



Rider  
Levett  
Bucknall

**RIDERS  
DIGEST  
2020**

**CANBERRA,  
AUSTRALIA**

EDITION

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# **RIDERS DIGEST**

## **48<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 2019 (unless stated differently). All figures exclude GST.

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# INTRODUCTION

## RIDER LEVETT BUCKNALL

### “CONFIDENCE TODAY INSPIRES TOMORROW”

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

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

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

### “CREATING A BETTER TOMORROW”

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

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

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

# PROFESSIONAL SERVICES

Cost Management and Quantity Surveying	6
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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.

## PROJECT PROGRAMMING

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

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

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

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

# ADVISORY SERVICES

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

## Asset Advisory

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

RLB is expert in the following strategic services:

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

## RElifying of Assets

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

## Facilities Consultancy

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

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

# ADVISORY SERVICES

## Building Surveying

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

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

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

## Risk Mitigation and Due Diligence

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

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

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

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

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

## Property Taxation

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

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

## Litigation Support

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

## Procurement Strategies

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

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

## ADVISORY SERVICES

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

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

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

### Research

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

# INTERNATIONAL CONSTRUCTION

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# INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

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



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

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

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

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

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

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

# INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

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

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

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

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

# INTERNATIONAL CONSTRUCTION RLB ESCALATION FORECASTS

## RLB TENDER PRICE INDEX ANNUAL CHANGE

All indices are stated as annual percentage changes.

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

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

NP: Not published

# AUSTRALIAN CONSTRUCTION

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# AUSTRALIAN CONSTRUCTION BUILDING COST RANGES

## CONSTRUCTION RATES

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

Specific exclusions:

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

All costs current as at Fourth Quarter 2019.

CITY	ADELAIDE		BRISBANE	
	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
	LOW	HIGH	LOW	HIGH
<b>COST RANGE PER GROSS FLOOR AREA</b>				
<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 2019.

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 2019.

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)	-	-		
<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 SQ.M.	481	631	493	626
400 SQ.M.	474	624	493	626

**BUILDING SERVICES COSTS INCLUDE:**

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

Refer to page 34 to 37 for detailed services costs.

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

# AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2019.

COST RANGE PER GROSS FLOOR AREA	ADELAIDE		BRISBANE	
	\$/M <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	1,234	1,500	943	1,686
55-80 M <sup>2</sup> GFA/BED WITH MAJOR OPERATING THEATRE	1,447	1,924	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	428	793
1,125	1,485	1,433	1,680	997	1,519	1,130	1,500	1,090	1,418
1,369	1,961	1,580	1,981	1,199	2,070	1,275	1,710	1,464	2,030
818	984	1,013	1,278	627	920	695	910	1,054	1,517
768	883	642	877	533	823	630	870	531	728
481	722	662	920	423	784	540	775	534	731
481	653	602	840	371	680	555	695	502	656
596	883	577	918	491	915	-	-	570	901
424	665	519	762	340	685	360	600	550	813
253	690	417	760	220	655	270	570	372	595
244	543	336	649	209	638	235	785	205	759
243	681	400	574	209	575	240	470	233	707
127	681	400	574	209	554	240	470	201	668
566	920	654	851	518	880	495	860	657	934
566	861	620	809	512	849	485	830	621	909
614	920	648	846	554	905	555	860	749	1,006
614	1,015	636	829	554	874	550	825	715	925
733	1,040	712	875	648	992	655	955	806	1,153
686	1,040	696	855	627	900	630	935	793	1,085
-	-	-	-	821	1,220	870	1,110	1,054	1,370
-	-	-	-	763	1,168	850	1,095	1,027	1,359

# AUSTRALIAN CONSTRUCTION RLB TENDER PRICE INDEX

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

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

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

# AUSTRALIAN CONSTRUCTION DEFINITIONS

## CBD

Central Business District.

## BUILDING WORKS

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

## BUILDING SERVICES

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

## OFFICE BUILDINGS

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

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

## HOTELS

RATING	GFA PER ROOM		
	TOTAL	ACCOMMODATION	PUBLIC SPACE
FIVE STAR	85-120 M <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

## 48<sup>TH</sup> EDITION

### ACKNOWLEDGEMENTS

Rider Levett Bucknall wish to express their appreciation for advice received from the following organisations in the preparation of this compendium:

**Property Council of Australia**

Measurement of Net Lettable Area.

**Savills Research**

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.

