYD	126	SYD	111	SYD	111	SYD	135
TVE	99	TVE	105	TVE	93	TVE	93	TVE	112

MELBOURNE 100		PERTH 100		SYDNEY 100		TOWNSVILLE 100	
ADE	96	ADE	101	ADE	84	ADE	101
BNE	91	BNE	96	BNE	79	BNE	95
CAN	102	CAN	108	CAN	90	CAN	108
GC	85	GC	90	GC	74	GC	89
DAR	103	DAR	109	DAR	90	DAR	108
PER	94	MEL	106	MEL	88	MEL	105
SYD	114	SYD	121	PER	83	PER	99
TVE	95	TVE	101	TVE	83	SYD	120

## 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 %
<b>PRESTIGE</b>			
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
<b>INVESTMENT</b>			
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
<b>INVESTMENT, OTHER THAN</b>			
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 <sup>3</sup>		AVE KG/M <sup>3</sup>
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
<b>RETAINING WALLS</b>			
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.

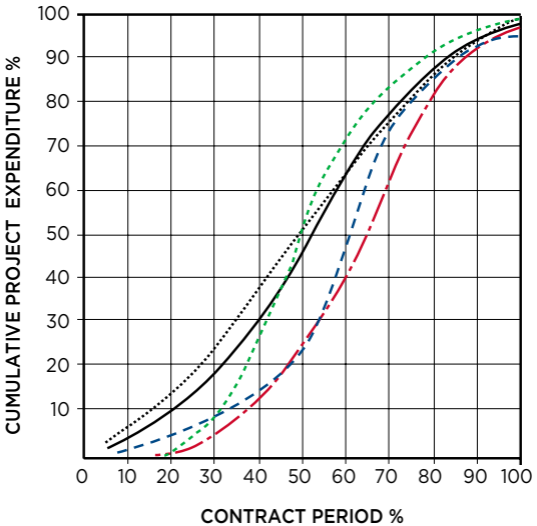
PRELIMINARIES	40	10	50
DEMOLISHER	85		15
EXCAVATOR	32	15	53
PILER	20	50	30
IN SITU CONCRETOR	25		75
FORMWORKER	70		30
REINFORCEMENT FIXER	20		80
PRECAST CONCRETOR	20		80
BRICKLAYER & BLOCKLAYER	50		50
MASON	10		90
ASPHALTOR	40		60
STRUCTURAL STEELWORK	60		40
METALWORKER	20		80
SUSPENDED CEILING FIXER	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.



- ..... BUILDERS WORK
- MECHANICAL SERVICES
- LIFT SERVICES
- .-.-.- ELECTRICAL SERVICES
- OVERALL PROJECT



# 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 (M<sup>2</sup>).

#### **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 M<sup>2</sup> 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, SBEncr, 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:

- a) needs to demonstrate effective and efficient delivery of FM that supports the objectives of the demand organization
- b) aims to consistently meet the needs of interested parties and applicable requirements
- c) 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.

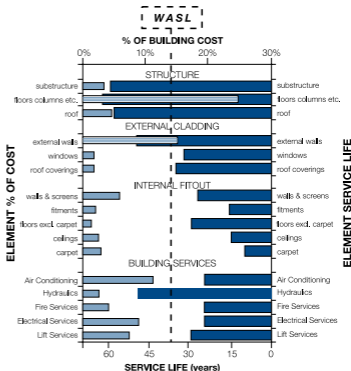
# ASSETS AND FACILITIES USEFUL LIFE ANALYSIS

## 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.

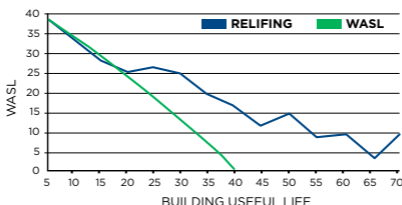
## WEIGHTED AVERAGE SERVICE LIFE

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.

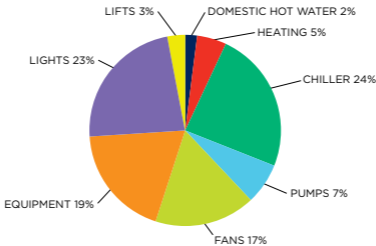
The level of recovery of outgoing is normally governed and regulated by leases and other agreements with tenants.

The cost of outgoing varies depending upon:

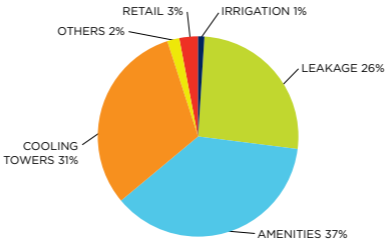
- the level of management and services provided
- lease agreements
- quality, type and efficiency of the building
- location and statutory regimes applicable

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

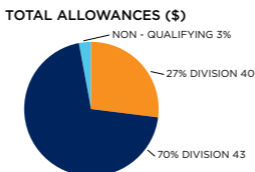
Assets with a limited effective life that are reasonably expected to decline in value. The decline in value is based on the cost and effective life of the depreciating asset, not its actual change in value. Examples of these are carpet, air conditioning plant, lights etc.

