## RLB Rider RLB Levett Bucknall

# RIDERS DIGEST 2018

**SYDNEY, AUSTRALIA** EDITION

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# 46TH EDITION

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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 2017 (unless stated differently). All figures exclude GST.

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### CONTENTS

PROFESSIONAL SERVICES	
Cost Management and Quantity Surveying Advisory	6 9
INTERNATIONAL CONSTRUCTION	
Building Cost Ranges	14
RLB Escalation Forecasts	18
AUSTRALIAN CONSTRUCTION	
Building Cost Ranges	20
Building Services Cost Ranges	24
RLB Tender Price Index	28
Definitions Acknowledgements	30 32
-	32
CONSTRUCTION COSTS	74
Building Services Ranges Unit Costs	34 38
Site Works	30
Demolition	40
Hotel Furniture, Fittings & Equipment	40
Office Fitout	41
Recreational Facilities	42
Vertical Transportation	44
DEVELOPMENT	
Stamp Duties	48
Land Tax	49
Planning – Car Parking	50
Land Values	51
Rental Rates Office Sector Data	52 53
Retail Sector Data	56
Industrial Sector Data	58
Construction Work Done	59
RI B Market Activity Cycle	63

BENCHMARKS Regional Indices Key City Relativities Office Building Efficiencies Reinforcement Ratios Labour and Materials Trade Ratios Progress Payment Claims Common Industry Acronyms Method of Measurement	66 67 68 68 69 70 71 71
ASSETS AND FACILITIES Sustainability and Quality Management Standards Useful Life Analysis Outgoings Essential Safety Measures Capital Allowances (Tax Depreciation)	76 77 78 79 80 81
OFFICES Oceania Africa Middle East United Kingdom Asia Americas	84 85 85 86 86 89
CALENDARS Calendars 2017 - 2020 2018 Rostered Days Off Public Holidays	92 94 96

| 3

### 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

Advisory

6 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
- Estimating 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.

8

### **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

### **RElifing 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 and 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

Building Cost Ranges	14
RLB Escalation Forecasts	18

### INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

### Refer to www.rlbintelligence.com for updates.

		COST PER M <sup>2</sup>				
LOCATION	LOCAL	OFFICE BUILDING				
/CITY	CURRENCY	PREI	MUM	GRA	DE A	
		LOW	HIGH	LOW	HIGH	
AMERICAS @ Q3 2	2017					
BOSTON	USD	3,230	5,110	2,155	3,230	
CHICAGO	USD	3,015	4,845	1,885	3,015	
DENVER	USD	1,720	2,745	1,235	1,885	
HONOLULU	USD	3,070	5,705	2,635	4,305	
LAS VEGAS	USD	1,505	3,175	1,130	2,045	
LOS ANGELES	USD	2,370	3,660	1,720	2,635	
NEW YORK	USD	4,035	6,190	3,230	4,305	
PHOENIX	USD	1,720	2,960	1,185	1,885	
SEATTLE	USD	2,155	2,690	1,560	2,155	
TORONTO	CAD	2,100	2,800	1,830	2,690	
ASIA @ Q3 2017						
BEIJING	RMB	7,650	11,300	7,150	10,800	
GUANGZHOU	RMB	7,200	10,900	6,650	10,050	
HO CHI MINH CITY	VND ('000)	24,900	35,800	21,300	26,600	
HONG KONG	\$HKD	23,600	35,200	20,100	27,300	
JAKARTA	RP ('000)	10,130	13,200	6,870	11,000	
KUALA LUMPUR	RINGGIT	2,800	4,000	2,200	3,000	
MACAU	MOP	18,600	25,900	16,400	23,000	
SEOUL	KRW ('000)	2,330	3,000	1,760	2,160	
SHANGHAI	RMB	7,500	11,100	6,750	10,300	
SINGAPORE	SGD	2,900	4,050	2,050	3,250	
EUROPE @ Q3 20	17					
BELFAST	GBP	1,325	1,865	1,155	1,870	
BIRMINGHAM	GBP	1,850	2,700	1,500	2,700	
BRISTOL	GBP	1,950	2,800	1,600	2,800	
CARDIFF	GBP	1,655	2,335	1,440	2,340	
EDINBURGH	GBP	1,745	2,455	1,515	2,460	
LONDON	GBP	2,600	3,390	2,145	3,340	
MANCHESTER	GBP	2,045	2,680	1,765	2,650	
MIDDLE EAST @ G	3 2017					
ABU DHABI	AED	5,510	6,650	4,465	6,270	
DUBAI	AED	5,800	7,000	4,700	6,600	
DOHA	QAR	6,500	8,500	6,100	8,200	
OCEANIA @ Q4 20	017					
ADELAIDE	AUD	2,600	3,800	2,100	3,150	
AUCKLAND	NZD	3,600	4,750	2,800	4,500	
BRISBANE	AUD	2,600	3,900	2,200	3,500	
CANBERRA	AUD	3,400	5,400	2,750	4,200	
CHRISTCHURCH	NZD	3,600	4,500	2,750	4,250	
DARWIN	AUD	3,100	4,150	2,400	3,800	
GOLD COAST	AUD	2,450	4,000	1,900	3,000	
MELBOURNE	AUD	3,150	4,250	2,450	3,350	
PERTH	AUD	3,000	4,400	2,400	3,750	
SYDNEY	AUD	3,550	4,750	2,650	3,850	
WELLINGTON	NZD	3,100	4,500	2,700	4,450	

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>								
	RET	AIL			ENTIAL			
MA	ALL	STRIP SH	HOPPING	MULTIS	STOREY			
LOW	HIGH	LOW	HIGH	LOW	HIGH			
1,885	2,960	1,345	2,155	1,885	3,230			
1,990	3,015	1,455	2,370	1,720	3,660			
970	1,560	755	1,455	915	2,045			
2,260	5,330	1,885	4,680	2,100	4,790			
1,240	5,165	700	1,560	755	4,360			
1,560	3,500	1,240	1,940	1,940	3,120			
2,960	4,575	1,885	3,230	2,155	4,035			
1,290	2,155	860	1,505	970	1,990			
1,455	3,285	1,185	1,670	1,615	2,690			
2,155	2,690	1,130	1,720	1,400	2,205			
8,400	12,850	7,400	11,550	4,050	5,950			
8,200	11,650	7,100	10,650	3,800	5,450			
20,100	26,800	-	-	15,400	23,300			
23,700	30,100	20.200	26.300	22,400	37,400			
6,520	8,515	-	-	6.870	10.100			
2,100	3,500	-	-	1,900	4,500			
20,400	25,100	17,300	22,100	14,150	22,300			
1,570	2,270	1,320	2,010	1,590	2,180			
7,850	12,450	7,000	11.400	3,700	5,450			
2.150	3,300	-	-	1,950	3,100			
_,	0,000				-,			
2,030	2,845	645	1,215	1,220	1,715			
2,750	3,890	870	1,670	1,575	2,210			
2,750	3,890	870	1.650	1,700	2,450			
2,540	3,555	805	1,515	1,525	2,140			
2,675	3,740	850	1,595	1,605	2,255			
3,470	4,875	1,115	2,085	2,475	4,090			
2,875	4,040	915	1,735	1,755	2,460			
2,070	1,010	010	2,700	1,700	2,100			
3.895	6.175	-	-	4.275	5,795			
4,100	6,500	-	-	4,500	6,500			
5,300	6,500	-	-	6,500	7,800			
0,000	0,000			0,000	7,000			
1.575	3.000	1.300	1,825	2.350	3.450			
2,750	3,100	1,600	2,000	3,300	4,200			
2,000	3,500	1,200	1.800	2,300	4,000			
2,350	3,950	1,240	2,500	2,850	4,950			
2,500	2,800	1,240	1,800	3,000	4,930			
1,750	2,600	1,400	2,100	2,050	2,650			
2.150	3,100	1,050	1,600	1,850	3,000			
2,150	3,100	1,050	1,600	2,350	4,200			
1,900	2,900	1,220	2,500	2,350	4,200			
1,900	4,150	1,520	2,500	2,600	4,000 5,400			
2,600	2,800	1,400	1,800	3,150	4,000			

### INTERNATIONAL CONSTRUCTION BUILDING COST RANGES

All costs are stated in local currency as shown below.

### Refer to www.rlbintelligence.com for updates.

		COST PER M <sup>2</sup>				
LOCATION	LOCAL	HOTELS				
/CITY	CURRENCY	3 S	TAR	5 STAR		
		LOW	HIGH	LOW	HIGH	
AMERICAS @ Q3 2	2017					
BOSTON	USD	2,690	4,035	4,035	5,920	
CHICAGO	USD	2,905	4,200	4,200	6,995	
DENVER	USD	1,615	1,990	2,155	3,335	
HONOLULU	USD	3,500	5,865	5,545	8,020	
LAS VEGAS	USD	1,615	3,230	3,765	5,380	
LOS ANGELES	USD	2,690	3,500	3,765	5,545	
NEW YORK	USD	3,230	4,305	4,305	6,460	
PHOENIX	USD	1,615	2,690	3,230	5,380	
SEATTLE	USD	2,370	2,530	2,585	3,550	
TORONTO	USD	2,100	2,800	3,230	3,820	
ASIA @ Q3 2017						
BEIJING	RMB	9,700	12,500	13,000	17,200	
GUANGZHOU	RMB	9,600	11,700	13,000	16,700	
HO CHI MINH CITY	VND ('000)	24,400	31,500	32,400	39,700	
HONG KONG	\$HKD	30,300	35,100	36,800	45,000	
JAKARTA	RP ('000)	11,140	12,470	13,670	17,420	
KUALA LUMPUR	RINGGIT	2,500	3,500	5,000	7,000	
MACAU	MOP	25,200	29,000	31,300	38,500	
SEOUL	KRW ('000)	2,030	2,580	3,150	4,680	
SHANGHAI	RMB	9,500	12,300	12,900	17,000	
SINGAPORE	SGD	3,200	3,600	4,150	5,450	
EUROPE @ Q3 20	17					
BELFAST	GBP	975	1,435	1,550	2,115	
BIRMINGHAM	GBP	1,280	1,970	2,100	3,000	
BRISTOL	GBP	1,350	1,800	2,300	3,100	
CARDIFF	GBP	1,220	1,795	1,935	2,640	
EDINBURGH	GBP	1,285	1,890	2,035	2,780	
LONDON	GBP	1,855	2,380	2,745	3,690	
MANCHESTER	GBP	1,385	1,845	2,190	3,000	
MIDDLE EAST @ G	3 2017					
ABU DHABI	AED	5,700	8,075	8,550	11,400	
DUBAI	AED	6,000	9,000	9,000	14,000	
DOHA	QAR	7,500	8,500	11,500	14,500	
OCEANIA @ Q4 2	017					
ADELAIDE	AUD	2,600	3,500	3,600	4,500	
AUCKLAND	NZD	4,100	4,600	5,250	6,000	
BRISBANE	AUD	2,800	4,000	4,000	5,500	
CANBERRA	AUD	3,050	5,200	4,150	6,300	
CHRISTCHURCH	NZD	3,800	4,300	4,500	5,500	
DARWIN	AUD	2,850	3,550	3,600	4,450	
GOLD COAST	AUD	2,600	4,000	3,400	5,500	
MELBOURNE	AUD	2,850	3,700	4,050	5,300	
PERTH	AUD	2,600	3,600	3,600	4,800	
SYDNEY	AUD	3,150	4,000	4,450	6,000	
WELLINGTON	NZD	3,800	4,300	4,500	5,500	