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# CANBERRA CONSTRUCTION COSTS

Building Service Costs	34
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Hotel Furniture, Fittings & Equipment	40
Office Fitout Costs	41
Recreational Facilities Costs	42
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# CANBERRA CONSTRUCTION BUILDING SERVICES COSTS

All costs current as at Fourth Quarter 2019.

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 GreenStar ratings. The lower end of the range indicates re-use and modification of existing specialist building services, while the upper end of the range indicates complete replacement of equipment and accessories.

	LOW	HIGH	PER
CBD OFFICES TYPICAL FLOOR	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 walk-ways 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

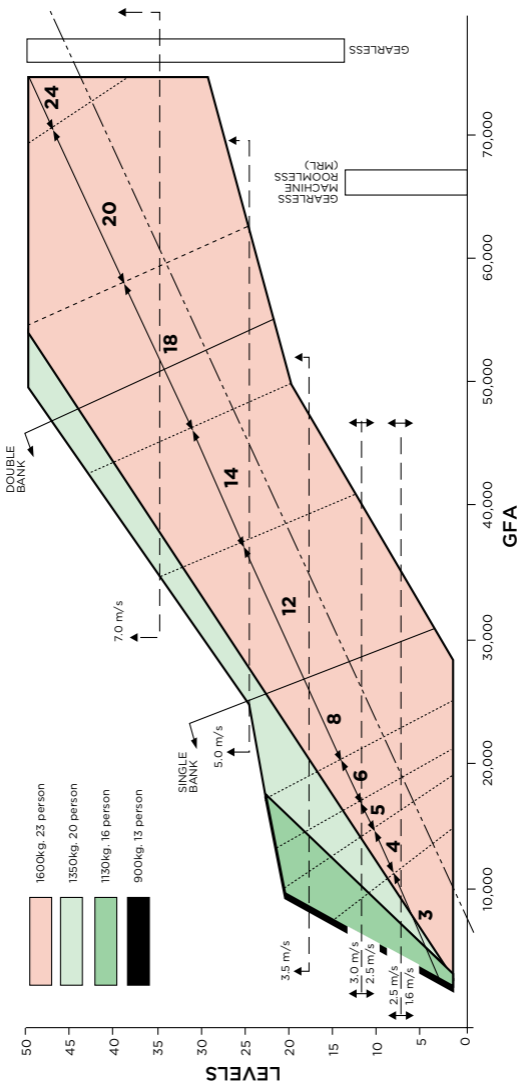
# CANBERRA CONSTRUCTION VERTICAL TRANSPORTATION

## 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 \$1.20 PER \$100 OR PART THEREOF, WHICHEVER IS GREATER
\$200,001 TO \$300,000	\$2,400 PLUS \$2.20 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$200,000
\$300,001 TO \$500,000	\$4,600 PLUS \$3.40 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$300,000
\$500,001 TO \$750,000	\$11,400 PLUS \$4.32 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$500,000
\$750,001 TO \$1,000,000	\$22,200 PLUS \$5.90 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$750,000
\$1,000,001 TO \$1,454,999	\$36,950 PLUS \$6.40 PER \$100 OR PART THEREOF BY WHICH THE VALUE EXCEEDS \$1,000,000
\$1,455,000 AND OVER	A FLAT RATE OF \$4.54 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 2019/20 year, the fixed charge is \$1,263.

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 2019/20 is the average of the property's unimproved value over 2017, 2018, and 2019.

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	2019/20 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 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 10 SPACES/100 M <sup>2</sup> OVER 5000 M <sup>2</sup> PLUS 1 SPACE/10 RESTAURANT SEATS PLUS 2 SPACES/100 M <sup>2</sup> OF RETAIL SPACE
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	<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 &amp; TUGGERANONG:</b> 2.5 SPACES/2 SPACES 100 M <sup>2</sup> GFA RESPECTIVELY
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 2019

PCA GRADE	STOCK M <sup>2</sup>	VACANCY M <sup>2</sup>	VAC % JUN-19
PRIME	1,113,200	57,9010	5.2
SECONDARY	1,204,700	196,100	16.3
<b>TOTAL</b>	<b>2,317,900</b>	<b>254,000</b>	<b>11.00</b>

Source: PCA/Savills Research.