## 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 TR2018/4 which came into effect on the 1st July 2018. 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



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 %
<b>THE FOLLOWING LIST GIVES A SAMPLE OF ELIGIBLE DEPRECIATING ASSETS.</b>		
<b>OFFICE BUILDING</b>		
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
<b>HOTELS, MOTELS</b>		
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
<b>SHOPPING CENTRES</b>		
Generally, the list for office buildings will apply with the following additions:		
FLOATING TIMBER FLOORS	10	20
FURNITURE, FREESTANDING	10	20
<b>INDUSTRIAL</b>		
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
<b>RESIDENTIAL</b>		
Only for assets continuously owned prior to 10/05/17 or new assets (not used) purchased from 10/05/17.		
<b>FLOOR COVERINGS:</b>		
CARPET	10	20
FLOATING TIMBER	6.667	13.333
<b>Hot Water Systems (excluding piping):</b>		
ELECTRIC AND GAS	8.333	16.667
SOLAR	6.667	13.333
<b>Miscellaneous:</b>		
INTERCOM SYSTEM ASSETS	10	20
WINDOW BLINDS	10	20
ROOM AIR CONDITIONING	10	20
<b>Kitchen Assets:</b>		
COOKTOPS, OVENS, RANGEHOODS	8.333	16.667
DISHWASHERS, WASHING MACHINES, CLOTHES DRYERS	10	20

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Oceania	84
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# OFFICES AROUND THE WORLD

## AUSTRALIA

### ADELAIDE

Rider Levett Bucknall SA Pty Ltd  
Level 1, 8 Leigh Street,  
Adelaide, SA 5000  
T: +61 8 8100 1200  
E: adelaide@au.rlb.com  
Contact: Andrew Suttie

### BRISBANE

Rider Levett Bucknall QLD Pty Ltd  
Level 13, 10 Eagle Street,  
Brisbane, QLD 4000  
T: +61 7 3009 6933  
E: brisbane@au.rlb.com  
Contact: Dave Stewart

### CAIRNS

Rider Levett Bucknall QLD Pty Ltd  
Suite 7, 1st Floor, Cairns  
Professional Centre,  
92-96 Pease Street,  
Cairns, QLD 4870  
T: +61 7 4032 1533  
E: cairns@au.rlb.com  
Contact: Nicholas Duncan

### CANBERRA

Rider Levett Bucknall ACT Pty Ltd  
16 Bentham Street,  
Yarralumla, ACT 2600  
T: +61 2 6281 5446  
E: canberra@au.rlb.com  
Contact: Mark Chappe

### COFFS HARBOUR

Rider Levett Bucknall NSW Pty Ltd  
Level 1, 9 Park Avenue,  
Coffs Harbour, NSW 2450  
T: +61 2 4940 0000  
E: northernnew@au.rlb.com  
Contact: Mark Hocking

### DARWIN

Rider Levett Bucknall NT Pty Ltd  
Level 4, 62 Cavenagh Street,  
Darwin, NT 0800  
T: +61 8 8941 2262  
E: darwin@au.rlb.com  
Contact: Paul Lassemillante

### GOLD COAST

Rider Levett Bucknall QLD Pty Ltd  
45 Nerang Street,  
Southport, QLD 4215  
T: +61 7 5595 6900  
E: goldcoast@au.rlb.com  
Contact: Mark Burow

### MELBOURNE

Rider Levett Bucknall VIC Pty Ltd  
Level 13, 380 St. Kilda Road,  
Melbourne, VIC 3004  
T: +61 3 9690 6111  
E: melbourne@au.rlb.com  
Contact: Ewen McDonald

### NEWCASTLE

Rider Levett Bucknall NSW Pty Ltd  
63 Lindsay Street,  
Hamilton, NSW 2303  
T: +61 2 4940 0000  
E: newcastle@au.rlb.com  
Contact: Mark Hocking

### PERTH

Rider Levett Bucknall WA Pty Ltd  
Level 9, 160 St Georges Tce,  
Perth, WA 6000  
T: +61 8 9421 1230  
E: perth@au.rlb.com  
Contact: Mark Bendotti

### SUNSHINE COAST

Rider Levett Bucknall QLD Pty Ltd  
Suite 11, The Boarding Offices  
100-102 Brisbane Road  
Mooloolaba, QLD 4557  
T: +61 7 5443 3622  
E: suncoast@au.rlb.com  
Contact: David Stewart

### SYDNEY

Rider Levett Bucknall NSW Pty Ltd  
Level 19, 141 Walker Street,  
North Sydney, NSW 2060  
T: +61 2 9922 2277  
E: sydney@au.rlb.com  
Contact: Matthew Harris

### TOWNSVILLE

Rider Levett Bucknall QLD Pty Ltd  
Level 1, 45 Eyre Street, North Ward,  
Townsville, QLD 4810  
T: +61 7 4771 5718  
E: townsville@au.rlb.com  
Contact: Chris Marais

## NEW ZEALAND

### AUCKLAND

Rider Levett Bucknall Auckland Ltd  
Level 16, Vero Centre, 48 Shortland  
Street, Auckland 1141  
T: +64 9 309 1074  
E: auckland@nz.rlb.com  
Contact: Stephen Gracey

### CHRISTCHURCH

Rider Levett Bucknall Christchurch  
Ltd  
Level 1, 254 Montreal Street,  
Christchurch 8013  
T: +64 3 354 6873  
E: christchurch@nz.rlb.com  
Contact: Neil O'Donnell