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 PA				TRIAL			
MULTIS	STOREY	BASE	MENT	WARE	HOUSE			
LOW	HIGH	LOW	HIGH	LOW	HIGH			
805	1,345	970	1,615	1,075	1,885			
860	1,345	970	1,670	1,185	1,990			
540	755	970	1,290	970	1,615			
1,075	1,560	1,505	2,850	1,560	2,420			
540	915	645	1,615	540	1,075			
1,075	1,290	1,345	1,830	1,130	1,885			
1,025	1,885	1,345	2,155	1,240	2,155			
485	755	645	1,185	590	1,075			
970	1,185	1,400	1,720	1,025	1,345			
755	970	755	970	1,240	1,615			
2,250	3,050	3,750	6,550	4,350	5,500			
2.100	3.000	3,700	6,400	4.150	5.150			
9.100	13.600	18,700	25,500	6.210	9,400			
9,250	10,950	19,000	26,000	15,600	19,600			
3,500	4,500	4,500	6,190	4,790	6,080			
800	1.200	1,400	3,200	1.000	1.800			
-	-	10.850	13,700	-	-			
670	820	850	1.090	1.180	1.460			
2,100	3,050	4,000	6,650	4,050	5,200			
700	1,350	1.450	2,200	1,100	1,450			
700	1,000	1,400	2,200	1,100	1,400			
245	490	615	1,055	270	490			
350	675	800	1,375	400	560			
400	800	950	1,500	400	650			
305	610	770	1,320	335	610			
325	640	810	1,320	355	640			
445	890	1,185	1,910	480	870			
345	695	940	1,510	380	695			
545	095	940	1,500	380	095			
1,710	3,420	2,710	4,275	1,425	2,565			
2,300	3,600	3,100	4,275	1,423	2,900			
2,300	4.500	2,500	4,300	1,030	2,900			
2,750	4,500	2,500	4,250	-	-			
670	070	1 705	1.050	670	1 100			
630 900	930 1.200	1,325 2,200	1,950	630 750	1,100			
	,	,	2,700		1,000			
900	1,300	1,700	2,200	700	1,100			
770	1,300	1,040	1,800	720	1,360			
850	1,350	1,750	2,200	720	1,100			
750	1,250	1,175	1,550	800	1,425			
700	1,100	1,500	2,050	600	1,100			
690	1,120	1,180	1,540	580	1,160			
650	1,000	1,800	3,100	550	1,050			
770	1,160	1,120	1,800	730	1,160			
800	1,100	2,000	2,500	750	1,000			

### INTERNATIONAL CONSTRUCTION RLB ESCALATION FORECASTS

### RLB TENDER PRICE INDEX ANNUAL CHANGE

All indices are stated as annual percentage changes. *Refer to www.rlbintelligence.com for updates.* 

	2015	2016	2017 (F)	2018 (F)	2019 (F)	2020 (F)
AFRICA @ Q3 2017						
CAPE TOWN	6.0	7.3	NP	NP	NP	NP
JOHANNESBURG	7.2	6.4	7.9	7.0	7.6	10.9
MAPUTO	4.0	4.0	4.0	4.0	NP	NP
AMERICAS @ Q3 2017						
BOSTON	4.0	4.0	3.5	4.0	4.0	4.0
CALGARY	NP	NP	1.5	2.0	2.0	2.0
CHICAGO	4.1	4.3	5.0	4.0	4.0	4.0
HONOLULU	8.2	0.7	1.0	2.0	2.0	2.0
LAS VEGAS	4.4	3.3	3.0	5.0	5.0	5.0
LOS ANGELES	5.2	8.4	5.0	4.0	4.0	4.0
NEW YORK	3.9	3.9	3.5	4.0	4.0	4.0
PHOENIX	3.7	3.7	3.0	3.5	3.5	3.5
SEATTLE	4.9	4.7	5.0	4.0	4.0	4.0
TORONTO	NP	NP	1.5	3.0	3.0	3.0
WASHINGTON DC	4.4	4.3	4.0	4.0	4.0	4.0
ASIA @ Q3 2017						
BEIJING	-1.0	0.0	2.0	2.0	2.0	2.0
CHENGDU	0.3	-0.8	2.0	2.0	2.0	2.0
GUANGZHOU	-3.0	1.0	2.5	3.5	2.0	2.0
HONG KONG	1.2	0.4	0.0	2.0	2.0	2.0
MACAU	3.5	0.0	2.0	2.8	3.0	3.0
SEOUL	-0.5	3.9	2.5	2.1	1.9	1.8
SHANGHAI	-4.4	6.0	3.0	3.0	3.0	2.0
SHENZHEN	-0.7	1.0	2.0	3.5	4.1	4.1
SINGAPORE	1.5	-5.8	-1.5	NP	NP	NP
EUROPE @ Q3 2017						
BIRMINGHAM	4.0	3.0	2.8	2.5	3.0	3.0
BRISTOL	4.5	5.0	5.0	5.5	5.2	NP
BUDAPEST	1.0	5.5	9.5	8.0	8.0	5.0
LONDON	5.9	3.5	2.0	1.5	2.0	3.5
SHEFFIELD	9.0	2.5	-1.0	-3.0	0.5	NP
MADRID	0.0	0.1	0.8	0.1	0.1	NP
MANCHESTER	4.0	4.0	2.5	2.0	3.0	3.5
MOSCOW	-5.0	0.0	1.0	1.5	1.5	2.0
MIDDLE EAST @ Q3 2017						
ABU DHABI	4.7	-5.0	-3.0	2.0	7.0	8.0
DOHA	5.0	5.5	6.0	7.0	NP	NP
DUBAI	4.6	3.0	3.5	3.5	3.5	3.5
RIYADH	4.8	5.0	5.0	5.0	5.0	NP
OCEANIA @ Q4 2017						
ADELAIDE	0.8	1.8	3.1	3.5	4.0	4.0
AUCKLAND	5.1	5.5	8.0	6.0	3.5	3.0
BRISBANE	5.9	7.2	4.1	4.0	4.1	3.1
CANBERRA	2.0	2.5	2.8	3.5	3.2	3.0
CHRISTCHURCH	6.0	3.0	3.0	3.0	2.0	2.0
DARWIN	1.0	1.0	1.0	1.5	2.0	2.5
GOLD COAST	4.0	6.5	3.0	2.5	3.0	3.0
MELBOURNE	2.0	2.0	3.0	3.0	3.0	3.0
PERTH	0.8	0.0	0.0	1.5	2.5	3.0
SYDNEY	4.5	7.0	4.2	4.9	3.9	3.9
TOWNSVILLE	3.0	3.0	4.0	4.0	4.0	3.1
WELLINGTON	3.0	4.5	4.5	4.0	3.0	3.0

NP: Not published

18 I

### AUSTRALIAN CONSTRUCTION

Building Cost Ranges	20
Building Services Cost Ranges	24
RLB Tender Price Index	28
Definitions	30
Acknowledgements	32

### AUSTRALIAN CONSTRUCTION BUILDING COST RANGES

#### CONSTRUCTION RATES

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

Specific exclusions:

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

CITY	ADEL	AIDE	BRISBANE		
COST RANGE PER	\$/	M <sup>2</sup>	\$/M <sup>2</sup>		
GROSS FLOOR AREA		HIGH	LOW	HIGH	
OFFICE BUILDINGS					
Prestige, CBD					
10 TO 25 STOREYS (75-80% EFFICIENCY)	2,600	3,400	2,600	3,700	
25 TO 40 STOREYS (70-75% EFFICIENCY)	2,950	3,800	2,700	3,900	
40 TO 55 STOREYS (68-73% EFFICIENCY)	-	-	2,900	4,200	
Investment, CBD					
UP TO 10 STOREYS (81-85% EFFICIENCY)	2,100	2,600	2,200	2,600	
10 TO 25 STOREYS (76-81% EFFICIENCY)	2,350	2,950	2,300	3,000	
25 TO 40 STOREYS (71-76% EFFICIENCY)	2,550	3,150	2,400	3,500	
Investment, other than CBD					
WALK UP (83-87% EFFICIENCY)	1,750	2,250	1,600	2,200	
UP TO 10 STOREYS (82-86% EFFICIENCY)	2,000	2,500	1,800	2,400	
10 TO 25 STOREYS (77-82% EFFICIENCY)	-	-	2,000	2,600	
HOTELS					
Multi-Storey (ex FF&E)					
FIVE STAR	3,600	4,500	4,000	5,500	
FOUR STAR	3,100	4,200	3,400	4,500	
THREE STAR	2,600	3,500	2,800	4,000	
CAR PARK					
OPEN DECK MULTI-STOREY	625	925	900	1,300	
BASEMENT: CBD	1,325	1,950	1,700	2,200	
BASEMENT: OTHER THAN CBD	925	1,750	1,100	1,800	
UNDERCROFT: OTHER THAN CBD	575	875	650	850	
INDUSTRIAL BUILDINGS					
6.00 M to underside of truss and 4,500 M <sup>2</sup> Gross Floor Area with:					
ZINCALUME METAL CLADDING	625	1,000	700	1,000	
PRECAST CONCRETE CLADDING	725	1,100	800	1,100	
Attached Airconditioned Offices					
200 M <sup>2</sup>	1,550	2,150	1,800	2,500	
400 M <sup>2</sup>	1,550	2,150	1,800	2,300	

### NOTES

- i Car Parking costs have been excluded to arrive at the various building rates.
- ii Refer to Page 30 for definitions.
- 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 =  $/M^2 \div$  the efficiency percentage.

### Refer to www.rlbintelligence.com for updates.

CANB	ERRA	DAR	DARWIN		MELBOURNE		ктн	SYD	NEY
\$/	M <sup>2</sup>	\$/	\$/M <sup>2</sup>		\$/M <sup>2</sup> \$/M <sup>2</sup>		\$/	'M²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
3,400	5,000	3,100	4,000	3,150	3,600	3,000	4,000	3,550	4,100
3,650	5,400	3,250	4,150	3,700	4,000	3,300	4,400	4,150	4,750
-	-	-	-	3,800	4,250	3,500	4,700	4,600	5,200
2,750	3,900	2,400	3,450	2,450	2,900	2,400	3,300	2,650	3,100
2,850	4,050	2,550	3,800	2,800	3,200	2,500	3,500	3,150	3,500
2,900	4,200	-	-	2,850	3,350	2,600	3,750	3,300	3,850
1,460	2,450	2,200	2,800	1,600	2,300	1,800	2,600	2,100	2,500
2,100	2,900	2,300	3,350	1,820	2,650	2,000	2,800	2,300	3,000
2,200	3,400	2,550	3,450	2,200	2,950	2,200	3,000	2,650	3,400
4,150	6,300	3,600	4,450	4,050	5,300	3,600	4,800	4,450	6,000
3,600	5,900	3,350	4,050	3,650	4,700	3,100	4,000	3,750	5,200
3,050	5,200	2,850	3,550	2,850	3,700	2,600	3,600	3,150	4,000
770	1,300	750	1,260	690	1,120	650	1,000	770	1,160
1,040	1,800	1,180	1,540	1,180	1,540	1,800	3,100	1,120	1,800
1,020	1,800	1,040	1,520	1,120	1,440	1,400	2,800	1,100	1,660
770	1,180	720	1,020	750	900	700	1,100	-	-
,,,,	1,100	120	1,020	100	500	,00	1,100		
720	900	800	1,400	580	1,020	550	800	730	910
830	1,360	840	1,420	690	1,160	630	1,050	800	1,160
1,700	2,700	1,700	2,400	1,560	2,000	1,400	1,900	1,960	2,600
1,620	2,600	1,700	2,400	1,500	1,940	1,350	1,850	2,050	2,800

### AUSTRALIAN CONSTRUCTION BUILDING COST RANGES

All costs current as at Fourth Quarter 2017.

CITY	ADEL	AIDE	BRISBANE		
COST RANGE PER	\$/	M²	\$/M <sup>2</sup>		
GROSS FLOOR AREA		HIGH	LOW	HIGH	
AGED CARE					
SINGLE STOREY FACILITY	2,100	2,700	2,300	2,900	
PRIVATE HOSPITALS					
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	
CINEMAS					
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	2,750	3,650	2,500	3,500	
REGIONAL SHOPPING CENTRES					
DEPARTMENT STORE	1,375	2,400	1,600	2,100	
SUPERMARKET/VARIETY STORE	1,300	1,750	1,600	2,000	
DISCOUNT DEPARTMENT STORE	1,100	1,350	1,400	2,000	
MALLS	1,575	3,000	2,000	3,500	
SPECIALTY SHOPS	1,000	1,675	1,200	1,600	
SMALL SHOPS AND SHOWROOMS					
SMALL SHOPS & SHOWROOMS	1,300	1,825	1,200	1,800	
RESIDENTIAL					
SINGLE & DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	1,575	3,450	1,800	4,000	
RESIDENTIAL UNITS					
WALK-UP 85 TO 120 M <sup>2</sup> /UNIT	1,650	2,750	1,600	3,400	
TOWNHOUSES 90 TO 120 M <sup>2</sup> /UNIT	1,725	2,625	1,300	2,800	
MULTI-STOREY UNITS					
Up to 10 storeys with lift					
UNITS 60-70 M <sup>2</sup>	2,350	3,450	2,300	3,000	
UNITS 90-120 M <sup>2</sup>	2,250	3,350	2,300	2,900	
Over 10 and up to 20 storeys					
UNITS 60-70 M <sup>2</sup>	2,450	3,550	2,600	3,200	
UNITS 90-120 M <sup>2</sup>	2,400	3,450	2,600	3,100	
Over 20 and up to 40 storeys					
UNITS 60-70 M <sup>2</sup>	2,650	3,450	2,700	3,400	
UNITS 90-120 M <sup>2</sup>	2,600	3,400	2,700	3,200	
Over 40 and up to 80 storeys					
UNITS 60-70 M <sup>2</sup>	-	-	3,000	4,000	
UNITS 90-120 M <sup>2</sup>	-	-	2,900	3,800	

