

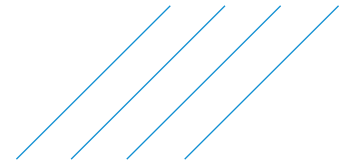
## 2019 Global Location Indices – Singapore Base

## UNITED STATES

City	State	Final Factor	2018-2019 Escalation
Washington D.C.		100.28	3.95%
Anchorage	AK	121.68	4.16%
Fairbanks	AK	123.91	7.67%
Birmingham	AL	91.66	4.56%
Huntsville	AL	92.13	5.04%
Mobile	AL	92.19	4.82%
Montgomery	AL	92.83	4.62%
Little Rock	AR	100.42	9.44%
Phoenix	AZ	104.69	7.93%
Tucson	AZ	99.94	11.13%
Anaheim	CA	116.49	6.11%
Fresno	CA	119.76	5.96%
Los Angeles	CA	123.02	6.38%
Riverside	CA	116.87	9.91%
Sacramento	CA	122.57	5.74%
San Diego	CA	111.94	4.74%
San Francisco	CA	142.55	5.14%
San Jose	CA	142.23	8.99%
Santa Barbara	CA	119.85	6.50%
Denver	CO	108.22	7.91%
Hartford	CT	116.21	4.09%
New Haven	CT	116.22	3.99%
Stamford	CT	123.18	7.56%
Wilmington	DE	106.57	1.66%
Jacksonville	FL	91.00	6.70%
Miami	FL	96.84	1.75%
Orlando	FL	94.54	5.88%
Pensacola	FL	90.14	5.79%
Tallahassee	FL	87.64	7.25%
Tampa	FL	90.23	2.78%
Atlanta	GA	96.64	9.73%
Savannah	GA	94.53	8.11%
Honolulu	HI	145.54	4.14%
Cedar Rapids	IA	96.84	7.04%
Davenport	IA	102.32	6.50%
Des Moines	IA	95.25	6.31%
Boise	ID	98.13	7.60%
Chicago	IL	119.59	4.84%
Peoria	IL	109.71	2.95%
Rock Island	IL	104.53	6.44%
Rockford	IL	107.00	2.02%
Evansville	IN	101.83	6.07%
Indianapolis	IN	98.63	4.08%

City	State	Final Factor	2018-2019 Escalation
South Bend	IN	103.31	5.95%
Topeka	KS	104.16	6.84%
Wichita	KS	100.93	8.59%
Louisville	KY	95.65	5.31%
Baton Rouge	LA	91.55	4.03%
New Orleans	LA	91.31	5.04%
Shreveport	LA	90.61	4.42%
Boston	MA	122.48	3.40%
New Bedford	MA	115.41	2.97%
Springfield	MA	119.40	7.87%
Worcester	MA	121.28	5.44%
Baltimore	MD	98.34	4.15%
Portland	ME	99.36	4.32%
Ann Arbor	MI	100.56	0.67%
Dearborn	MI	100.87	0.66%
Detroit	MI	102.35	1.32%
Flint	MI	103.81	6.85%
Grand Rapids	MI	97.38	7.13%
Lansing	MI	102.09	6.70%
Duluth	MN	107.13	5.57%
Minneapolis	MN	110.88	2.19%
Rochester	MN	104.78	3.02%
St Paul	MN	111.74	4.29%
Kansas City	MO	108.40	2.64%
St Louis	MO	114.10	6.47%
Jackson	MS	94.41	8.40%
Billings	MT	103.00	9.68%
Charlotte	NC	88.56	4.37%
Raleigh	NC	91.23	4.72%
Fargo	ND	100.81	6.46%
Lincoln	NE	98.25	---
Omaha	NE	97.62	7.89%
Manchester	NH	101.86	4.43%
New Brunswick	NJ	123.49	2.00%
Newark	NJ	124.48	2.74%
Trenton	NJ	120.42	1.89%
Albuquerque	NM	96.97	4.48%
Santa Fe	NM	105.11	10.95%
Las Vegas	NV	112.89	10.09%
Albany	NY	113.99	5.99%
Buffalo	NY	120.53	8.57%
New York	NY	141.15	1.75%
Rochester	NY	104.78	3.02%

All locations have been factored to Singapore with a value of 100.