### HAMILTON

Rider Levett Bucknall Hamilton  
Level 3, 103 London Street,  
Hamilton 3204  
T: +64 7 839 1306  
E: hamilton@nz.rlb.com  
Contact: Richard Anderson

## **PALMERSTON NORTH**

Rider Levett Bucknall  
Palmerston North Ltd  
Suite 1, Level 1, 219 Broadway  
Avenue, Palmerston North 4440  
T: +64 6 357 0326  
E: palmerstonnorth@nz.rlb.com  
Contact: Michael Craine

## **QUEENSTOWN**

Rider Levett Bucknall Otago Ltd  
Level 3, The Mountaineer Building,  
32 Rees Street, Queenstown 9348  
T: +64 3 409 0325  
E: queenstown@nz.rlb.com  
Contact: Tony Tudor

## **TAURANGA**

Rider Levett Bucknall Auckland Ltd  
Ground Floor, 3/602 Cameron  
Road, Tauranga 3141  
T: +64 7 579 5873  
E: tauranga@nz.rlb.com  
Contact: Richard Anderson

## **WELLINGTON**

Rider Levett Bucknall  
Wellington Ltd  
Level 1, 279 Willis Street,  
Wellington 6011  
T: +64 4 384 9198  
E: wellington@nz.rlb.com  
Contact: Tony Sutherland

## **AFRICA**

### **CAPE TOWN**

9th Floor, 22 Bree Street,  
Cape Town, South Africa  
T: +27 21 418 9977  
E: martin.meinesz@za.rlb.com  
Contact: Martin Meinesz

### **DURBAN**

77 Richefond Circle, Ridgeside  
Office Park, Suite 201, Umhlanga  
Ridge, Durban, 4319, South Africa  
T: +27 31 072 0999  
E: evan.sim@za.rlb.com  
Contact: Evan Sim

### **GABORONE (BOTSWANA)**

Unit 32, Kgale Mews,  
Gaborone, Botswana  
T: +27 72 622 9852  
E: fred.selolwane@bw.rlb.com  
Contact: Fred Selolwane

### **JOHANNESBURG**

Mac Mac Building, Magwa Crescent  
West, Waterfall City Midrand,  
Johannesburg 2090  
T: +27 11 548 4000  
E: leon.cronje@za.rlb.com  
Contact: Leon Cronje

## **MAPUTO (MOZAMBIQUE)**

Sommerschild 1, Maputo,  
Mozambique  
T: +27 12 348 1040  
E: christiaan.rademan@mu.rlb.com  
Contact: Christiaan Rademan

## **PRETORIA**

1st Floor, Banking Court, Menlyn  
Maine Central Square, Cnr Aramist  
and Corobay Avenue, Waterkloof  
Glen, Pretoria  
T: +27 12 348 1040  
E: nicolas.sheard@za.rlb.com  
Contact: Nicolas Sheard

## **SAINT PIERRE (MAURITIUS)**

Vivea Business Park, Moka  
Mauritius  
T: +230 5767 8815  
E: marvind.beetul@mu.rlb.com  
Contact: Marvind Beetul

## **STELLENBOSCH**

Office 11, Rouxcor House, 37 Mark  
Street, Stellenbosch,  
7599, South Africa  
T: +27 21 861 4880  
E: lichelle.neethling@za.rlb.com  
Contact: Lichelle Neethling  
(du Plessis)

## **MIDDLE EAST**

### **ABU DHABI**

Mezzanine Level, Al Mazrouei  
Building, Muroor Road, Abu Dhabi,  
United Arab Emirates  
T: +971 2 643 3691  
E: sam.barakat@ae.rlb.com  
Contact: Sam Barakat

### **DOHA**

Office 32, Second Floor, Al Mirqab  
Complex, Al Mirqab Al Jadeed  
Street, Al Naser Area, Doha, Qatar  
T: +971 4016 2777  
E: dean.mann@ae.rlb.com  
Contact: Dean Mann

### **DUBAI**

Office 2302 Marina Plaza, Dubai  
Marina, Dubai, United Arab  
Emirates  
T: +971 4 339 7444  
E: natalie.stockman@ae.rlb.com  
Contact: Natalie Stockman

### **MUSCAT**

Building No. 287,  
18 November Road,  
North Azaiba, Sultanate of Oman  
T: +971 2 643 3691  
E: sam.barakat@ae.rlb.com  
Contact: Sam Barakat

# OFFICES AROUND THE WORLD

## RIYADH

Unit F43 - First Floor, Localizer Mall, Prince Mohammad Bin Abdulaziz Road (Tahiyah Street), Riyadh 11492, Saudi Arabia  
T: +966 11 217 555 1  
E: john.prior@sa.rlb.com  
Contact: John Prior

## UNITED KINGDOM

### BIRMINGHAM

Cathedral Court, 15 Colmore Row, Birmingham, B3 2BH  
T: +44 121 503 1500  
E: adam.ellis-morgan@uk.rlb.com  
Contact: Adam Ellis-Morgan

### BRISTOL

Embassy House, 86 Queen's Avenue, Bristol, BS8 1SB  
T: +44 117 974 1122  
E: jackie.pinder@uk.rlb.com  
Contact: Jackie Pinder