## CURRENT CANBERRA OFFICE DEVELOPMENT ACTIVITY

PROPERTY	PRECINCT	NLA M <sup>2</sup>	STATUS	COMPLETION	TENANTS
72 NORTHBOURNE AVE	CANBERRA	16,000	UC	2019	
CRN OF CONSTITUTION AND LONDON CCT	CIVIC	24,000	UC	2020	ACT GOVERNMENT
CRN OF CONSTITUTION AND LONDON CCT	CANBERRA	12,000	UC	2020	MINTER ELLISON, KPMG, DIXON ADVISORY, KINGWOOD MALLESONS
STAGE 1, 13-15 CHALLIS ST	DICKSON	13,200	UC	2020	ACCESS CANBERRA
90 DENISON ST	DEAKIN	8,000	UC	2022	
2 DARLING ST	BARTON	12,000	PS	2021	
6 BRINDABELLA CCT	BRINDABELLA	21,000	UC	2021	
LONDON CCT, CRN EDIBURGH AVE (SECTION 100)	CANBERRA	40,000	EP	2022	

M: Mooted EP: Early Planning DA: Development Approval UC: Under Construction

Source: Savills Research.

# CANBERRA DEVELOPMENT OFFICE SECTOR DATA

## KEY MARKET INDICATORS - Q2 2019

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	500
RENTAL - NET FACE	306	405
INCENTIVE LEVEL (GROSS)	15%	25%
RENTAL - NET EFFECTIVE	225	305
OUTGOINGS - OPERATING	55	70
OUTGOINGS - STATUTORY	25	37
OUTGOINGS - TOTAL	80	107
TYPICAL LEASE TERM (YEARS)	5	15
YIELD - MARKET (% NET FACE RENTAL)	5.50	8.25
IRR (%)	7.50	9.00
CARS PERMANENT RESERVED (\$/PCM)	175	240
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
6.50	10.00
8.00	10.75
320	385
4,000	6,000

PCA GRADE B	
LOW	HIGH
365	400
270	305
18	30
180	210
60	70
25	37
85	107
3	10
7.25	11.00
8.50	11.75
175	240
3,500	5,250

# CANBERRA DEVELOPMENT DEVELOPMENT PIPELINE

PROJECT
<b>ACCOMMODATION</b>
ECLIPSE HOUSE
BELCONNEN HOTEL
NORTHBOURNE AVENUE ABODE HOTEL & APARTMENTS - MIDNIGHT
<b>BRIDGES RAILWAYS HARBOURS</b>
CANBERRA LIGHT RAIL - CIVIC TO WODEN LIGHT RAIL
<b>EDUCATION</b>
ANU JOHN CURTIN SCHOOL OF MEDICAL RESEARCH
AUSTRALIAN CENTRE FOR CHRISTIANITY & CULTURE
GUNGALHIN SCHOOL EXPANSIONS
UNIVERSITY OF CANBERRA BRUCE CAMPUS - OVERALL PROJECT
UNIVERSITY OF CANBERRA SPORTING COMMONS
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>
ANZAC PARK EAST OFFICES REDEVELOPMENT
ANZAC PARK WEST
BARTON SITE REDEVELOPMENT
IMMIGRATION & CUSTOMS HUB
SECTION 63 VERNON SOUTH - BUILDING 3
CIVIC QUARTER - STAGE 1
CONSTITUTION PLACE
RUSSELL OFFICES R5 AND R6
<b>OTHER COMMERCIAL</b>
CANBERRA AIRPORT OVERALL MASTERPLAN
CANBERRA DATA CENTRE
<b>RECREATION AND OTHER</b>
AUSTRALIAN WAR MEMORIAL
<b>RESIDENTIAL</b>
CAMPBELL RESIDENTIAL DEVELOPMENT SITE
DICKSON ON NORTHBOURNE
LONDON CIRCUIT DEVELOPMENT SITE
SECTION 7 REID - CITY 7
WEST BELCONNEN/PARKWOOD URBAN RELEASE - GINNINDERRY
WOVA - WODEN REVAMPED
FOUNDERS LANE
GOODWIN VILLAGE FARRER
<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
BELCONNEN	30	FIRM
BRADDON	79	FIRM
WODEN	400	EARLY
ACTON	25	EARLY
BARTON	110	EARLY
GUNGAHLIN	23	EARLY
BELCONNEN	1,000	EARLY
BRUCE	50	EARLY
ACTON	25	FIRM
CANBERRA	40	EARLY
BRUCE	340	FIRM
HUME	30	EARLY
BLACK MOUNTAIN	195	FIRM
CANBERRA CITY	150	FIRM
PARKES	45	EARLY
PARKES	48	EARLY
BARTON	85	EARLY
MAJURA	185	EARLY
CANBERRA CITY	41	EARLY
CANBERRA	54	FIRM
CIVIC SQUARE	300	FIRM
RUSSELL	75	FIRM
PIALLIGO	48	EARLY
FYSHWICK	150	FIRM
CAMPBELL	21	EARLY
CAMPBELL	120	EARLY
DICKSON	96	EARLY
CANBERRA	500	EARLY
REID	300	EARLY
HOLT	180	EARLY
PHILLIP	380	EARLY
BRADDON	75	FIRM
FARRER	84	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	1,635	1,174	964	<b>3,774</b>
JUN-2019	2,016	1,208	800	<b>4,023</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	167	166
JUN-2018	346	54	168	312	52
JUN-2019	369	90	82	355	33