### Building Costs include Building Works and Building Services

CANBERRA		DAR	WIN	MELBO	OURNE	PE	RTH	SYDNEY		
\$/	M <sup>2</sup>	\$/	M <sup>2</sup>	\$/	'M²	\$/	'M²	\$/	'M²	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	
2,050	3,400	2,400	3,550	1,840	2,950	1,750	2,800	2,650	3,450	
4,300	7,100	3,850	4,600	2,750	3,250	3,400	4,300	2,850	3,600	
4,700	7,800	4,500	5,500	3,050	4,200	3,600	4,500	3,600	4,750	
3,000	4,100	2,700	3,450	2,450	3,250	2,200	2,700	3,300	4,550	
2,400	3,150	1,700	2,400	2,050	2,450	1,900	2,600	1,520	2,150	
1,440	2,400	1,800	2,450	1,280	1,900	1,200	1,750	1,480	2,900	
1,320	1,880	1,640	2,250	1,320	1,680	1,200	1,700	1,300	1,600	
2,350	3,950	1,740	2,600	2,150	3,150	1,900	2,900	1,960	4,150	
1,220	1,980	1,440	2,050	1,220	1,680	1,000	1,500	1,700	2,550	
1,240	2,500	1,240	2,100	1,220	1,640	1,000	2,500	1,520	2,000	
1,240	2,500	1,240	2,100	1,220	1,040	1,000	2,500	1,520	2,000	
1,620	3,250	1,780	2,750	1,640	3,250	1,400	2,700	1,700	4,800	
_,	-,	-,	_,	-,	-,	-,	_,	-,	.,	
1,720	4,200	1,980	2,400	1,540	3,250	1,450	2,900	-	-	
1,720	4,100	1,980	2,400	1,500	2,800	1,450	2,900	-	-	
2,850	4,300	2,050	2,450	2,350	3,000	2,000	3,000	2,850	3,650	
2,800	4,200	2,050	2,400	2,350	3,050	1,900	2,900	2,600	3,400	
3,100	4,550	2,100	2,550	2,700	3,400	2,300	3,300	3,000	4,000	
3,050	4,550	2,050	2,500	2,650	3,450	2,200	3,200	2,850	3,750	
7.550	4.050	0.750	0.050	7 150	7 700	0.000	7.000	7.000	4.050	
3,550 3,450	4,950 4,700	2,350	2,650	3,150	3,700	2,800	3,600	3,900	4,850	
3,450	4,700	2,300	2,600	2,950	3,600	2,700	3,500	3,700	4,400	
-	-			3,550	4,200	3,300	4,100	4,500	5,600	
-	-			3,400	4,200	3,200	4,100	4,300	5,400	
				3,400	+,100	3,200	4,000	+,550	3,400	

### Refer to <u>www.rlbintelligence.com</u> for updates.

### AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2017.

		AIDE	BRISBANE		
COST RANGE PER GROSS FLOOR AREA	\$/	M <sup>2</sup>	\$/	'M²	
	LOW	HIGH	LOW	HIGH	
OFFICE BUILDINGS					
Prestige, CBD					
10 TO 25 STOREYS (75-80% EFFICIENCY)	748	1,122	789	1,153	
25 TO 40 STOREYS (70-75% EFFICIENCY)	799	1,222	870	1,236	
40 TO 55 STOREYS (68-73% EFFICIENCY)	-	-	1,016	1,409	
Investment, CBD					
UP TO 10 STOREYS (81-85% EFFICIENCY)	731	998	719	945	
10 TO 25 STOREYS (76-81% EFFICIENCY)	733	1,047	772	1,014	
25 TO 40 STOREYS (71-76% EFFICIENCY)	753	1,096	814	1,135	
INVESTMENT, OTHER THAN CBD					
WALK UP (83-87% EFFICIENCY)	398	580	523	648	
UP TO 10 STOREYS (82-86% EFFICIENCY)	551	778	657	917	
10 TO 25 STOREYS (77-82% EFFICIENCY)	-	-	728	1,028	
HOTELS					
Multi-Storey					
FIVE STAR	1,037	1,456	963	1,211	
FOUR STAR	931	1,277	937	1,187	
THREE STAR	878	1,071	895	1,141	
CAR PARK					
OPEN DECK MULTI-STOREY	132	268	136	271	
BASEMENT: CBD	214	422	231	407	
BASEMENT: OTHER THAN CBD	213	422	231	407	
UNDERCROFT: OTHER THAN CBD	105	118	77	104	
INDUSTRIAL BUILDINGS					
6.00 M to underside of truss and 4,500 M² Gross Floor Area with:					
ZINCALUME METAL CLADDING	213	302	197	351	
PRECAST CONCRETE CLADDING	213	345	197	351	
Attached Airconditioned Offices					
200 M <sup>2</sup>	481	631	473	602	
400 M <sup>2</sup>	474	624	473	602	

### 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		MELBO	OURNE	PERTH		SYD	NEY
\$/	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
878	1,274	1,160	1,523	799	1,241	930	1,340	980	1,320
931	1,381	1,246	1,594	944	1,318	965	1,395	1,157	1,318
-	-	-	-	999	1,411	990	1,470	1,292	1,459
728	1,167	911	1,321	623	1,066	695	1,125	669	948
771	1,167	983	1,445	691	1,133	720	1,185	793	1,036
771	1,220	-	-	762	1,190	760	1,225	878	1,141
460	632	841	1,082	433	700	420	600	453	658
610	878	882	1,281	541	858	565	820	657	913
674	996	971	1,326	598	973	660	920	801	1,052
1,252	1,702	1,394	1,753	1,725	2,178	1,235	1,750	1,155	1,494
1,142	1,526	1,272	1,539	1,246	1,859	1,025	1,465	1,025	1,388
900	1,307	1,122	1,386	942	1,421	825	1,265	874	1,156
170	276	201	363	96	282	135	300	63	156
233	467	328	449	168	365	200	405	237	323
170	456	298	449	158	334	185	390	145	277
64	117	135	282	31	62	135	305	46	66
225	396	210	499	180	320	160	335	117	206
225	385	225	518	180	320	170	355	117	208
513	685	661	926	464	644	385	630	485	865
513	620	661	926	464	855	385	595	485	878

### AUSTRALIAN CONSTRUCTION BUILDING SERVICES COST RANGES

All costs current as at Fourth Quarter 2017.

	ADEL	AIDE	BRISBANE		
COST RANGE PER GROSS FLOOR AREA	\$/	M <sup>2</sup>	\$/M <sup>2</sup>		
GROUD FEODRAREA	LOW	HIGH	LOW	HIGH	
AGED CARE					
SINGLE STOREY FACILITY	430	699	497	797	
PRIVATE HOSPITALS					
Low Rise Hospital					
45-60 M <sup>2</sup> GFA/BED	1,234	1,500	906	1,622	
55-80 M <sup>2</sup> GFA/BED WITH MAJOR OPERATING THEATRE	1,447	1,924	1,373	2,070	
CINEMAS					
GROUP COMPLEX, 2,000-4,000 SEATS. (WARM SHELL)	794	1,071	624	969	
REGIONAL SHOPPING CENTRES					
DEPARTMENT STORE	447	719	507	799	
SUPERMARKET/VARIETY STORE	433	674	500	741	
DISCOUNT DEPARTMENT STORE	440	616	490	652	
MALLS	527	799	580	873	
SPECIALTY SHOPS	302	577	478	683	
SMALL SHOPS AND SHOWROOMS					
SMALL SHOPS & SHOWROOMS	411	642	340	647	
RESIDENTIAL SINGLE & DOUBLE STOREY DWELLINGS	252	554	255	559	
(CUSTOM BUILT) RESIDENTIAL UNITS					
WALK-UP 85 TO 120 M <sup>2</sup> /UNIT	212	480	243	483	
TOWNHOUSES 90 TO 120 M <sup>2</sup> /UNIT	215	488	243	474	
MULTI-STOREY UNITS	210	.00	2.10		
Up to 10 storeys with lift					
UNITS 60-70 M <sup>2</sup>	476	749	445	852	
UNITS 90-120 M <sup>2</sup>	455	703	424	818	
Over 10 and up to 20 storeys					
UNITS 60-70 M <sup>2</sup>	482	811	539	850	
UNITS 90-120 M <sup>2</sup>	468	796	512	809	
Over 20 and up to 40 storeys					
UNITS 60-70 M <sup>2</sup>	527	913	614	972	
UNITS 90-120 M <sup>2</sup>	511	884	592	932	
Over 40 and up to 80 storeys					
UNITS 60-70 M <sup>2</sup>	-	-	825	1,097	
UNITS 90-120 M <sup>2</sup>	-	-	765	1.040	

CANB	CANBERRA		DARWIN		MELBOURNE		PERTH		NEY
\$/	M <sup>2</sup>	\$/	M <sup>2</sup>	\$/	'M²	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
416	776	883	1,322	464	1,087	670	1,100	387	723
1,087	1,435	1,433	1,680	983	1,496	1,130	1,500	994	1,307
1,323	1,895	1,580	1,981	1,181	2,039	1,275	1,710	1,334	1,881
790	951	1,013	1,278	618	906	695	910	968	1,418
742	853	642	877	525	811	630	870	484	673
465	698	662	920	417	773	540	775	484	676
465	631	602	840	366	670	555	695	457	609
576	853	577	918	484	901	-	-	517	835
410	642	519	762	335	675	360	600	499	753
244	666	417	760	217	645	270	570	338	549
236	525	336	649	206	628	235	785	189	716
234	658	400	574	206	567	240	470	214	670
123	658	400	574	206	546	240	470	185	634
547	889	654	851	510	867	495	860	615	886
547	832	620	809	505	836	485	830	580	862
593	889	648	846	546	892	555	860	702	960
593	980	636	829	546	861	550	825	668	881
708	1,005	712	875	639	977	655	955	751	1,097
662	1,005	696	855	618	887	630	935	739	1,032
-	-	-	-	809	1,202	870	1,110	987	1,311
-	-	-	-	752	1,151	850	1,095	962	1,301

### AUSTRALIAN CONSTRUCTION RLB TENDER PRICE INDEX

	ADEL	AIDE	BRISE	BANE	CANBERRA		
DATE	TPI	CPI	TPI	CPI	TPI	CPI	
DEC-1972	11.7	11.7	12.7	12.7			
DEC-1973	14.7	13.3	15.6	14.5			
DEC-1974	19.3	15.6	19.8	16.7			
DEC-1975	22.6	17.7	20.6	19.1			
DEC-1976	26.6	20.7	21.8	21.8			
DEC-1977	28.9	22.7	23.6	23.7			
DEC-1978	30.6	24.2	24.4	25.8	24.4	24.4	
DEC-1979	32.6	26.7	26.9	28.1	26.7	26.9	
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 MAR-2017	143.7	117.9	139.7	126.0	154.3 155.3	116.4	
	144.8	118.4	140.8	126.3		117.2	
JUN-2017	145.9	118.5	142.5	126.9	156.4	117.2	
SEP-2017	147.0	119.8	143.9	127.3	157.5	118.3	
DEC-2017	148.1		145.3		158.6		

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		PER	тн	SYDNEY		
TPI	CPI	TPI	CPI	TPI	CPI	TPI	CPI	
		13.8	13.8	14.8	14.8	14.5	14.5	
		15.3	15.7	17.0	16.4	16.2	16.4	
		19.4	18.2	21.6	19.2	21.4	19.1	
		22.6	20.9	26.3	22.0	24.6	21.7	
		25.4	23.9	30.5	25.7	25.7	24.5	
		27.7	26.2	34.2	28.6	27.7	26.5	
		29.4	28.2	35.7	30.6	29.3	28.7	
		32.3	31.0	36.0	33.5	32.5	31.7	
		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	
162.7	132.0	150.8	137.1	150.0	145.0	169.1	142.6	
163.1	132.3	152.0	137.2	150.0	145.0	170.8	143.1	
163.5	133.1	153.1	137.8	150.0	145.7	172.6	144.2	
163.9		154.2		150.0		174.4		

| 29

### 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 International Building Cost Ranges on page 20).

RATING	GFA PER ROOM						
RATING	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>				

### HOTELS

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

### ACKNOWLEDGEMENTS

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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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### SYDNEY CONSTRUCTION COSTS

Building Services	34
Unit Costs	38
Siteworks	39
Demolition	40
Hotel Furniture, Fittings & Equipment	40
Office Fitout	41
Recreational Facilities	42
Vertical Transportation	44

### SYDNEY CONSTRUCTION BUILDING SERVICES COSTS

All costs current as at Fourth Quarter 2017.