### CUMBRIA

44 Springfield Road, Egremont, Cumbria, CA22 2TQ  
T: +44 1925 851 787  
E: deryck.barton@uk.rlb.com  
Contact: Deryck Barton

### LEEDS

4D, Platform, New Station Street, Leeds LS1 4JB  
T: +44 113 457 3225  
E: matt.summerhill@uk.rlb.com  
Contact: Matt Summerhill

### LIVERPOOL

Suite 620, 6th Floor, The Plaza, 100 Old Hall Street, Liverpool L3 9QJ, United Kingdom  
T: +44 077 6428 5920  
E: jason.brownlee@uk.rlb.com  
Contact: Jason Brownlee

### LONDON

2nd Floor, 60 New Broad Street, London, EC2M 1JJ  
T: +44 20 7398 8300  
E: nick.eliot@uk.rlb.com  
Contact: Nick Eliot

### MANCHESTER

1 King Street, Manchester, M2 6AW  
T: +44 161 868 7700  
E: russell.bolton@uk.rlb.com  
Contact: Russell Bolton

### SHEFFIELD

6th Floor Orchard Lane Wing, Fountain Precinct, Balm Green, Sheffield, S1 2JA  
T: +44 114 273 3300  
E: matt.summerhill@uk.rlb.com  
Contact: Matt Summerhill

## THAMES VALLEY

1000 Eskdale Road, Winnersh Triangle, Wokingham, Berkshire, RG41 5TS  
T: +44 118 974 3600  
E: michael.righton@uk.rlb.com  
Contact: Michael Righton

## WARRINGTON

Ground South Wing, 401 Faraday Street, Birchwood Park, Warrington, Cheshire WA3 6GA  
T: +44 1925 851787  
E: deryck.barton@uk.rlb.com  
Contact: Deryck Barton

## CHINA

### BEIJING

Room 1803-1809, 18th Floor, East Ocean Centre, 24A Jian Guo Men Wai Avenue, Chaoyang District, Beijing 100004, China  
T: +86 10 6515 5818  
E: sm.tuen@cn.rlb.com  
Contact: Simon Tuen

### CHENGDU

29th Floor, Square One, No. 18 Dongyu Street, Jinjiang District, Chengdu 610016, Sichuan Province, China  
T: +86 28 8670 3382  
E: eric.lau@cn.rlb.com  
Contact: Eric Lau

### CHONGQING

Room 3007-3008, 30th Floor, Metropolitan Tower, No. 68 Zourong Road, Central District, Chongqing 400010, China  
T: +86 28 8670 3382  
E: eric.lau@cn.rlb.com  
Contact: Eric Lau

### DALIAN

Room 1103, 11th Floor, Xiwang Tower, No. 136 Zhongshan Road, Zhongshan District, Dalian 116001, Liaoning Province, China  
T: +86 10 6515 5818  
E: sm.tuen@cn.rlb.com  
Contact: Simon Tuen

### GUANGZHOU

Room 1302-1308, Central Tower, 5 Xiancun Road, Guangzhou 510623 Guangdong Province  
T: +86 20 8732 1801  
E: danny.chow@cn.rlb.com  
Contact: Danny Chow



**GUIYANG**

Room E, 12th Floor, Fuzhong International Plaza,  
126 Xin Hua Road, Guiyang  
550002, Guizhou Province, China  
T: + 86 20 8732 1801  
E: danny.chow@cn.rlb.com  
Contact: Danny Chow

**HAIKOU**

Room 1705, 17th Floor,  
Fortune Center, 38 Da Tong Road,  
Haikou 570102,  
Hainan Province, China  
T: +852 2823 1828  
E: stephen.lai@hk.rlb.com  
Contact: Stephen Lai

**HANGZHOU**

Room 1603, 16th Floor, North Tower, Modern City Center, No. 161 Shao Xing Road, Xia Cheng District, Hangzhou 310004, Zhejiang Province, China  
T: + 86 21 6330 1999  
E: iris.lee@cn.rlb.com  
Contact: Iris Lee

**HONG KONG**

20th Floor, Eastern Central Plaza, 3 Yiu Hing Road, Shaukeiwan  
T: +852 2823 1823  
E: kenneth.kwan@hk.rlb.com  
Contact: Kenneth Kwan

**MACAU**

Alameda Dr. Carlos D'Assumpcao, No. 398 Edificio CNAC 9 Andar, I-J Macau SAR  
T: +852 2823 1830  
E: kenneth.kwan@hk.rlb.com  
Contact: Kenneth Kwan

**NANJING**

Room 1201, South Tower, Jinmao Plaza, 201 Zhong Yang Road, Nanjing 210009, Jiang Su Province, China  
T: +86 21 6330 1999  
E: eric.fong@cn.rlb.com  
Contact: Eric Fong

**NANNING**

Room 2203, Block B Resources Building No. 136 Minzu Road Nanning 530000 Guangxi, China  
T: +86 20 8732 1801  
E: danny.chow@cn.rlb.com  
Contact: Danny Chow

**SHANGHAI**

22nd Floor, Greentech Tower, 436 Hengfeng Road, Jingan District, Shanghai 200070, China  
T: +86 21 6330 1999  
E: wq.wang@cn.rlb.com  
Contact: W.Q. Wang