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

AGED CARE	HOTELS	ENTERTAINMENT & RECREATION	OTHER	TOTAL
0	7	24	9	287
3	2	30	7	335
1	1	46	4	316
6	9	16	8	371
18	47	61	7	879
25	26	80	43	1,193
29	12	122	79	1,120
44	4	91	43	1,220
3	19	49	16	1,293
6	32	28	42	1,333
16	42	32	32	1,285
14	61	35	39	992
20	28	33	53	712
41	73	36	97	779
41	19	46	96	912
27	29	67	72	915
32	35	88	87	1,174
31	143	50	39	1,192

# 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	461	1,049	125	<b>1,635</b>
JUN-2019	598	1,288	129	<b>2,016</b>

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



# CANBERRA DEVELOPMENT DWELLING COMMENCEMENTS

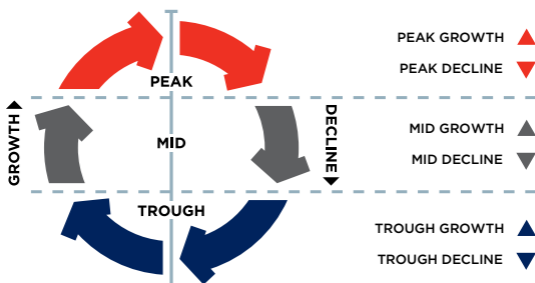
## ANNUAL NUMBER OF DWELLING COMMENCEMENTS IN AUSTRALIAN CAPITAL TERRITORY

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	1,156	3,903	5,062
JUN-2019	1,343	4,630	5,981

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 2017	Q4 2017	Q2 2018	Q4 2018	Q2 2019	Q4 2019
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 2019. For towns or cities outside capital cities, costs can be expected to vary in accordance with the following table of indices:

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

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

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

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

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

# BENCHMARKS

## KEY CITY RELATIVITIES - Q4 2019

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

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

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

where:

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

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

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

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

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

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

# BENCHMARKS

## OFFICE BUILDING EFFICIENCIES

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

TYPE OF CBD OFFICE BUILDING	EFFICIENCY		
	BASEMENTS AND CAR PARKS		
	INCLUDED %	EXCLUDED %	OFFICE FLOORS %
<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.

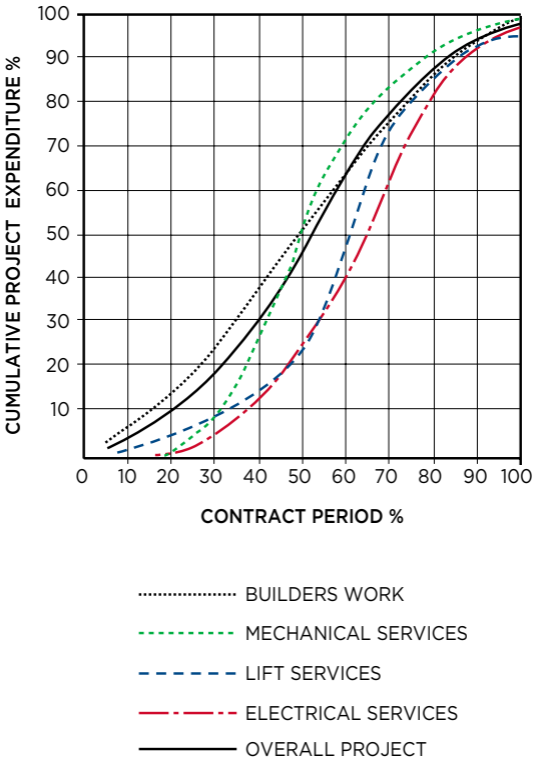
PRELIMINARIES	40	10	50
DEMOLISHER	85		15
EXCAVATOR	32	15	53
PILER	20	50	30
IN SITU CONCRETOR	25		75
FORMWORKER	70		30
REINFORCEMENT FIXER	20		80
PRECAST CONCRETOR	20		80
BRICKLAYER & BLOCKLAYER	50		50
MASON	10		90
ASPHALTOR	40		60
STRUCTURAL STEELWORK	60		40
METALWORKER	20		80
SUSPENDED CEILING FIXER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





# 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, SBEnrc, TEFMA and other industry bodies, have been involved with the ISO's international Facilities Management (FM) standards initiative.