	SPECIAL EQUIPMENT		HYDR	AULIC	
COST RANGE PER	\$/	\$/M <sup>2</sup>		\$/M <sup>2</sup>	
GROSS FLOOR AREA	LOW	HIGH	LOW	HIGH	
OFFICE BUILDINGS					
Prestige, CBD					
10 TO 25 STOREYS (75-80% EFFICIENCY)	38	54	94	131	
25 TO 40 STOREYS (70-75% EFFICIENCY)	43	54	111	134	
40 TO 55 STOREYS (68-73% EFFICIENCY)	47	54	124	143	
Investment, CBD					
UP TO 10 STOREYS (81-85% EFFICIENCY)	-	-	77	95	
10 TO 25 STOREYS (76-81% EFFICIENCY)	18	43	77	107	
25 TO 40 STOREYS (71-76% EFFICIENCY)	18	43	87	120	
Investment, other than CBD					
1 TO 3 STOREYS (81-85% EFFICIENCY)	-	12	72	96	
UP TO 10 STOREYS (82-86% EFFICIENCY)	13	18	84	96	
10 TO 25 STOREYS (77-82% EFFICIENCY)	18	48	89	106	
HOTELS					
Multi-Storey					
FIVE STAR	36	59	225	284	
FOUR STAR	29	54	215	276	
THREE STAR	18	36	191	241	
CAR PARK					
OPEN DECK MULTI-STOREY	-	-	19	24	
BASEMENT: CBD	-	-	24	42	
BASEMENT: OTHER THAN CBD	-	-	19	36	
UNDERCROFT: OTHER THAN CBD	-	-	19	25	
INDUSTRIAL BUILDINGS					
6.00 M to underside of truss and 4,500 M <sup>2</sup> Gross Floor Area with:					
ZINCALUME METAL CLADDING	-	-	52	60	
PRECAST CONCRETE CLADDING	-	-	52	60	
Attached Air Conditioned Offices					
200 M <sup>2</sup>	-	-	72	95	
400 M <sup>2</sup>	-	-	72	95	

#### SPECIAL EQUIPMENT

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

#### HYDRAULIC

S 34

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

FI	RE	ME	сн.		ICAL SPORT		DING GT	ELECT	RICAL	то	TAL
\$/	M <sup>2</sup>	\$/	M²	\$/	M²	\$/	Μ²	\$/	Μ²	\$/M <sup>2</sup>	
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
70	99	353	423	193	260	37	90	195	263	980	1,320
77	99	363	435	266	217	54	90	243	289	1,157	1,318
83	99	409	446	289	329	73	90	267	298	1,292	1,459
14	89	277	355	146	178	14	32	141	199	669	948
60	93	297	366	171	189	25	44	145	194	793	1,036
70	93	308	366	204	249	20	50	171	220	878	1,141
14	37	243	283	-	53	12	32	112	145	453	658
60	84	254	323	110	166	12	32	124	194	657	913
70	84	287	357	171	215	20	37	146	205	801	1,052
70	100	387	440	181	251	36	74	220	286	1,155	1,494
70	100	311	415	181	217	36	63	183	263	1,025	1,388
13	78	298	371	144	171	26	32	184	227	874	1,156
13	25	-	19	-	29	-	12	31	47	63	156
64	81	52	70	37	52	12	20	48	58	237	323
13	64	40	64	25	35	-	20	48	58	145	277
7	9	-	-	-	-	-	7	20	25	46	66
13	25	-	13	-	-	-	6	52	102	117	206
13	25	-	13	-	-	-	6	52	104	117	208
13	32	244	324	-	181	20	50	136	183	485	865
13	32	244	328	-	179	20	50	136	194	485	878

#### 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.

### SYDNEY CONSTRUCTION BUILDING SERVICES COSTS

		SPECIAL EQUIPMENT		AULIC
COST RANGE PER	<u> </u>	M²	\$/M <sup>2</sup>	
GROSS FLOOR AREA	LOW	HIGH	LOW	HIGH
AGED CARE				
SINGLE STOREY FACILITY	-	12	156	240
PRIVATE HOSPITALS				
Low Rise Hospital				
45-60 M <sup>2</sup> GFA/BED	24	48	168	215
55-80 M <sup>2</sup> GFA/BED WITH MAJOR OPERATING THEATRE	43	145	190	217
CINEMAS				
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	12	25	96	154
REGIONAL SHOPPING CENTRES				
DEPARTMENT STORE	-	19	72	85
SUPERMARKET/VARIETY STORE	-	-	74	85
DISCOUNT DEPARTMENT STORE	-	19	59	77
MALLS	-	32	69	88
SPECIALTY SHOPS	-	-	71	90
SMALL SHOPS AND SHOWROOMS				
SMALL SHOPS & SHOWROOMS	-	-	59	83
RESIDENTIAL				
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT)	-	13	89	176
RESIDENTIAL UNITS				
WALK-UP 85 TO 120 M <sup>2</sup> /UNIT	-	-	107	225
TOWNHOUSES 90 TO 120 M <sup>2</sup> /UNIT	-	-	84	225
MULTI-STOREY UNITS				
Up to 10 storeys with lift				
UNITS 60-70 M <sup>2</sup>	-	13	179	227
UNITS 90-120 M <sup>2</sup>	-	13	169	208
Over 10 and up to 20 storeys				
UNITS 60-70 M <sup>2</sup>	-	13	178	239
UNITS 90-120 M <sup>2</sup>	-	13	167	216
Over 20 and up to 40 storeys				
UNITS 60-70 M <sup>2</sup>	8	42	225	273
UNITS 90-120 M <sup>2</sup>	8	43	225	261
Over 40 and up to 80 storeys				
UNITS 60-70 M <sup>2</sup>	8	43	240	277
UNITS 90-120 M <sup>2</sup>	8	43	227	266

#### 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.

FI	RE	ME	сн.		ICAL SPORT		DING GT	ELECTRICAL		то	TAL
\$/	M <sup>2</sup>	\$/	M <sup>2</sup>	\$/	M²	\$/	\$/M <sup>2</sup> \$/M <sup>2</sup> \$/M <sup>2</sup>		\$/M <sup>2</sup>		M²
LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
13	60	100	227	-	-	7	18	111	166	387	723
37	77	451	524	48	83	32	45	234	315	994	1,307
53	95	623	840	71	98	84	97	270	389	1,334	1,881
71	95	399	561	181	237	13	56	196	290	968	1,418
66	73	195	264	-	-	-	12	151	220	484	673
53	71	187	275	-	-	-	12	170	233	484	676
46	76	163	209	-	-	31	50	158	178	457	609
53	80	186	313	-	-	-	27	209	295	517	835
55	84	228	325	-	-	-	20	145	234	499	753
13	30	163	303	-	-	-	12	103	121	338	549
7	30	13	270	-	-	-	20	80	207	189	716
7	24	13	204			7	25	80	192	214	670
7	30	13	187			7	25	74	167	185	634
,	50	13	107			,	25	74	107	105	004
13	53	156	215	121	153	11	30	135	195	615	886
13	53	154	220	109	143	11	30	124	195	580	862
53	71	190	236	121	164	11	30	149	207	702	960
47	59	179	226	115	153	11	30	149	184	668	881
66	84	215	330	66	88	22	36	149	244	751	1,097
66	84	203	309	66	72	22	36	149	227	739	1,032
71	91	296	390	167	227	22	38	183	245	987	1,311
71	91	284	380	167	227	22	38	183	256	962	1,301

ELECTRICAL

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

### SYDNEY CONSTRUCTION UNIT COSTS

ITEM	CONSTR		PER
	LOW	HIGH	
HOTELS			
Multi-Storey (excluding basements)			
FIVE STAR	495,000	600,000	BEDROOM
FOUR STAR	375,000	520,000	BEDROOM
THREE STAR	235,000	300,000	BEDROOM
CAR PARKS			
Based on 30 M <sup>2</sup> per car			
OPEN DECK MULTI-STOREY	25,500	41,250	CAR
BASEMENT - CBD	40,250	62,500	CAR
BASEMENT - OTHER THAN CBD	39,750	57,500	CAR
UNDERCROFT - OTHER THAN CBD	19,500	33,750	CAR
AGED CARE			
FACILITY	175,000	225,000	BEDROOM
PRIVATE HOSPITALS Low Rise Hospital			
45-60 M <sup>2</sup> GFA/BED	170,000	220,000	BED
55-80 M <sup>2</sup> GFA/BED	285,000	380,000	BED
CINEMAS			
GROUP COMPLEX, 2,000-4,000 SEATS (WARM SHELL)	9,800	13,750	SEAT
HOUSING			
SINGLE AND DOUBLE STOREY DWELLINGS (CUSTOM BUILT) - 325 M <sup>2</sup>	550,000	1,575,000	HOUSE
RESIDENTIAL UNITS (EXCL CARPARK/SIT	E WORKS)		
TOWNHOUSES (90-120 M <sup>2</sup> )	190,000	480,000	UNIT
1 TO 3 STOREY UNITS (85-120 M <sup>2</sup> )	215,000	460,000	UNIT
MULTI STOREY RESIDENTIAL UNITS Up to 10 storeys with lift			
UNITS 60-70 M <sup>2</sup>	200,000	250,000	UNIT
UNITS 90-120 M <sup>2</sup>	235,000	400,000	UNIT
Over 10 and up to 20 storeys			
UNITS 60-70 M <sup>2</sup>	215,000	280,000	UNIT
UNITS 90-120 M <sup>2</sup>	255,000	455,000	UNIT
Over 20 and up to 40 storeys			
UNITS 60-70 M <sup>2</sup>	275,000	340,000	UNIT
UNITS 90-120 M <sup>2</sup>	320,000	500,000	UNIT
Over 40 and up to 80 storeys			
UNITS 60-70 M <sup>2</sup>	315,000	385,000	UNIT
UNITS 90-120 M <sup>2</sup>	390,000	640,000	UNIT

### SYDNEY CONSTRUCTION SITEWORKS COSTS

#### LANDSCAPING

	LOW	HIGH	PER
LIGHT LANDSCAPING TO LARGE AREAS WITH MINIMAL PLANTING AND SITE FORMATION BUT EXCLUDING TOPSOIL AND GRASSING	62,500	85,000	HECTARE
DENSE LANDSCAPING AROUND BUILDINGS INCLUDING SHRUBS, PLANTS, TOPSOIL AND GRASSING	140	180	$M^2$
GRASSING ONLY TO LARGE AREAS INCLUDING TOPSOIL, SOWING AND TREATING	40	50	$M^2$

#### **CAR PARKS - ON GROUND**

Based on  $30 \text{ M}^2$  overall area per car with asphalt paving including sub base and sealing.

	LOW	HIGH	PER
LIGHT DUTY PAVING.	1,760	3,950	CARSPACE
HEAVY DUTY PAVING TO FACTORY TYPE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, DRAINAGE AND KERB TREATMENT	4,050	4,850	CARSPACE
LIGHT DUTY PAVING TO SHOPPING CENTRE COMPLEX, LARGE AREA WITH MINIMAL SITE FORMATION, AND INCLUDING DRAINAGE AND KERB TREATMENT	4,600	6,300	CARSPACE

#### ROADS

Asphalt finish including kerb, channel and drainage.