**SHENYANG**

25th Floor, Tower A, President Building, No. 69 Heping North Avenue, Heping District, Shenyang 110003, Liaoning Province, China  
T: +86 10 6515 5818  
E: sm.tuen@cn.rlb.com  
Contact: Simon Tuen

**SHENZHEN**

Room 4510-4513, 45th Floor, Shun Hing Square Diwang Commercial Centre, 5002 Shennan Road East, Shenzhen 518001, Guangdong Province, China  
T: +852 2823 1830  
E: kenneth.kwan@hk.rlb.com  
Contact: Kenneth Kwan

**TIANJIN**

Room 502, 5th Floor, Tianjin International Building, 75 Nanjing Road, Heping District, Tianjin 300050, China  
T: +852 2823 1828  
E: stephen.lai@hk.rlb.com  
Contact: Stephen Lai

**WUHAN**

Room 2301, 23rd Floor, New World International Trade Centre, No. 568 Jianshe Avenue, Wuhan 430022, Hubei Province, China  
T: +852 2823 1828  
E: stephen.lai@hk.rlb.com  
Contact: Stephen Lai

**WUXI**

Juna Plaza, Wuxi 214000, Jiangsu Province, China  
T: +86 21 6330 1999  
E: wq.wang@cn.rlb.com  
Contact: W.Q. Wang

**XIAMEN**

Room 2216, The Bank Centre, 189 Xiahe Road, Xiamen 361000, China  
T: +86 21 6330 1999  
E: eric.fong@cn.rlb.com  
Contact: Eric Fong

**XIAN**

Room 1506, 15th Floor, Chang'an Metropolis Center, No.88 Nanguan Zheng Street, Beilin District, Xian 710068, Shaanxi Province, China  
T: +86 28 8670 3382  
E: eric.lau@cn.rlb.com  
Contact: Eric Lau

# OFFICES AROUND THE WORLD

## ZHUHAI

Room 1401-1402, 14th Floor,  
Taifook International Finance  
Building, No. 1199 Jiu Zhuo  
Road East, Jida, Zhuhai 519015,  
Guangdong Province, China  
T: +86 20 8732 1801  
E: danny.chow@cn.rlb.com  
Contact: Danny Chow

## INDONESIA

### JAKARTA

Jl. Jend. Surdirman Kav. 45-46  
Sampoerna Strategic Square South  
Tower, Level 19, Jakarta 12930,  
Indonesia  
T: +62 21 5795 2308  
E: widitomo.puntoadi@id.rlb.com  
Contact: Widitomo Puntoadi

## MALAYSIA

### KUALA LUMPUR

B2-6-3 Solaris Dutamas,  
No 1 Jalan Dutamas,  
50480 Kuala Lumpur, Malaysia  
T: +60 3 6207 9991  
E: kf.lai@my.rlb.com  
Contact: Dato' Lai Kar Fook

## MYANMAR

### YANGON

Union Business Center,  
Nat Mauk St, Yangon,  
Myanmar (Burma)  
T: +95 1 860 3448 (Ext 4004)  
E: serene.wong@vn.rlb.com  
Contact: Serene Wong

## PHILIPPINES

### BACOLOD CITY

Suite 403 & 404, 4th Floor  
Carmen Building, Lizares Avenue  
Bacolod City, Negros Occidental  
6100 Philippines  
T: +63 34 432 1344  
E: armando.baria@ph.rlb.com  
Contact: Armando Baria

### CAGAYAN DE ORO

Rm. 702, TTK Tower, Don Apolinar  
Velez Street, Bgy. 14 Cagayan De  
Oro City, Misamis Oriental,  
9000 Philippines  
T: +63 88 850 4105  
E: rey.clemena@ph.rlb.com  
Contact: Raymundo Clemena

## CEBU

Suite 601 & 602, PDI Condominium,  
Arch. Bishop, Reyes Avenue  
Corner J. Panis Street, Banilad,  
Cebu City 1604, Philippines  
T: +63 38 502 8660  
E: joy.marasigan@ph.rlb.com  
Contact: Jolly Joy Cantero

## CLARK

Units 202 - 203, Baronesa Place  
Mc Arthur Hi-way  
City of Mabalacat Angeles  
Pampanga  
T: +63 916 794 9156  
E: marie.tendenilla@ph.rlb.com  
Contact: Marie E. Tendenilla

## DAVAO

Room 307 & 308, 3rd Floor Coco  
Life Building, C.M. Recto Street,  
corner J. Palma Gil St., Davao City,  
8000 Philippines  
T: +63 82 297 4589  
E: armando.baria@ph.rlb.com  
Contact: Armando Baria

## ILOILO

Uy Bico Building, Yulo Street,  
Iloilo City, 5000 Philippines  
T: +63 33 320 0945  
E: armando.baria@ph.rlb.com  
Contact: Armando Baria

## METRO MANILA

Corazon Clemeña Compound,  
Bldg. 3 No. 54 Danny Floro Street,  
Bagong Ilog, Pasig City 1600,  
Philippines  
T: +63 2 234 0141  
E: coraballard@ph.rlb.com  
Contact: Corazon Ballard

## PANGLAO, BOHOL

Sitio Cascajo, Looc, Panglao Bohol,  
6340 Philippines  
T: +63 38 502 8660  
E: rlb@ph.rlb.com  
Contact: Corazon Ballard

## STA. ROSA CITY, LAGUNA

Unit 201, Brain Train Center,  
Lot 11, Blk 3 Sta Rosa,  
Business Park, Greenfield Bgy.  
Don Jose, Sta. Rosa  
Laguna 4026 Philippines  
T: +63 917 572 9533  
E: pedro.yambao@ph.rlb.com  
Contact: Pedro J. Yambao, Jr.