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

- 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.

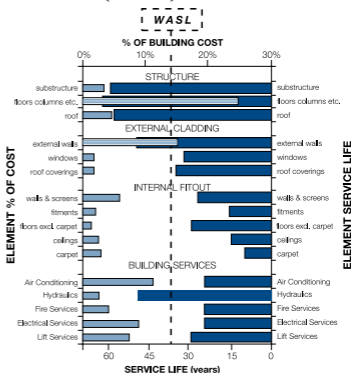
# ASSETS AND FACILITIES USEFUL LIFE ANALYSIS

## 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.

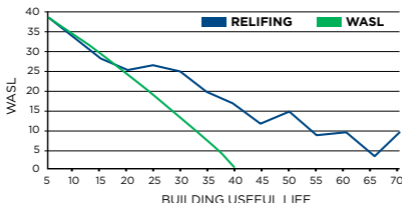
## WEIGHTED AVERAGE SERVICE LIFE

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 outgoings 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.

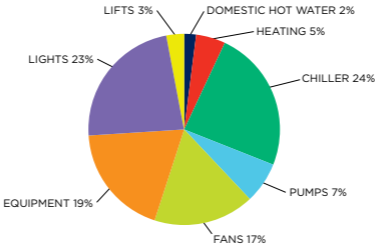
The level of recovery of outgoings is normally governed and regulated by leases and other agreements with tenants.

The cost of outgoings varies depending upon:

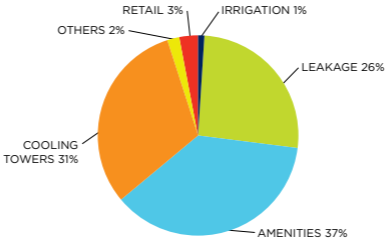
- the level of management and services provided
- lease agreements
- quality, type and efficiency of the building
- location and statutory regimes applicable

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

**TYPICAL OFFICE ENERGY USAGE**



**TYPICAL OFFICE WATER USAGE**



## ASSETS AND FACILITIES ESSENTIAL SAFETY MEASURES

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

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

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

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

### Note:

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

# ASSETS AND FACILITIES CAPITAL ALLOWANCES (TAX DEPRECIATION)

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

## Division 40 - Depreciating Assets

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

## Division 43 - Capital Allowances

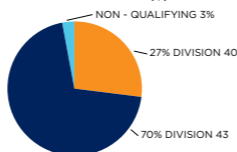
Capital allowances are the building allowance and structural improvement deductions that are available for buildings. Depreciating rates are either 2.5% or 4% dependent on the use of the building and construction commencement date.

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

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

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

TOTAL ALLOWANCES (\$)



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

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

# ASSETS AND FACILITIES CAPITAL ALLOWANCES (TAX DEPRECIATION)

SCHEDULE OF ASSETS	PRIME COST %	DIMINISHING VALUE %
<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

# OFFICES AROUND THE WORLD

Oceania	84
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# CALENDARS 2019 - 2022

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

## 2020

JANUARY 2020							FEBRUARY 2020							MARCH 2020						
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							1	2	3	4	5	6	7	8
5	6	7	8	9	10	11	2	3	4	5	6	7	8	8	9	10	11	12	13	14
12	13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21
19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28
26	27	28	29	30	31		23	24	25	26	27	28	29	29	30	31				
APRIL 2020							MAY 2020							JUNE 2020						
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							1	2						1
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30				
JULY 2020							AUGUST 2020							SEPTEMBER 2020						
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							1	2						1
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31		23	24	25	26	27	28	29	27	28	29	30			
OCTOBER 2020							NOVEMBER 2020							DECEMBER 2020						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1	2						1
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		



# CALENDARS 2020

## ROSTERED DAYS OFF

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



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

# CALENDARS

## PUBLIC HOLIDAYS IN AUSTRALIA

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

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