	LOW	HIGH	PER
RESIDENTIAL ESTATE 6.80 METRES WIDE EXCLUDING FOOTPATH AND NATURE STRIP	1,260	1,980	М
INDUSTRIAL ESTATE 10.4 METRES WIDE INCLUDING MINIMAL TO EXTENSIVE FORMATION	1,920	3,000	М

### SYDNEY 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	110	160	M <sup>2</sup>
SINGLE/DOUBLE STOREY BRICK HOUSE WITH TILED ROOF	120	180	M <sup>2</sup>
SINGLE STOREY FACTORY/ WAREHOUSE WITH REINFORCED CONCRETE GROUND SLAB, TIMBER OR STEEL FRAMED WALLS			
METAL CLAD	120	140	M <sup>2</sup>
BRICK CLAD	140	150	$M^2$
TWO STOREY OFFICE BUILDING WITH REINFORCED CONCRETE FRAME MASONRY CLADDING AND METAL ROOF	150	180	M <sup>2</sup>
MULTI STOREY OFFICE BUILDING UP TO 15 FLOORS WITH MASONRY CLADDING			
REINFORCED CONCRETE	210	300	$M^2$
STRUCTURAL STEEL	260	330	$M^2$
MULTI-STOREY OFFICE BUILDING UP TO 25 STOREYS, CONSTRUCTED OF STEEL FRAME WITH MASONRY CLADDING	260	370	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
THREE STAR RATING	26,250	48,500	BEDROOM
FOUR STAR RATING	33,750	57,500	BEDROOM
FIVE STAR RATING	55,000	105,000	BEDROOM

s 40

### SYDNEY 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	910	1,360	1,200	1,700	$M^2$
MAJOR COMPANY HEADQUARTERS	1,200	1,760	1,260	2,200	$M^2$
SOLICITORS, FINANCIERS	1,420	2,300	1,920	3,600	$M^2$
EXECUTIVE AREAS AND FRONT OF HOUSE	-	-	6,000	11,250	$M^2$
COMPUTER AREAS	2,650	3,400	-	-	$M^2$

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

#### WORKSTATIONS

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

TYPE OF WORKSTATION	LOW	HIGH	PER
CALL CENTRE	2,000	3,400	EACH
SECRETARIAL	2,850	7,700	EACH
TECHNICAL STAFF	3,650	9,800	EACH
EXECUTIVE	9,300	33,750	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	990	2,650	$M^2$
CBD OFFICES CORE UPGRADE (EXCLUDING LIFTS MODERNISATION)	720	1,780	$M^2$

### SYDNEY 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	1,220	1,600	$M^2$

#### SWIMMING POOL CENTRES

	LOW	HIGH	PER
INCLUDING FOYER, KIOSK, OFFICE, LOCKERS, ADMINISTRATION OFFICES, CHANGE ROOMS	1,980	3,050	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)	440,000	625,000	EACH
EXTRA FOR HEATING	24,000	47,000	EACH
EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	156,000	260,000	EACH
EXTRA FOR WET DECK	60,000	93,000	EACH
OLYMPIC (50.0 X 21.5 M)	1,725,000	2,450,000	EACH
EXTRA FOR HEATING	45,000	78,000	EACH
EXTRA FOR FILTRATION AND DOSING     PLANT	315,000	540,000	EACH
EXTRA OVER FILTRATION AND DOSING PLANT FOR OZONE BASED DOSING SYSTEM	102,900	186,000	EACH

#### SMALL BOAT AND YACHT MARINA BERTHS

Floating pontoon walk-ways serviced with power and water.

	LOW	HIGH	PER
DOUBLE LOADED BERTHS	25,250	36,500	BERTH
SINGLE LOADED BERTHS	31,750	40,750	BERTH
SUPER YACHTS	255,000	340,000	BERTH

### SYDNEY 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	67,500	82,500	COURT
RED POROUS (EN-TOUT-CAS)	27,500	37,000	COURT
SYNTHETIC ACRYLIC (FLEXIPAVE)	46,750	55,000	COURT
ASPHALT (5 MM)	37,500	105,000	COURT
REBOUND ACE	110,000	125,000	COURT
CONCRETE	44,500	52,500	COURT
FLOODLIGHTING	-	-	COURT

#### GOLF COURSES

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

	LOW	HIGH	PER
SANDY SOIL SITE, REQUIRING MINIMAL EXCAVATION AND SITE PREPARATION	8,650,000	15,650,000	COURSE
SITE REQUIRING ROCK EXCAVATION	14,850,000	19,650,000	COURSE
SWAMPY SITE REQUIRING DREDGING FOR LAKES, ETC. AND EXTENSIVE FILL	17,450,000	40,225,000	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	50	60	$M^2$

#### GRANDSTANDS

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

	LOW	HIGH	PER
GRANDSTAND	6,600	14,000	SEAT

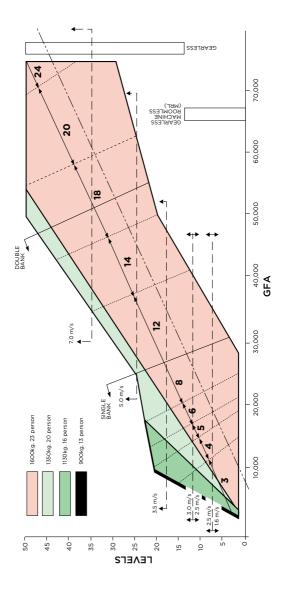
### SYDNEY CONSTRUCTION VERTICAL TRANSPORTATION

#### 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.



### SYDNEY CONSTRUCTION VERTICAL TRANSPORTATION

APPLICATION	LIFT TYPE	SPEED M/S			COST \$	ADDITIONAL FLOOR	EXPRESS FLOOR
		11/5	SERVED	LOW	HIGH	RATE	RATE
OFFICE & RESIDENTIAL	ELECTRO-HYDRAULIC PASSENGER	0.5	2	104,000	123,000	13,000	8,200
	GEARLESS TO 17 PASSENGER	1	5	133,000	153,000	11,100	7,100
	GEARLESS UP TO 17 PASSENGER	1.6	8	171,000	197,000	11,100	7,100
	GEARLESS	2.5	10	457,000	521,000	13,900	8,800
	GEARLESS	3.5	10	505,000	543,000	13,900	8,800
	GEARLESS	4	10	543,000	568,000	13,900	8,800
	GEARLESS	5	10	557,000	599,000	13,900	8,800
	GEARLESS	6	10	600,000	625,000	13,900	8,800
	GEARLESS	7	10	645,000	690,000	13,900	8,800
	GEARLESS	8	10	720,000	784,000	14,400	9,300
HOSPITAL	GEARED UP TO 40 PASSENGER	2	5	425,000	505,000	16,000	10,400
	GEARLESS	2.5	10	525,000	560,000	15,000	10,400
LARGE GOODS	GEARLESS MRL TO 2,000KG	1.6	10	358,000	394,000	15,000	10,400
	ELECTRO-HYDRAULIC TO 5,000KG	0.5	2	292,000	343,000	15,500	10,400
	GEARLESS 2,500KG	2.5	10	560,000	604,000	14,900	8,700
ESCALATORS	RISE 2,600 TO 5,000MM	0.5	-	178,000	270,000	-	-
MOVING WALKS	2,500 TO 5,000MM	0.5	-	347,000	423,000	-	-
SERVICE LIFT	BENCH HEIGHT UNIT	0.2	3	33,000	38,000	4,800	1,450
	LARGER UNIT	0.2	3	49,000	57,000	5,300	1,650
DISABLED PLATFORM	TO 1,000MM	0.1	2	33,000	38,000	-	-
LIFT	1,000 TO 4,000MM	0.1	2	39,000	52,000	-	-

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

# SYDNEY DEVELOPMENT

Stamp Duties	48
Land Tax	49
Planning – Car Parking	50
Land Values	51
Rental Rates	52
Office Sector Data	53
Retail Sector Data	56
Industrial Sector Data	58
Construction Work Done	59
RLB Market Activity Cycle	63

### SYDNEY DEVELOPMENT STAMP DUTIES

Stamp Duty in NSW is liable for a sale or transfer of assets (including land and improvements). The following types of assets cease to be dutiable property from 1 July 2016:

- 1. A business asset, being, at any relevant time:
  - i. The goodwill of a NSW business.
  - ii. Intellectual property.
  - iii. A statutory licence or permission under a Commonwealth law.
- 2. A statutory licence or permission under a NSW law.
- 3. A gaming machine entitlement.

VALUE OF TRANSACTION	RATE OF DUTY
\$0-\$14,000	\$1.25 FOR EVERY \$100 OR PART OF THE VALUE
\$14,001-\$30,000	\$175 PLUS \$1.50 FOR EVERY \$100, THAT THE VALUE > \$14,000
\$30,001-\$80,000	\$415 PLUS \$1.75 FOR EVERY \$100, THAT THE VALUE > \$30,000
\$80,001-\$300,000	\$1,290 PLUS \$3.50 FOR EVERY \$100, THAT THE VALUE > \$80,000
\$300,001-\$1,000,000	\$8,990 PLUS \$4.50 FOR EVERY \$100, THAT THE VALUE > \$300,000
OVER \$1,000,000	\$40,490 PLUS \$5.50 FOR EVERY \$100, THAT THE VALUE > 1,000,000
PREMIUM PROPERTY DUTY OVER \$3,000,000	\$150,490 PLUS \$7.00 FOR EVERY \$100, THAT THE VALUE > \$3,000,000

For full and further details refer to www.osr.nsw.gov.au

The 2017 NSW Budget increased to 8 per cent the surcharge on the purchase of residential real estate by **Foreign Persons** from 1 July 2017. The surcharge is in addition to the duty payable on the purchase of residential property.

#### A Foreign Person means:

- an individual not ordinarily resident in Australia; or
- a corporation in which an individual not ordinarily resident in Australia, a foreign corporation or a foreign government holds a substantial interest; or
- a corporation in which 2 or more persons, each of whom is an individual not ordinarily resident in Australia, a foreign corporation or a foreign government, hold an aggregate substantial interest; or
- the trustee of a trust in which an individual not ordinarily resident in Australia, a foreign corporation or a foreign government holds a substantial interest; or the trustee of a trust in which 2 or more persons, each of whom is an individual not ordinarily resident in Australia, a foreign corporation or a foreign government, hold an aggregate substantial interest.

### SYDNEY DEVELOPMENT LAND TAX

Land tax is applied to the value of any property owned or jointly owned that is above the land tax threshold as at midnight on 31 December the previous year.

For land tax, an owner is defined as any of the following:

- sole owner
- joint owners
- a company
- owners of company title units
- trustee of any trust
- beneficiary of a trust which is not a special trust
- society or organisation whose land is not exempt
- unit holders with interest in a unit trust which is entitled to the land tax threshold
- trustees of superannuation funds
- certain lessees of crown or local council land.

The 2017/18 NSW Budget increased to 2 per cent the land tax surcharge on the taxable value of residential land owned by a foreign person at midnight on 31 December for the 2018 tax year.

The tax is separately assessed in relation to each parcel of land and is payable in addition to any land tax otherwise payable by a foreign person. There is no tax threshold to exempt land below the specified value nor any exemption for land occupied by a foreign person as a principal place of residence.

TOTAL UNIMPROVED VALUE OF LAND	2018 TAX RATES (LAND OWNED @ 31/12/17)
BELOW \$549,000	NIL
\$549,000-\$3,357,000	\$100 PLUS 1.6% OF LAND VALUE BETWEEN \$549,000 AND \$3,357,000
ABOVE \$3,357,000	\$45,028 PLUS 2% ON VALUE IN EXCESS OF \$3,357,000

For further details refer to www.osr.nsw.gov.au.

### SYDNEY DEVELOPMENT PLANNING - CAR PARKING

The following car parking information is derived from the Sydney Local Environment Plan 2012, Part 7 - Local provisions – general, Division 1, which details the maximum car parking spaces to be provided to service particular uses of land. Land categories A, B & C are identified in the Land Use and Transport Integration map and Land Categories D, E and F are identified in the Public Transport Accessibility Level map, both forming part of the Plan.

TYPE OF PROPOSED USE	MAXIMUM PARKING SPACE	S PERMITTED
DWELLING - HOUSES	LAND CATEGORY A - 1 SPA DWELLING LAND CATEGORY B - 2 SPA DWELLING HAVING MORE 1 1 SPACE FOR EACH OTHER LAND CATEGORY C - 2 SPA DWELLING	CES FOR EACH HAN 2 BEDROOMS AND DWELLING
	NO. OF CAR SPACES	LAND CATEGORY A B C
RESIDENTIAL BUILDINGS (INCLUDING HOUSING FOR AGED PERSONS):	ICUMULATIVE) DWELLINGS STUDIO 1 BEDROOM 2 BEDROOMS 3 BEDROOMS VISITORS FIRST 30 DWELLINGS FROM 30 - 70 DWELLINGS	A         B         C           0.1         0.2         0.4           0.3         0.4         0.5           0.7         0.8         1.0           1.0         1.1         1.2           N/A         0.167         0.2           N/A         0.167         0.125           N/A         0.055         0.067
		LAND CATEGORY
	NO. OF CAR SPACES MAX. FLOOR SPACE RATIO GFA PER CAR SPACE	D         E         F           3.5:1         2.5:1         1.5:1           175         125         75
OFFICE AND BUSINESS PREMISES	IF THE BUILDING IS ON LAN OR F AND HAS A FLOOR RA THAT SPECIFIED ABOVE, TH FORMULA IS TO BE USED $\mathbf{M} = (\mathbf{G} \times \mathbf{A}) + (5\mathbf{C})$ $\mathbf{M}$ IS THE MAXIMUM NO OF $\mathbf{G}$ IS THE GFA OF ALL OFFIC BUSINESS PREMISES IN T $\mathbf{A}$ IS THE SITE AREA IN M <sup>o</sup> T IS THE TOTAL GFA OF AL SITE IN M <sup>o</sup>	ATIO GREATER THAN HE FOLLOWING IX T) WHERE: PARKING SPACES E PREMISES AND HE BUILDING IN M <sup>2</sup> LL BUILDINGS ON THE
	NO. OF CAR SPACES	LAND CATEGORY D E F
RETAIL PREMISES (DOES NOT APPLY TO BUILDINGS	MAX. FLOOR SPACE RATIO 3.5.1 GFA PER CAR. SPACE 90 60 IF THE BUILDING IS ON LAND IN CATEGOR A EL OOR RATIO GREATER 3.5.1 THE FOLIO	
WITH >2,000M <sup>2</sup> M= (G X A) ÷ (50 X		Y T) MUEDE
WITH >2,000M <sup>2</sup> RETAIL GFA)	M= (G X A) ÷ (50	PARKING SPACES IL PREMISES IN THE
	M= (G X A) ÷ (50 M IS THE MAXIMUM NO OF G IS THE GFA OF ALL RETA BUILDING IN M <sup>2</sup> A IS THE SITE AREA IN M <sup>2</sup> T IS THE TOTAL GFA OF AL	PARKING SPACES IL PREMISES IN THE L BUILDINGS ON 10 SEATS, OR 30 M <sup>2</sup> OF THE GROSS
RETAIL ĜFA) PLACES OF PUBLIC WORSHIP AND ENTERTAINMENT	M= (G X A) + (GC G IS THE MAXIMUM NO OF G IS THE GFA OF ALL RETA BUILDING IN M <sup>2</sup> A IS THE SITE AREA IN M <sup>2</sup> T IS THE TOTAL GFA OF AL THE SITE IN M <sup>2</sup> (A) 1 SPACE FOR EVERY : (B) 1 SPACE FOR EVERY : FLOOR AREA OF THE	PARKING SPACES II PREMISES IN THE L BUILDINGS ON IO SEATS, OR S0 M <sup>2</sup> OF THE GROSS BUILDING USED FOR ROOMS UP