## SUBIC

The Venue Building, Unit 418 Lot C-5, Commercial Area, SBF Park Phase 1, Subic Bay Freeport Zone, Zambales  
T: +63 917 517 3962  
E: joselito.mendoza@ph.rlb.com  
Contact: Joselito Mendoza

## SINGAPORE

### SINGAPORE

911 Bukit Timah Road Level 3  
Singapore 589622  
T: +65 6339 1500  
E: silas.loh@sg.rlb.com  
Contact: Silas Loh

## SOUTH KOREA

### JEJU

1084, Seogwang-ri, Andeok-myeon, Seogwipo-si, Jeju-do, Korea  
T: +852 2823 1828  
E: stephen.lai@hk.rlb.com  
Contact: Stephen Lai

### SEOUL

Yeoksam-Dong, Daon Building, 8th Floor, 8, Teheran-ro 27-gil, Gangnam-Gu, Seoul, 06141 Korea  
T: +852 2823 1828  
E: stephen.lai@hk.rlb.com  
Contact: Stephen Lai

## VIETNAM

### HO CHI MINH CITY

Centec Tower, 16th Floor, Unit 1603, 72-74 Nguyen Thi Minh Khai Street, Ward 6, District 3 Ho Chi Minh City, Vietnam  
T: +84 83 823 8070  
E: cb.ong@vn.rlb.com  
Contact: Ong Choon Beng

## CANADA

### CALGARY

Campana Place, 200-609 14th Street NW, Calgary, Alberta T2N 2A1, Canada  
T: +1 905 827 8218  
E: joe.pendlebury@ca.rlb.com  
Contact: Joe Pendlebury

### TORONTO

1155 North Service Road West, Unit 5, Oakville, Ontario, L6M 3E3  
T: +1 905 827 8218  
E: joe.pendlebury@ca.rlb.com  
Contact: Joe Pendlebury

## CARIBBEAN

### ST LUCIA

Desir Ave, Saint Lucia  
T: +1 758 452 2125  
E: mark.williamson@lc.rlb.com  
Contact: Mark Williamson

## UNITED STATES OF AMERICA

### AUSTIN

111 Congress Avenue, Suite 400, Austin, Texas 78701  
T: +1 602 443 4848  
E: ward.simpson@us.rlb.com  
Contact: Ward Simpson

### BOSTON

Two Financial Center, Suite 810, 60 South Street, Boston, Massachusetts 02111  
T: +1 617 737 9339  
E: grant.owen@us.rlb.com  
Contact: Grant Owen

### CHICAGO

141 W. Jackson Boulevard, Suite 3810, Chicago, Illinois 60604  
T: +1 312 819 4250  
E: chris.harris@us.rlb.com  
Contact: Chris Harris

### DENVER

1675 Larimer Street, Suite 470, Denver, Colorado 80202  
T: +1 720 904 1480  
E: peter.knowles@us.rlb.com  
Contact: Peter Knowles

### HILO

80 Pauahi Street, Suite 104, Hilo, Hawaii 96720  
T: +1 808 883 3379  
E: kevin.mitchell@us.rlb.com  
Contact: Kevin Mitchell

### HONOLULU

American Savings Bank Tower, 1001 Bishop Street, Suite 2690, Honolulu, Hawaii 96813  
T: +1 808 521 2641  
E: maelyn.uyehara@us.rlb.com  
Contact: Maelyn Uyehara

### LAS VEGAS

3753 Howard Hughes, Parkway, Suite 211, Las Vegas, Nevada 89169  
T: +1 702 227 8818  
E: simon.james@us.rlb.com  
Contact: Simon James

# OFFICES AROUND THE WORLD

## LOS ANGELES

The Bloc, 700 South Flower Street,  
Suite 630 Los Angeles,  
California 90017  
T: +1 213 689 1103  
E: philip.mathur@us.rlb.com  
Contact: Philip Mathur

## MAUI

300 Ohukai Road, Building B,  
Kihei, Hawaii 96753  
T: +1 808 883 3379  
E: kevin.mitchell@us.rlb.com  
Contact: Kevin Mitchell

## NEW YORK

31 Penn Plaza, 132 West 31st Street,  
15th Floor, New York,  
New York 10001  
T: +1 646 821 4788  
E: michael.moynihan@us.rlb.com  
Contact: Michael Moynihan

## PHOENIX

4343 East Camelback Road,  
Suite 350, Phoenix, Arizona 85018  
T: +1 602 443 4848  
E: scott.macperhson@us.rlb.com  
Contact: Scott Macpherson

## PORTLAND

Brewery Block 2, 1120 NW Couch  
Street, Suite 730, Portland,  
Oregon 97209  
T: +1 503 226 2730  
E: graham.roy@us.rlb.com  
Contact: Graham Roy