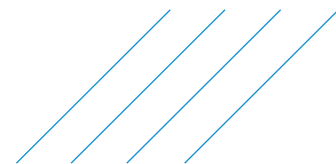


## 2019 Global Location Indices – Singapore Base

## UNITED STATES

City	State	Final Factor	2018-2019 Escalation	City	State	Final Factor	2018-2019 Escalation
Schenectady	NY	113.51	6.18%	Spokane	WA	113.18	6.26%
Syracuse	NY	110.93	5.02%	Tacoma	WA	124.87	9.84%
Akron	OH	99.95	0.82%	Green Bay	WI	110.62	7.41%
Cincinnati	OH	93.83	3.62%	Madison	WI	112.45	6.96%
Cleveland	OH	102.48	3.36%	Milwaukee	WI	115.26	6.70%
Columbus	OH	99.73	6.70%	Charleston	WV	94.64	7.82%
Dayton	OH	97.15	7.00%	Cheyenne	WY	102.87	10.19%
Toledo	OH	105.25	6.76%				
Youngstown	OH	101.79	7.51%				
Oklahoma City	OK	92.46	5.19%				
Tulsa	OK	96.17	8.58%				
Portland	OR	99.36	4.32%				
Erie	PA	99.50	1.54%				
Philadelphia	PA	121.06	3.61%				
Pittsburgh	PA	104.57	2.27%				
Reading	PA	102.07	1.71%				
Scranton	PA	96.88	1.82%				
York	PA	97.70	2.13%				
San Juan	PR	78.59	4.24%				
Providence	RI	112.29	3.08%				
Charleston	SC	94.64	7.82%				
Columbia	SC	89.14	5.59%				
Spartanburg	SC	90.01	6.91%				
Sioux Falls	SD	98.39	8.42%				
Chattanooga	TN	95.01	7.67%				
Knoxville	TN	88.93	5.25%				
Memphis	TN	92.66	5.47%				
Nashville	TN	98.75	7.38%				
Austin	TX	87.51	4.65%				
Corpus Christi	TX	87.46	8.92%				
Dallas	TX	92.63	7.48%				
El Paso	TX	93.79	8.60%				
Fort Worth	TX	91.70	6.73%				
Houston	TX	87.56	7.09%				
Lubbock	TX	97.44	8.52%				
San Antonio	TX	85.21	3.81%				
Salt Lake City	UT	98.63	7.64%				
Alexandria	VA	99.56	3.56%				
Newport News	VA	93.19	---				
Norfolk	VA	88.65	3.71%				
Richmond	VA	94.08	4.73%				
Burlington	VT	102.44	4.24%				
Seattle	WA	127.35	6.30%				

All locations have been factored to Singapore with a value of 100.



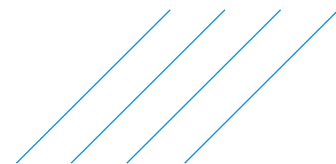
## 2019 Global Location Indices – Singapore Base

## CANADA

City	Province	Final Factor	2018-2019 Escalation
Calgary	AB	113.22	11.39%
Edmonton	AB	113.61	11.45%
Halifax	NS	119.24	10.40%
Hamilton	ON	116.08	4.97%
Kitchener	ON	115.41	7.91%
London	ON	115.68	10.27%
Montreal	QC	110.30	6.57%
Ottawa	ON	113.59	7.52%
Quebec	QC	106.91	5.00%
Regina	SK	117.35	11.83%
Saint John	NB	116.87	13.92%
Saskatoon	SK	116.43	10.57%
St. Catharines	ON	114.64	7.93%
Sudbury	ON	114.57	8.12%
Thunder Bay	ON	114.02	8.01%
Toronto	ON	118.59	10.03%
Vancouver	BC	113.32	8.63%
Windsor	ON	114.88	7.59%
Winnipeg	MB	110.66	12.93%