### SYDNEY DEVELOPMENT LAND VALUES

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

LOCATION (COSTS PER M <sup>2</sup> )	\$/	M <sup>2</sup>
	LOW	HIGH
OFFICES		
CBD HIGH RISE PREMIUM	15,524	27,368
NORTH SYDNEY MID RISE A GRADE	9,615	13,167
PARAMMATTA MID RISE A GRADE	6,000	7,680
RETAIL (EG. 120 M <sup>2</sup> )		
PITT STREET MALL	30,000	75,000
SECONDARY CBD	5,000	40,000
NEIGHBOURHOOD SHOPPING CENTRE	2,000	6,500
SUBURBAN STRIP SHOPPING	NA	NA
INDUSTRIAL		
WEST (3,000-5,000 M <sup>2</sup> )	400	500
NORTH SHORE (3,000-5,000 M <sup>2</sup> )	600	700
SOUTHERN (5,000-10,000 M <sup>2</sup> )	N/A	N/A

Prepared in association with Savills.

### SYDNEY DEVELOPMENT RENTAL RATES

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

	OF	FICES		INDUSTRIAL
	CBD	NORTH SYDNEY	SUBURBAN OFFICES	WEST PRIME
1988	366	280	185	100
1989	394	300	230	103
1990	353	300	252	110
1991	282	290	261	105
1992	214	260	270	98
1993	175	220	263	98
1994	182	210	252	100
1995	235	220	247	105
1996	293	225	242	110
1997	326	240	243	120
1998	355	275	247	120
1999	366	300	252	118
2000	428	350	254	113
2001	439	390	260	112
2002	440	193	212	117
2003	428	195	174	113
2004	418	186	174	113
2005	366	164	202	115
2006	383	194	194	118
2007	399	257	192	118
2008	578	338	233	115
2009	457	321	219	105
2010	449	296	221	105
2011	468	372	221	108
2012	474	406	235	110
2013	462	419	289	110
2014	466	424	293	110
2015	462	428	295	110
2016	547	551	309	110
2017	710	550	330	110

Prepared in association with Savills.

### SYDNEY DEVELOPMENT OFFICE SECTOR DATA

#### SYDNEY CBD VACANCY RATES - Q2 2017

PCA GRADE	STOCK M <sup>2</sup>	VACANCY M <sup>2</sup>	VAC % JUN-17
PREMIUM	1,124,100	107,100	9.5
GRADE A	1,865,000	67,100	3.6
SECONDARY	2,097,200	124,000	5.9
TOTAL	5,086,300	298,200	5.9

#### NORTH SYDNEY VACANCY RATES - Q2 2017

PCA GRADE	STOCK M <sup>2</sup>	VACANCY M <sup>2</sup>	VAC % JUN-17	VAC % DEC-16
PREMIUM	36,500	6,351	17.4	25.2
GRADE A	224,307	9,197	4.1	6.0
GRADE B	410,504	32,019	7.8	7.4
GRADE C	138,253	4,977	3.6	3.5
GRADE D	12,932	388	3.0	3.7
TOTAL	822,496	52,932	6.4	7.1

#### PARRAMATTA VACANCY RATES - Q2 2017

PCA GRADE	STOCK M <sup>2</sup>	VACANCY M <sup>2</sup>	VAC % JUN-17	VAC % DEC-16
GRADE A	299,617	70	0.0	0.0
GRADE B	219,303	13,816	6.3	6.2
GRADE C	100,373	11,643	11.6	13.2
GRADE D	87,039	4,526	5.2	4.3
TOTAL	706,332	30,055	4.3	4.3

Source: PCA/Savills Research.

### SYDNEY DEVELOPMENT OFFICE SECTOR DATA

#### **KEY MARKET INDICATORS - Q3 2017**

SYDNEY CBD	PCA PF	REMIUM
	LOW	HIGH
RENTAL - GROSS FACE	1,150	1,470
RENTAL - NET FACE	940	1,260
INCENTIVE LEVEL (%) GROSS	18	21
RENTAL - NET EFFECTIVE	715	970
OUTGOINGS - OPERATING	140	155
OUTGOINGS - STATUTORY	45	55
OUTGOINGS - TOTAL	185	230
TYPICAL LEASE TERM	8	10
YIELD - MARKET (% NET FACE RENTAL)	4.75	5.00
IRR (%)	6.75	7.00
CARS PERMANENT RESERVED (\$/PCM)	990	1,080
CARS PERMANENT (\$/PCM)	NA	NA
OFFICE CAPITAL VALUES	21,500	23,500

NORTH SHORE	NORTH SYDN	IEY GRADE A
	LOW	HIGH
RENTAL - GROSS FACE	875	945
RENTAL - NET FACE	750	820
INCENTIVE LEVEL (%) NET	25	30
RENTAL - NET EFFECTIVE	545	595
OUTGOINGS - OPERATING	90	95
OUTGOINGS - STATUTORY	30	35
OUTGOINGS - TOTAL	120	130
TYPICAL LEASE TERM	7	10
YIELD - MARKET (% NET FACE RENTAL)	5.50	6.00
IRR (%)	7.00	7.50
CARS PERMANENT RESERVED (\$/PCM)	550	650
CARS PERMANENT (\$/PCM)	500	550
OFFICE CAPITAL VALUES	10,500	13,500

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

Source: Savills Research.

PCA GI	PCA GRADE A		RADE B
LOW	HIGH	LOW	HIGH
1,100	1,170	875	925
920	990	700	750
17	21	16	21
710	770	540	580
110	130	120	140
45	50	40	50
155	202	160	190
5	10	5	7
5.00	5.25	5.00	5.25
6.75	7.00	6.75	7.00
900	1,070	720	790
NA	NA	NA	NA
17,600	19,400	13,500	15,000

	NORTH SYDNEY GRADE B		RIE PARK DE A
LOW	HIGH	LOW	HIGH
725	775	420	505
610	660	315	400
25	30	25	33
440	480	225	285
80	85	65	80
30	35	25	40
110	120	90	120
3	7	5	8
6.25	6.75	6.00	6.50
7.25	7.75	7.25	7.50
475	550	225	275
400	500	NA	NA
9,500	11,000	5,000	7,000

### SYDNEY DEVELOPMENT RETAIL SECTOR DATA

#### **KEY MARKET INDICATORS - Q3 2017**

SYDNEY ENCLOSED CENTRES	REGI	ONAL
	LOW	HIGH
DEPARTMENT STORE RENT (GROSS)	100	250
DDS RENT (GROSS)	150	275
SUPERMARKET RENT (GROSS)	250	550
SPECIALTY TENANT RENT (GROSS)	1,160	2,815
MINI-MAJOR RENT (GROSS)	400	1,750
YIELD - MARKET (%)	4.50	7.00
IRR (%)	6.75	7.75
OUTGOINGS - OPERATING	135	210
OUTGOINGS - STATUTORY	25	45
OUTGOINGS - TOTAL	160	255
CAPITAL VALUES	7,500	15,000

#### RETAIL SALES ACTIVITY

PROPERTY SALES	ТҮРЕ
HOME HUB CASTLE HILL	LARGE FORMAT
SALAMANDER BAY CENTRE	SUB REGIONAL
MARKETOWN S.C.	SUB REGIONAL
GPO	OTHER
HOME HUB MARSDEN PARK	LARGE FORMAT
BAKEHOUSE QUARTER	MIXED USE
EAST VILLAGE (50%)	SUB REGIONAL
HUNTER SUPA CENTRE	LARGE FORMAT
BROADWAY PLAZA	NEIGHBOURHOOD
CENTREPOINT ARCADE TAMWORTH	NEIGHBOURHOOD
MUSWELLBROOK MARKETPLACE	SUB REGIONAL
TERRACE CENTRAL S.C	NEIGHBOURHOOD
ENTRADA SHOPPING CENTRE	NEIGHBOURHOOD
CHIPPING NORTON MARKET PLAZA	NEIGHBOURHOOD
ILLAWONG VILLAGE	NEIGHBOURHOOD

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

Source: Savills Research.

SUB RE	GIONAL	NEIGHBC	URHOOD	LARGE I	FORMAT
LOW	HIGH	LOW	HIGH	LOW	HIGH
-	-	-	-	-	-
150	275	-	-	-	-
250	550	250	550	-	-
765	1,585	620	1,395	-	-
300	1,000	200	650	175	565
5.25	7.25	5.00	8.00	5.50	8.00
7.25	8.50	7.25	8.25	7.50	9.00
115	150	100	150	10	25
25	35	20	45	15	35
140	200	120	180	25	60
3,000	6,500	2,000	6,500	1,570	5,800

PRICE (\$M)	DATE	GLA (M <sup>2</sup> )	\$/M <sup>2</sup>
336.00	MAY-17	51,936	6,470
174.50	MAY-17	23,520	7,419
163.25	JUN-17	26,011	6,276
150.00	JUN-17	NA	NA
100.00	MAY-17	19,833	5,042
380.00	JUL-17	NA	NA
155.30	AUG-17	33,00	9,393
42.25	JAN-17	19,995	2,113
41.20	MAR-17	8,457	4,872
38.50	FEB-17	9,188	4,190
34.25	MAY-17	12,838	2,668
33.50	JUN-17	7,236	4,630
41.32	JUL-17	5,570	7,418
30.50	JUN-17	2,800	10,893
40.00	SEP-17	6,471	6,181

### SYDNEY DEVELOPMENT INDUSTRIAL SECTOR DATA

#### **KEY MARKET INDICATORS - Q3 2017**

## SOUTH SYDNEY (ALEXANDRIA, BOTANY, BANKSMEADOW, ROSEBERY)

	PRIME		SECON	DARY
	LOW	HIGH	LOW	HIGH
RENTAL NET FACE	140	200	110	140
INCENTIVES (%)	8	10	8	10
YIELD - MARKET (%)	5.50	6.25	6.50	7.00
IRR (%)	7.25	7.50	7.50	7.75
OUTGOINGS - TOTAL	30	40	30	40
CAPITAL VALUES	2,150	3,500	1,450	2,100
LAND VALUES 3,000-5,000 M <sup>2</sup>	900 (LOW) 1,2		1,200	(HIGH)
LAND VALUES 10,000-30,000 M <sup>2</sup>	900 (	LOW	1,000	(HIGH)

#### NORTH SHORE (ARTARMON, LANE COVE, ST LEONARDS)

	PRIME		SECONDARY	
	LOW	HIGH	LOW	HIGH
RENTAL NET FACE	135	190	105	130
INCENTIVES (%)	12.5	17.5	15	20
YIELD - MARKET (%)	6.00	7.50	7.25	8.00
IRR (%)	8.00	8.75	8.25	9.00
OUTGOINGS - TOTAL	40	50	40	50
CAPITAL VALUES	1,950	2,950	1,350	1,750
LAND VALUES 3,000-5,000 M <sup>2</sup>	700 (LOW)		750 (	HIGH)
LAND VALUES 10,000-50,000 M <sup>2</sup>	575 (1	LOW)	675 (	HIGH)

#### WESTERN SYDNEY (ARNDELL PARK, EASTERN CREEK, ERSKINE PARK, GREYSTANES, HUNTINGWOOD, SMITHFIELD, WETHERILL PARK, YENNORA)

	PRIME		SECONDARY	
	LOW	HIGH	LOW	HIGH
RENTAL NET FACE	105	125	75	100
INCENTIVES (%)	8	20	8	15
YIELD - MARKET (%)	6.00	6.50	6.75	7.25
IRR (%)	7.25	7.75	7.75	8.50
OUTGOINGS - TOTAL	18	25	18	25
CAPITAL VALUES	1,600	2,150	1,100	1,600
LAND VALUES 3,000-5,000 M <sup>2</sup>	500 (	LOW)	575 (	HIGH)
LAND VALUES 10,000-50,000 M <sup>2</sup>	450 (	LOW)	500 (	HIGH)
LAND VALUES 10 HA AND ABOVE	375 (	LOW)	425 (	HIGH)

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

Source: Savills Research.