## SAN FRANCISCO

735 Montgomery Street, Suite 350,  
San Francisco, CA 94111  
T: +1 415 362 2613  
E: catherine.stoupas@us.rlb.com  
Contact: Catherine Stoupas

## SAN JOSE

800 West El Camino,  
Real Suite 180, Mountain View  
CA 94040  
T: +1 520 777 7581  
E: joel.brown@us.rlb.com  
Contact: Joel Brown

## SEATTLE

2003 Western Avenue,  
Suite 515, Seattle,  
Washington 98121  
T: +1 206 223 2055  
E: emile.leroux@us.rlb.com  
Contact: Emile le Roux

## TUSCON

33 West Congress Street, Suite 215,  
Tucson, Arizona 85701  
T: +1 520 777 7581  
E: josh.marks@us.rlb.com  
Contact: Josh Marks

## WAIKOLOA

Waikoloa Highlands Centre  
68-1845 Waikoloa Road, Suite 202,  
Waikoloa, Hawaii 96738  
T: +1 808 883 3379  
E: kevin.mitchell@us.rlb.com  
Contact: Kevin Mitchell

## WASHINGTON, D.C

199 E. Montgomery Avenue, Suite  
100, Rockville, Maryland 20850  
T: +240 599 8176  
E: neil.sinclair@us.rlb.com  
Contact: Neil Sinclair

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# CALENDARS 2018 - 2021

## 2018

JANUARY 2018							FEBRUARY 2018							MARCH 2018						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31

APRIL 2018							MAY 2018							JUNE 2018						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
29	30						27	28	29	30	31			24	25	26	27	28	29	30

JULY 2018							AUGUST 2018							SEPTEMBER 2018						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						

OCTOBER 2018							NOVEMBER 2018							DECEMBER 2018						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7					1	2	3							1
8	9	10	11	12	13	14	4	5	6	7	8	9	10	2	3	4	5	6	7	8
15	16	17	18	19	20	21	11	12	13	14	15	16	17	9	10	11	12	13	14	15
22	23	24	25	26	27	28	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

## 2019

JANUARY 2019							FEBRUARY 2019							MARCH 2019						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3						1	2
7	8	9	10	11	12	13	3	4	5	6	7	8	9	3	4	5	6	7	8	9
14	15	16	17	18	19	20	10	11	12	13	14	15	16	10	11	12	13	14	15	16
21	22	23	24	25	26	27	17	18	19	20	21	22	23	17	18	19	20	21	22	23
28	29	30	31				24	25	26	27	28			24	25	26	27	28	29	30

APRIL 2019							MAY 2019							JUNE 2019						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30						26	27	28	29	30	31		23	24	25	26	27	28	29
														30						

JULY 2019							AUGUST 2019							SEPTEMBER 2019						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	1	2	3	4	5	6	7	
8	9	10	11	12	13	14	4	5	6	7	8	9	10	8	9	10	11	12	13	14
15	16	17	18	19	20	21	11	12	13	14	15	16	17	15	16	17	18	19	20	21
22	23	24	25	26	27	28	18	19	20	21	22	23	24	22	23	24	25	26	27	28
29	30	31					25	26	27	28	29	30	31	29	30					

OCTOBER 2019							NOVEMBER 2019							DECEMBER 2019						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	3	4	5	6	7	8	9	8	9	10	11	12	13	14
14	15	16	17	18	19	20	10	11	12	13	14	15	16	15	16	17	18	19	20	21
21	22	23	24	25	26	27	17	18	19	20	21	22	23	22	23	24	25	26	27	28
28	29	30	31				24	25	26	27	28	29	30	29	30	31				

# 2020

**JANUARY 2020**

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 2020**

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

**MARCH 2020**

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				

**APRIL 2020**

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		

**MAY 2020**

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					

**JUNE 2020**

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		

**JULY 2020**

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	

**AUGUST 2020**

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					

**SEPTEMBER 2020**

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		

**OCTOBER 2020**

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						

**NOVEMBER 2020**

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					

**DECEMBER 2020**

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	

# 2021

**JANUARY 2021**

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 2021**

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		

**MARCH 2021**

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	

**APRIL 2021**

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

**MAY 2021**

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					

**JUNE 2021**

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		

**JULY 2021**

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						

**AUGUST 2021**

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				

**SEPTEMBER 2021**

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

**OCTOBER 2021**

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						

**NOVEMBER 2021**

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		

**DECEMBER 2021**

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						

# CALENDARS 2019

## ROSTERED DAYS OFF

	ADELAIDE	BRISBANE & DARWIN
BASIS	CFMEU EBA	CFMEU EBA
HOURS BASIS	36	36
JAN	TUE 29	WED 2
	WED 30	THU 3
		FRI 4
		TUE 29
FEB	MON 11	MON 25
	MON 25	
MAR	TUE 12	MON 25
	WED 13	
APR	THU 18	MON 23
	TUE 23	TUE 24
	WED 24	FRI 26
	FRI 26	
MAY	MON 13	MON 20
	MON 27	
JUN	TUE 11	MON 17
	WED 12	
JUL	MON 15	MON 15
	MON 29	
AUG	MON 12	MON 12
	MON 26	TUE 13
SEP	MON 9	MON 9
	MON 23	
OCT	TUE 8	TUE 8
	WED 9	
NOV	MON 11	MON 4
	MON 25	TUE 5
		WED 6
DEC	MON 23	MON 2
	TUE 24	FRI 20
		MON 23
		TUE 24
		FRI 27
		MON 30
		TUE 31
TOTAL	26	26