## MEXICO

City	State	Final Factor
Acapulco	GR	69.11
Aguascalientes	AG	67.95
Cancún	QR	73.08
Chihuahua	CH	68.54
Ciudad Del Carmen	CM	73.14
Guadalajara	JA	68.21
León	GT	67.99
Los Cabos	BS	73.55
Manzanillo	CL	68.79
Mazatlán	GR	68.30
Mérida	YU	73.15
Mexico City	DF	67.90
Monterrey	NL	71.48
Morelia	MI	67.99
Oaxaca	OA	66.55
Playa Del Carmen	QR	73.08
Puebla	PU	67.61
Puerto Vallarta	JA	68.32
Querétaro	QT	67.99
San Luis Potosí	SL	67.99
Tampico	TM	67.80
Tijuana	BC	80.59
Veracruz	VE	67.99
Villahermosa	GR	67.99

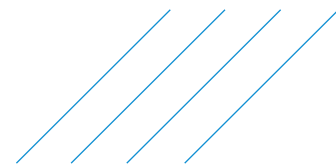


## 2019 Global Location Indices – Singapore Base

## INTERNATIONAL

Country	City	Final Factor	Country	City	Final Factor
<b>AFRICA</b>			Vietnam	Ho Chi Minh	43.94
Botswana	Gaborone	58.16	<b>CARIBBEAN</b>		
Egypt	Cairo	79.52	Antigua/Barbuda		117.65
Ghana	Accra	75.05	Bahamas		118.81
Kenya	Nairobi	31.58	Barbados		102.51
Mozambique	Maputo	74.36	Bermuda		157.48
Rwanda	Kigali	46.61	British Virgin Islands		122.93
Senegal	Dakar	67.16	Cayman Islands		128.65
South Africa	Johannesburg	39.41	Curacao		69.87
Tanzania	Dar es Salaam	36.28	Dominican Republic		61.84
Uganda	Kampala	41.77	Jamaica		75.51
Zambia	Lusaka	56.71	St. Lucia		88.10
Zimbabwe	Harare	72.72	St. Maarten		102.26
<b>ASIA</b>			Trinidad & Tobago		93.50
China	Beijing	64.46	Turks & Caicos		116.23
China	Chengdu	57.18	<b>EUROPE</b>		
China	Guangzhou	62.37	Austria	Vienna	115.47
China	Hong Kong	156.22	France	Paris	127.11
China	Macau	103.24	Germany	Berlin	108.45
China	Shanghai	62.64	Germany	Frankfurt	111.04
China	Shenzhen	60.88	Germany	Munich	119.87
China	Tianjin	54.35	Hungary	Budapest	63.52
China	Wuhan	36.19	Ireland	Dublin	109.19
China	Wuxi	57.62	Netherlands	Amsterdam	119.23
China	Xi'an	52.54	Norway	Oslo	130.05
China	Zhuhai	52.66	Poland	Warsaw	47.92
India	Ahmedabad	32.87	Spain	Barcelona	97.34
India	Bengaluru	31.95	Spain	Madrid	95.92
India	Chennai	31.87	Sweden	Stockholm	117.47
India	Goa	32.01	Switzerland	Zurich	158.40
India	Hyderabad	34.21	UK	Belfast	79.58
India	Kochi	33.21	UK	Birmingham	103.43
India	Kolkata	34.38	UK	Bristol	93.38
India	Mumbai	34.38	UK	Cardiff	93.38
India	New Delhi	35.55	UK	Edinburgh	90.05
India	Pune	33.21	UK	Leeds	117.72
Indonesia	Jakarta	32.17	UK	London	126.86
Japan	Tokyo	134.71	UK	Manchester	103.95
Kazakhstan	Atyrau	56.18	UK	Newcastle	100.48
Malaysia	Kuala Lumpur	37.83	UK	Nottingham	95.47
<b>Singapore</b>	<b>Singapore</b>	<b>100.00</b>	UK	Reading	122.12
South Korea	Seoul	76.98			
Thailand	Bangkok	37.56			

All locations have been factored to Singapore with a value of 100.