### SYDNEY DEVELOPMENT CONSTRUCTION WORK DONE

## ANNUAL VALUE OF CONSTRUCTION WORK DONE IN NEW SOUTH WALES

YEAR ENDING	RESIDENTIAL	NON- RESIDENTIAL	ENGINEERING	TOTAL CONSTRUCTION
JUN-1990	4,973	5,788	3,592	14,353
JUN-1991	4,715	5,854	4,126	14,695
JUN-1992	4,631	4,167	4,015	12,814
JUN-1993	5,245	3,450	4,016	12,711
JUN-1994	5,614	3,203	4,180	12,997
JUN-1995	6,348	3,343	4,687	14,378
JUN-1996	5,917	3,941	5,212	15,070
JUN-1997	5,802	4,366	5,010	15,178
JUN-1998	6,913	5,199	5,236	17,348
JUN-1999	8,032	5,963	5,597	19,593
JUN-2000	9,222	6,267	6,231	21,720
JUN-2001	7,021	4,189	6,156	17,366
JUN-2002	8,528	4,342	5,598	18,468
JUN-2003	10,667	5,132	6,484	22,283
JUN-2004	11,773	5,981	7,888	25,642
JUN-2005	11,657	6,448	9,340	27,446
JUN-2006	10,351	7,432	10,524	28,307
JUN-2007	9,798	7,913	10,825	28,536
JUN-2008	9,770	8,913	12,342	31,024
JUN-2009	9,795	8,676	16,316	34,786
JUN-2010	10,319	10,231	16,182	36,732
JUN-2011	11,480	9,840	18,470	39,789
JUN-2012	10,874	7,734	21,477	40,085
JUN-2013	13,070	8,352	23,222	44,644
JUN-2014	14,744	9,789	19,095	43,628
JUN-2015	17,718	10,821	16,384	44,923
JUN-2016	21,913	11,804	16,975	50,692
JUN-2017	25,341	11,375	19,234	55,950

Source: ABS 8752.0 & 8755.0 (Current Prices - Original Series - \$ millions).

### SYDNEY DEVELOPMENT CONSTRUCTION WORK DONE

# ANNUAL VALUE OF NON-RESIDENTIAL BUILDING WORK DONE IN NEW SOUTH WALES

YEAR ENDING	COMMERCIAL	INDUSTRIAL	RETAIL	EDUCATION
JUN-2002	1,160	674	756	550
JUN-2003	1,229	761	1,052	626
JUN-2004	1,403	981	1,335	576
JUN-2005	1,542	1,126	1,372	637
JUN-2006	1,980	1,287	1,517	811
JUN-2007	2,247	1,245	1,341	794
JUN-2008	2,485	1,316	1,607	805
JUN-2009	2,343	1,331	1,836	868
JUN-2010	1,789	761	1,760	3,547
JUN-2011	1,804	912	1,872	2,843
JUN-2012	1,615	1,173	1,549	1,204
JUN-2013	1,901	1,154	1,485	1,250
JUN-2014	2,165	1,170	1,910	1,491
JUN-2015	2,683	1,224	1,891	1,242
JUN-2016	3,049	1,099	2,280	1,069
JUN-2017	2,295	1,734	1,663	1,048

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

HEALTH	AGED CARE	HOTELS	OTHER	TOTAL NON-RESIDENTIAL
380	149	134	539	4,342
376	151	263	674	5,132
273	324	411	679	5,981
255	343	472	702	6,448
231	318	547	741	7,432
525	374	369	1,018	7,913
505	500	310	1,384	8,913
624	429	272	973	8,676
787	383	210	994	10,231
717	286	245	1,159	9,840
539	248	366	1,040	7,734
734	309	306	1,213	8,352
1,072	348	379	1,255	9,789
1,111	535	772	1,364	10,821
913	735	768	1,891	11,804
1,093	842	994	1,706	11,375

### SYDNEY DEVELOPMENT CONSTRUCTION WORK DONE

# ANNUAL VALUE OF RESIDENTIAL BUILDING WORK DONE IN NEW SOUTH WALES

YEAR ENDING	NEW HOUSES	NEW APARTMENTS & SEMI DETACHED HOUSING	ALTERATIONS & ADDITIONS INCLUDING CONVERSIONS	TOTAL RESIDENTIAL
JUN-1990	2,818	1,181	974	4,973
JUN-1991	2,544	1,134	1,037	4,715
JUN-1992	2,661	1,028	942	4,631
JUN-1993	2,850	1,404	991	5,245
JUN-1994	3,092	1,466	1,055	5,614
JUN-1995	3,151	1,989	1,207	6,348
JUN-1996	2,839	1,920	1,158	5,917
JUN-1997	2,800	1,914	1,087	5,802
JUN-1998	3,243	2,334	1,337	6,913
JUN-1999	3,589	2,996	1,448	8,032
JUN-2000	4,400	3,215	1,607	9,222
JUN-2001	3,315	2,469	1,233	7,021
JUN-2002	4,000	3,012	1,516	8,528
JUN-2003	4,679	4,128	1,861	10,667
JUN-2004	4,901	4,704	2,167	11,773
JUN-2005	4,797	4,621	2,239	11,657
JUN-2006	4,389	3,802	2,160	10,351
JUN-2007	4,309	3,417	2,072	9,798
JUN-2008	4,283	3,330	2,156	9,770
JUN-2009	4,391	3,271	2,133	9,795
JUN-2010	4,915	3,225	2,179	10,319
JUN-2011	5,167	3,920	2,393	11,480
JUN-2012	4,981	3,672	2,221	10,874
JUN-2013	5,773	5,112	2,185	13,070
JUN-2014	6,277	6,177	2,289	14,744
JUN-2015	7,576	7,463	2,678	17,718
JUN-2016	8,466	10,632	2,815	21,913
JUN-2017	9,631	12,542	3,169	25,341

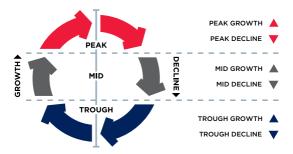
Source: ABS 8752.0 (Original Cost - \$ millions).

### SYDNEY 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 represents the construction development activity cycle.

Each RLB office highlights the current construction sector activity position within the market activity cycle of those key construction sectors within their region. Each sector is categorised by three positions within the cycle; Peak, Mid and Trough. Within each position, activity is further defined by either declining or growing within that sector.

The "up" and "down" arrows highlight the current status within the three positions of the cycle by means of the three colours identified in the cycle diagram below.



#### RLB CONSTRUCTION MARKET ACTIVITY CYCLE

### SYDNEY DEVELOPMENT RLB CONSTRUCTION MARKET ACTIVITY CYCLE

The following tables represent the position of each sector within the RLB Market Activity Cycle. The tables reflect the movement of each sector within the cycle for the period represented.

SYDNEY	Q2 2015	Q4 2015	Q2 2016	Q4 2016	Q2 2017	Q4 2017
HOUSES						
APARTMENTS						
OFFICES		•				
INDUSTRIAL	▼	▼	•	•	▼	•
RETAIL		•	•	•	▼	•
HOTEL	▼	▼				
CIVIL	▼	•			•	

# BENCHMARKS

Regional Indices	66
Key City Relativities	67
Office Building Efficiencies	68
Reinforcement Ratios	68
Labour and Materials Trade Ratios	69
Progress Payment Claims	70
Common Industry Acronyms	71
Method of Measurement	72

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

NEW SOUTH WALES		QUEENSLAND		WESTERN AUSTRALIA	
SYDNEY	100	BRISBANE	100	PERTH	100
ARMIDALE	105	CAIRNS	105	ALBANY	110
COFFS HARBOUR	100	GLADSTONE	125	BROOME	145
NEWCASTLE	99	GOLD COAST	95	BUNBURY	103
ORANGE	106	MACKAY	114	CARNARVON	145
TAMWORTH	102	SUNSHINE COAST	95	ESPERANCE	125
WAGGA WAGGA	106	TOWNSVILLE	108	GERALDTON	105
WOLLONGONG	100			KALGOORLIE	125
				KUNUNURRA	165
				PORT HEDLAND	160
				TOM PRICE	165

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

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

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

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

### BENCHMARKS KEY CITY RELATIVITIES - Q4 2017

RLB's Key City Relativity Matrix highlights the cost relativity between key Australian cities. The Relativity Matrix compares the cost of a range of building types in a standardised form based on tender prices. Each column represents a base city indexed to 100 with other city's relativities reindexed to that base city.

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

Base city (C\_b), divided by the Relativity of city to be compared with (C\_r) i.e. (C\_{B}C\_{r})-1

For example, when comparing costs between Sydney and Perth, Sydney building costs are generally 11% more than Perth.

i.e (100/90)-1=~11.1%

If the tendered price of a similar building in Sydney was \$1,000,000, the equivalent cost in Perth would be \$900,000 or conversely a \$1,000,000 building in Perth would cost \$1,110,000 in Sydney.

ADELAIDE 100		BRISBANE 100		CANBERRA 100		DARWIN 100		GOLD COAST 100	
BNE	98	ADE	102	ADE	93	ADE	90	ADE	111
CAN	107	CAN	109	BNE	92	BNE	89	BNE	109
DAR	111	DAR	113	DAR	103	CAN	97	CAN	119
GC	90	GC	92	GC	84	GC	82	DAR	123
MEL	104	MEL	106	MEL	97	MEL	94	MEL	115
PER	101	PER	103	PER	95	PER	91	PER	112
SYD	118	SYD	120	SYD	110	SYD	106	SYD	130
TVE	100	TVE	102	TVE	93	TVE	90	TVE	111

ie. 1,000,000 x (100/90) = ~1,111,000

MELBOURNE 100		PERTH 100		SYDNEY 100		TOWNSVILLE 100	
ADE	96	ADE	99	ADE	85	ADE	100
BNE	94	BNE	97	BNE	83	BNE	98
CAN	103	CAN	106	CAN	91	CAN	107
GC	87	GC	89	GC	77	GC	90
DAR	106	DAR	109	DAR	94	DAR	111
PER	97	MEL	103	MEL	88	MEL	104
SYD	113	SYD	116	PER	86	PER	101
TVE	96	TVE	99	TVE	85	SYD	118

### 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.

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

### PLANT ROOM SPACE

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

### **REINFORCEMENT RATIOS**

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

	AVE KG/M <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
RETAINING WALLS			
1-2 STOREY	70	BEAMS	170
2-3 STOREY	120		
GROUND BEAMS	120	WALLS (CORE)	140
		STAIRS	80

### BENCHMARKS LABOUR AND MATERIALS TRADE RATIOS

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

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

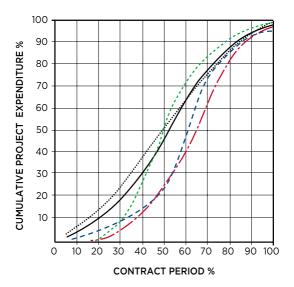
PRELIMINARIES	40 10 50
DEMOLISHER	85 15
EXCAVATOR	<b>32</b> 15 53
PILER	20 50 30
IN SITU CONCRETOR	25 75
FORMWORKER	70 30
REINFORCEMENT FIXER	20 80
PRECAST CONCRETOR	20 80
BRICKLAYER & BLOCKLAYER	50 50
MASON	10 90
ASPHALTOR	40 60
STRUCTURAL STEELWORK	60 40
METALWORKER	20 80
SUSPENDED CEILING FIXER	40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

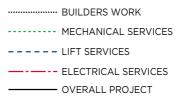


MATERIAL FIXED FACTOR

### 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

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

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

STRUC	TURAL 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
HYDRA	ULIC 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
MECHA	NICAL 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
ELECT	RICAL DRAWINGS
DB	Distribution Board
DGPO	Double General Power Outlet
C D O	Concerned Decision October

- 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  $(M^2)$ .