CANBERRA	MELBOURNE	PERTH	SYDNEY
CFMEU EBA	CFMEU EBA	CFMEU EBA	CFMEU EBA
36	36	36	36
WED 2	TUE 8	WED 2	TUE 29
FRI 25	TUE 29	THU 3	
TUE 29		FRI 4	
		TUE 29	
MON 4	MON 11	MON 11	MON 25
MON 25	MON 25		
FRI 8	TUE 12	TUE 5	MON 25
TUE 12			
TUE 23	MON 1	TUE 23	FRI 26
WED 24	TUE 23	WED 24	
FRI 26	WED 24		
	FRI 26		
FRI 24	MON 13	MON 13	MON 27
TUE 28	MON 27		
TUE 11	TUE 11	TUE 4	TUE 11
MON 17	MON 24		
MON 1	MON 8	MON 1	MON 8
MON 22	MON 22	MON 29	
MON 5	MON 5	MON 26	MON 5
MON 26	MON 19		
MON 9	MON 9		MON 2
MON 30	MON 30		
FRI 4	MON 14	TUE 1	TUE 8
TUE 8		MON 28	
MON 4	MON 4	MON 4	MON 4
MON 25	WED 6	TUE 5	
	MON 18		
MON 2	MON 23	MON 23	TUE 3
MON 23	TUE 24	TUE 24	MON 23
	FRI 27	FRI 27	
		MON 30	
		TUE 31	
<b>26</b>	<b>26</b>	<b>22 FIXED &amp; 4 VARIABLE</b>	<b>13 FIXED &amp; 13 VARIABLE</b>

# CALENDARS

## PUBLIC HOLIDAYS IN AUSTRALIA

ALL STATES	2019	2020	2021
NEW YEARS DAY	1 JAN	1 JAN	1 JAN
AUSTRALIA DAY	28 JAN	27 JAN	26 JAN
GOOD FRIDAY	19 APR	10 APR	2 APR
EASTER MONDAY	22 APR	13 APR	5 APR
ANZAC DAY	25 APR	25 APR	25 APR
QUEENS BIRTHDAY (EXCL QLD & WA)	10 JUN	8 JUN	14 JUN
CHRISTMAS DAY	25 DEC	25 DEC	27 DEC
BOXING DAY	26 DEC	28 DEC	28 DEC
<b>AUSTRALIAN CAPITAL TERRITORY</b>			
CANBERRA DAY	11 MAR	9 MAR	8 MAR
EASTER SATURDAY	20 APR	11 APR	3 APR
EASTER SUNDAY	21 APR	12 APR	4 APR
RECONCILIATION DAY	27 MAY	1 JUN	31 MAY
LABOUR DAY	7 OCT	5 OCT	4 OCT
<b>NEW SOUTH WALES</b>			
EASTER SATURDAY	20 APR	11 APR	3 APR
EASTER SUNDAY	21 APR	12 APR	4 APR
BANK HOLIDAY	5 AUG	3 AUG	2 AUG
LABOUR DAY	7 OCT	5 OCT	4 OCT
<b>NORTHERN TERRITORY</b>			
EASTER SATURDAY	20 APR	11 APR	3 APR
MAY DAY	6 MAY	4 MAY	3 MAY
PICNIC DAY	5 AUG	3 AUG	2 AUG
<b>QUEENSLAND</b>			
EASTER SATURDAY	20 APR	11 APR	3 APR
LABOUR DAY	6 MAY	4 MAY	3 MAY
ROYAL QUEENSLAND SHOW	14 AUG	12 AUG	11 AUG
QUEENS BIRTHDAY	7 OCT	5 OCT	4 OCT
<b>SOUTH AUSTRALIA</b>			
EASTER SATURDAY	20 APR	11 APR	3 APR
ADELAIDE CUP DAY	11 MAR	9 MAR	8 MAR
LABOUR DAY	7 OCT	5 OCT	4 OCT
<b>TASMANIA</b>			
ROYAL HOBART REGATTA	11 FEB	10 FEB	8 FEB
LAUNCESTON CUP	27 FEB	26 FEB	24 FEB
EIGHT HOURS DAY	11 MAR	9 MAR	8 MAR
EASTER TUESDAY	23 APR	14 APR	6 APR
LAUNCESTON SHOW	10 OCT	8 OCT	7 OCT
HOBART SHOW	24 OCT	22 OCT	21 OCT
RECREATION DAY (NORTHERN)	4 NOV	2 NOV	1 NOV
<b>VICTORIA</b>			
LABOUR DAY	11 MAR	9 MAR	8 MAR
EASTER SATURDAY	20 APR	11 APR	3 APR
EASTER SUNDAY	21 APR	12 APR	4 APR
GRAND FINAL EVE DAY	27 SEP	25 SEP	TBA
MELBOURNE CUP DAY	5 NOV	3 NOV	2 NOV
<b>WESTERN AUSTRALIA</b>			
LABOUR DAY	4 MAR	2 MAR	1 MAR
FOUNDATION DAY	3 JUN	1 JUN	7 JUN
QUEENS BIRTHDAY	30 SEP	28 SEP	27 SEP

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