## 2019 Global Location Indices – Singapore Base

## INTERNATIONAL

Country	City	Final Factor
<b>MIDDLE EAST</b>		
Oman	Muscat	57.17
Qatar	Doha	95.74
Saudi Arabia	Riyadh	73.05
UAE	Abu Dhabi	64.06
UAE	Dubai	64.56
<b>OCEANIA</b>		
Australia	Adelaide	73.83
Australia	Brisbane	83.42
Australia	Canberra	95.67
Australia	Darwin	81.38
Australia	Melbourne	84.24
Australia	Perth	75.88
Australia	Sydney	98.52
New Zealand	Auckland	88.91
New Zealand	Christchurch	84.93
<b>SOUTH AND CENTRAL AMERICA</b>		
Argentina	Buenos Aires	50.27
Brazil	Brasília	36.68
Brazil	Rio de Janeiro	44.41
Brazil	São Paulo	45.41
Chile	Santiago	55.91
Colombia	Bogotá	48.50
Panama	Panama City	59.23

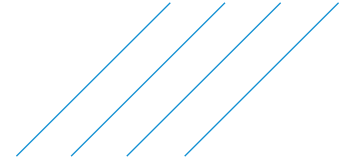
## Exchange Rates

United States Dollar	USD	1.00
Argentinian Peso	ARS	40.51
Australian Dollar	AUD	1.41
Brazilian Real	BRL	3.79
Canadian Dollar	CAD	1.33
Chinese Yuan Renminbi	CNY	6.73
Colombian Peso	COP	3096.95
Egyptian Pound	EGP	17.29
Euro	EUR	0.88
Great Britain Pound	GBP	0.75
Hong Kong Dollar	HKD	7.85
Indian Rupee	INR	69.03
Indonesian Rupiah	IDR	14227.72
Japanese Yen	JPY	111.42
Kenya Shilling	KES	100.89
Malaysia Ringgit	MYR	4.07
Macau Pataca	MOP	8.09
Mexican Peso	MXN	19.01

Nigerian Naira	NGN	360.92
New Zealand Dollar	NZD	1.46
Norwegian Krone	NOK	8.52
Omani Rial	OMR	2.60
Philippines Peso	PHP	52.89
Poland Zloty	PLN	3.78
Qatar Riyal	QAR	3.64
Saudi Arabia Riyal	SAR	3.75
Singapore Dollar	SGD	1.35
South African Rand	ZAR	14.50
Swedish Krona	SEK	9.21
Swiss Franc	CHF	1.00
Thai Baht	THB	31.67
Trinidad and Tobago Dollar	TTD	6.77
Tanzanian Shilling	TZS	2341.61
Vietnamese Dong	VND	23200.72
UAE Dirham	AED	3.67

Note: Exchange rates are accurate as of March 2019

All locations have been factored to Singapore with a value of 100.



## 2019 Global Location Indices – Singapore Base

Faithful+Gould’s global location factor update for 2019 has been developed with internal data from international sources, as well as research based on publicly available information.

- Indices have been calculated using a standardized approach considering actual labor, materials, productivity and total construction costs across all studied locations.
- The cost data used has been sourced from projects representative of typical western building standards.
- The indices are a relative representation of varying locations and economies; actual costs are dependent on unique project characteristics.
- Application of an index to a particular project requires specific analysis by one of our technical staff.
- All indices for locations outside of the United States have been calculated considering local inflation and currency values at the time of publication. Exchange rates used are listed in the downloadable file.

### Disclaimer

The data including location indices represented on this webpage and the information contained herein are provided for the user for guide and information purposes only and Faithful+Gould does not make any representation or warranty as to the factual accuracy of the information provided.

Factors such as the ratio of imported to local materials and labor and relative construction supply and demand for each project can have a substantial impact on international project cost.

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