### **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, and,
  - 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, and;
  - 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)

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

Sustainability and Quality	76
Management Standards	77
Useful Life Analysis	78
Outgoings	79
Essential Safety Measures	80
Capital Allowances (Tax Depreciation)	81



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 centers, 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.

Guality – 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. To date this has involved 34 countries, plus EuroFM and Global FM, looking at Terms and Definitions and Guidance on strategic sourcing and the development of agreements. Now designated ISO 41000, work has commenced on a Management Systems Standard for FM.

Separately, there was the release in 2014 of the ISO 55000 series for **Asset Management (AM)**. This comprises three parts: Overview, principles and terminology; Management systems requirements; and Guidelines for the application of *the standard*. 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, and
- 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 the Australian context.

Recent internationally publications have included the IFMA Foundation's "Work on the Move 2" (2016), IFMA's "FM Outlook" (2016) and "FM Outsourcing" (2016).

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

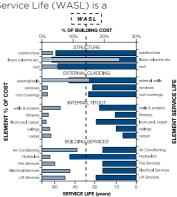
# ASSETS AND FACILITIES **USEFUL LIFE ANALYSIS**

# LIFE CYCLE ANALYSIS

Life Cycle Studies recognise that every 'whole' asset consists of many component parts, each with its own life expectancy, interrelationships, resulting guality 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

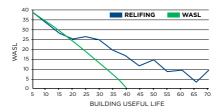
Weighted Average Service Life (WASL) is a methodology used to determine the "Useful Life" of an asset. For buildings the WASL is the collective result of applying service COST life criteria to each % OF element of a cost analysis: excluding ELEMENT capital recurrent expenditure other than routine maintenance.



## 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

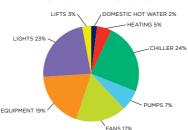
Outgoings are the costs required to operate a property that are generally recoverable by a Landlord from the tenants. The recovery of outgoings is usually calculated by a sharing of costs amongst tenants relative to their leasehold interest. They generally cover the recurrent costs for the delivery of 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:

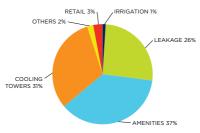
- · the level of management and services provided
- lease agreements
- · quality, type and efficiency of the building
- · location and statutory regimes applicable

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



TYPICAL OFFICE ENERGY USAGE





# 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.

	۲IC	ard	NSN	SA	TAS	ACT	WA
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
CERTIFICATE REQUIRED TO BE FORWARDED TO AN AUTHORITY	×	✓	✓	✓	×	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 2006 Part 12
QLD	Queensland Fire and Rescue Service Amendment Act 2006
NSW	Environmental Planning and Assessment Regulations 2000
SA	SA Development Act 1993 & Minister's Specifications SA 76
TAS	Fire Services Act 1979 & General Fire

- **TAS** Fire Services Act 1979 & General Fire Regulations 2010
- ACT ACT Emergencies Act 2004
- WA No specific legislation

### 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 TR2016/1 which came into effect on the 1st July 2016. The following broad principles outline the rates of depreciation deductions relative to income producing assets under ITAA 1997 (Division 40 & 43).

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



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

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

# ASSETS AND FACILITIES CAPITAL ALLOWANCES (TAX DEPRECIATION)

SCHEDULE OF ASSETS	PRIME COST %	DIMINISHING VALUE %
THE FOLLOWING LIST GIVES A SAMPLE OF	ELIGIBLE	
DEPRECIATING ASSETS.		
OFFICE BUILDING	0.007	47 777
HOT WATER INSTALLATIONS MULTI TYPE FIRE DETECTION SYSTEMS	6.667	13.333 8-33.33
CENTRAL AIR CONDITIONING (VARIOUS RATES	4-16.67	
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	5	10
VINYL FLOORING	10	20
CARPET	12.5	25
WINDOW BLINDS	5	10
OFFICE FURNITURE, FREESTANDING	4-10	8-20
ESCALATORS	5	10
LIFTS, ELEVATORS & HOISTS	3.333	6.667
SIGNAGE FOR BUSINESS IDENTIFICATION	10	20
HOTELS, MOTELS		
CARPETS	14.286	28.572
WINDOW BLINDS AND CURTAINS	16.667	33.333
FURNITURE AND FITTINGS (FREE STANDING)	14.286-20	28.572-40
HOT WATER SYSTEMS	10	20
BEDS AND BEDDING	14.286-50	28.572-100
SHOPPING CENTRES Generally, the list for office buildings will app additions:	ply with the fol	llowing
FLOATING TIMBER FLOORS	10	20
FURNITURE, FREESTANDING	10	20
INDUSTRIAL Generally, the list for office buildings will app additions:	ply with the fol	llowing
CRANES	5	10
GANTRIES	3	6
DOCK LEVELLERS	5	10
INFLATABLE DOCK SEALS	10	20
RESIDENTIAL Only for assets continuously owned prior to used) purchased from 10/05/17. FLOOR COVERINGS:	10/05/17 or ne	ew assets (not
CARPET	10	20
FLOATING TIMBER	6.667	13.333
Hotwater Systems (excluding piping):	0.007	10.000
ELECTRIC AND GAS	8.333	16.667
SOLAR	6.667	13.333
Miscellaneous:		
INTERCOM SYSTEM ASSETS	10	20
WINDOW BLINDS	10	20
ROOM AIR CONDITIONING	10	20
Kitchen Assets:		
COOKTOPS, OVENS, RANGEHOODS	8.333	16.667
DISHWASHERS, WASHING MACHINES, CLOTHES DRYERS	10	20

# OFFICES AROUND THE WORLD

Oceania	84
Africa	85
Middle East	85
United Kingdom	86
Asia	86
Americas	89

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# CALENDARS

Calendars 2017 - 2020	92
2018 Rostered Days Off	94
Public Holidays	96

# **CALENDARS 2017 - 2020**

# 2017

	J٨	NU	AR	r 20	17			FE	BRU	JAR	Y 20	017		MARCH 2017							
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		APR	IL 2	020	0				ма	Y 20	020						JUN	IE 2	020	,	
S	М	т	W	т	F	S	S	М	т	W	т	F	S	ΙF	S	М	т	W	т	F	S
1			1	2	3	4	1					1	2			1	2	3	4	5	6
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									26	27	28	29	30		28	29	30				
							31														

		JUL	Y 2	020				Α	UGL	JST	202	20			SEF	TE	ИBE	R 20	020	
s	м	т	w	т	F	s	S	м	т	w	т	F	s	S	м	т	w	т	F	S
1			1	2	3	4	1						1			1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
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			
							30	31						L						

	00	сто	BER	20	20			NO	VEN	1BE	R 20	020				DE	CEM	1BEI	R 20	20	
S	м	т	w	т	F	S	S	м	т	w	т	F	s	IΓ	s	м	т	w	т	F	s
1				1	2	3	1	2	3	4	5	6	7				1	2	3	4	5
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		
1																					

# CALENDARS 2018 ROSTERED DAYS OFF

	ADELAIDE	BRISBANE & DARWIN
BASIS	CFMEU EBA	CFMEU EBA
HOURS BASIS	36	36
JAN	MON 29	TUE 2
	TUE 30	WED 3
		THU 4
		FRI 5
FEB	MON 26	MON 5
	TUE 13	
MAR	WED 14	MON 5
	THU 29	
APR	TUE 3	TUE 3
	THU 26	WED 4
	FRI 27	THU 5
		FRI 6
		MON 23
		TUE 24
MAY	MON 14	MON 21
	MON 28	
JUN	TUE 12	MON 18
	WED 13	
JUL	MON 16	MON 16
	MON 30	
AUG	MON 13	MON 13
	MON 27	TUE 14
SEP	MON 10	MON 10
	MON 24	
ост	TUE 2	TUE 2
	WED 3	
	MON 12	
NOV	MON 26	MON 5
		TUE 6
	FRI 21	
DEC	MON 24	MON 3
	MON 24	MON 24
		THU 27
		FRI 28
		MON 31
TOTAL	26	26

CANBERRA	MELBOURNE	PERTH	SYDNEY
CFMEU EBA	CFMEU EBA	CFMEU EBA	CFMEU EBA
36	36	36	36
TUE 2	FRI 5	TUE 2	MON 29
MON 29	MON 8	WED 3	
TUE 30	TUE 9	THU 4	
	MON 29	FRI 5	
		MON 29	
MON 12	MON 12	MON 12	MON 26
MON 26	MON 26		
MON 5	TUE 13	TUE 6	
TUE 13			
TUE 3	TUE 3		MON 23
MON 9		TUE 3	TUE 24
MON 23			
MON 7	MON 14		MON 21
MON 14	MON 28	MON 14	
FRI 8	TUE 12		TUE 12
TUE 12	MON 25	TUE 5	
MON 9	MON 9		MON 16
MON 16	MON 23	MON 2	
MON 6	MON 6	MON 30	MON 13
MON 20	MON 20	MON 27	
FRI 21	MON 3		MON 10
TUE 25	MON 17	TUE 25	
TUE 2	MON 1		TUE 2
MON 29	MON 15	MON 29	
MON 5	MON 5	MON 5	MON 5
TUE 6	WED 7	TUE 6	
	MON 19		
MON 3	MON 24	MON 24	TUE 4
THU 27	THU 27	THU 27	MON 24
	FRI 28	FRI 28	
		MON 31	
26	26	21 FIXED & 5 VARIABLE	13 FIXED & 13 VARIABLE

# CALENDARS PUBLIC HOLIDAYS IN AUSTRALIA

ALL STATES	2018	2019	2020
NEW YEARS DAY	1 JAN	1 JAN	1 JAN
AUSTRALIA DAY	26 JAN	28 JAN	26 JAN
GOOD FRIDAY	30 MAR	19 APR	10 APR
EASTER MONDAY	2 APR	22 APR	13 APR
ANZAC DAY	25 APR	25 APR	25 APR
QUEENS BIRTHDAY (EXCL QLD & WA)	11 JUN	10 JUN	8 JUN
CHRISTMAS DAY	25 DEC	25 DEC	25 DEC
BOXING DAY	26 DEC	26 DEC	26 DEC
A.C.T			
CANBERRA DAY	12 MAR	11 MAR	9 MAR
EASTER SATURDAY	31 MAR	20 APR	11 APR
EASTER SUNDAY	1 APR	21 APR	12 APR
RECONCILIATION DAY	28 MAY	27 MAY	25 MAY
LABOUR DAY	1 OCT	7 OCT	5 OCT
NEW SOUTH WALES			
EASTER SATURDAY	31 MAR	20 APR	11 APR
EASTER SUNDAY	1 APR	21 APR	12 APR
BANK HOLIDAY	6 AUG	5 AUG	3 AUG
LABOUR DAY	1 OCT	7 OCT	5 OCT
NORTHERN TERRITORY			
EASTER SATURDAY	31 MAR	20 APR	11 APR
MAY DAY	7 MAY	6 MAY	4 MAY
PICNIC DAY	6 AUG	5 AUG	3 AUG
QUEENSLAND			
EASTER SATURDAY	31 MAR	20 APR	11 APR
LABOUR DAY	7 MAY	6 MAY	4 MAY
ROYAL QUEENSLAND SHOW	15 AUG	14 AUG	12 AUG
QUEENS BIRTHDAY	1 OCT	7 OCT	5 OCT
SOUTH AUSTRALIA			
EASTER SATURDAY	31 MAR	20 APR	11 APR
ADELAIDE CUP DAY	12 MAR	11 MAR	9 MAR
LABOUR DAY	1 OCT	7 OCT	5 OCT
TASMANIA			
ROYAL HOBART REGATTA	12 FEB	11 FEB	10 FEB
LAUNCESTON CUP	28 FEB	27 FEB	26 FEB
EIGHT HOURS DAY	12 MAR	11 MAR	9 MAR
EASTER TUESDAY	3 APR	23 APR	14 APR
LAUNCESTON SHOW	11 OCT	10 OCT	8 OCT
HOBART SHOW	25 NOV	24 NOV	22 NOV
RECREATION DAY (NORTHERN)	5 NOV	4 NOV	2 NOV
VICTORIA			
LABOUR DAY	12 MAR	11 MAR	9 MAR
EASTER SATURDAY	31 MAR	20 APR	11 APR
EASTER SUNDAY	1 APR	21 APR	12 APR
GRAND FINAL EVE DAY	28 SEP	27 SEP	25 SEP
MELBOURNE CUP DAY	6 NOV	5 NOV	3 NOV
WESTERN AUSTRALIA			
LABOUR DAY	5 MAR	4 MAR	2 MAR
FOUNDATION DAY	4 JUN	3 JUN	1 JUN
QUEENS BIRTHDAY	24 SEP	30 SEP	28 SEP



