

# How to obtain a GBI Certification

a presentation

by

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# **GBI Certification for NRNC and RNC v 3**

- **Easy? Or Difficult?**
  - **Baseline**
  - **Good Practice**
    - **Effort**



**Malaysia's  
own building regulations,  
codes of practices and guidelines**

**UBBL**

**MS1525**

**MSMA**

**Local Authority's guidelines**

**CIDB's IBS and QLASSIC**

**DoE Act**

**RE Act**

**KPKT guidelines on SWM**

# NRNC and RNC v 3

## Percentage of projects that have scored points

CRITERIA	CODES, BYLAWS, REGS	NRNC	RNC v 3
OTTV, Roof U-value	UBBL Clause 38A, MS1525	86.5 %	100 %
IAQ	UBBL	78.9 %	93.4 %
Site Selection	Local Authority	96.6 %	100 %
Density & Connectivity	Local Authority	92.0 %	100 %
Public Transportation	Local Authority	94.9 %	97.9 %
Rainwater Harvesting	Local Authority	55.3 %	72.3 %
Water Efficient Fittings	Local Authority	88.2 %	89.6 %
Greenery (UHI)	Local Authority	85.2 %	95.8 %
Daylighting	UBBL + MS1525	71.3 %	98.0 %

# NRNC and RNC v 3

## Percentage of projects that have scored points

CRITERIA	CODES, BYLAWS, REGS	NRNC	RNC v 3
QLASSIC	CIDB	76.4 %	73.0 %
Recyclables	KPKT + Local Authority	92.4 %	98.0 %
Earthworks	Local Authority	93.3 %	72.9 %
Workers' Site Amenities	Local Authority	86.1 %	93.4 %
Regional Materials	Local Authority	93.7 %	89.6 %
Recycled Contents	KPKT + Local Authority	76.0 %	93.8 %
Sustainable Maintenance	MS 1525	99.2 %	98.0 %
Stormwater Design	MSMA + Local Authority	80.6 %	91.7 %
Post Occupancy Evaluation	Good practice	97.1 %	97.9 %

# NRNC

	<b>CRITERIA</b>	<b>CODES, BYLAWS, REGS</b>	<b>%</b>
<b>EE2</b>	<b>Lighting Zoning</b>	<b>MS 1525</b>	<b>98.3%</b>
<b>EE3</b>	<b>Electric sub-metering</b>	<b>MS 1525</b>	<b>94.5%</b>
<b>EE7</b>	<b>Commissioning</b>	<b>MS 1525</b>	<b>94.5 %</b>
<b>EE8</b>	<b>EE Verification</b>	<b>MS 1525</b>	<b>66.7 %</b>
<b>EQ2</b>	<b>Smoking Control</b>	<b>MoH</b>	<b>96.2 %</b>
<b>EQ4</b>	<b>Indoor Air Pollutants</b>	<b>Local Authority</b>	<b>85.6%</b>
<b>EQ6</b>	<b>Thermal Comfort</b>	<b>MS1525 or ASHRAE 55</b>	<b>96.2%</b>
<b>EQ10</b>	<b>Electric Lighting Levels</b>	<b>MS 1525</b>	<b>87.8 %</b>
<b>EQ11</b>	<b>High Frequency Ballasts</b>	<b>MS 1525</b>	<b>97.5 %</b>
<b>SM10</b>	<b>Parking Capacity</b>	<b>Local Authority</b>	<b>80.6 %</b>

# RNC v 3

	<b>CRITERIA</b>	<b>CODES, BYLAWS, REGS</b>	<b>%</b>
EE4	External Lighting	MS1525	77.1 %
EE5	Internet Connectivity	SKMM	95.8 %
EQ2	VOC Minimization		95.8 %
EQ3	Formaldehyde Minimization		37.5 %
SM5	QLASSIC	CIDB	73.0 %
SM7	IBS	CIDB + Local Authority	68.8 %
SM9	Dedicated Cycling Network	Local Authority	66.7 %
SM12	Heat Island Effect Hardscape	Local Authority	79.2 %
SM13	Heat Island Effect Roof	UBBL + MS1525	64.6 %
SM14	Composting	KPKT	62.5 %
WE3	Water Efficient Irrigation	Local Authority	83.3 %

# OTTV

## UBBL Clause 38A + MS1525

**Building Orientation**

**Colour of External Walls**

**WWR**

**Wall U-value**

**Glass Shading Coeff & U-value**

**Shading Devices**





# Roof U-value

## UBBL Clause 38A + MS1525

Roof construction details

Mass Insulation

Reflective Insulation

Note

Site measurement at CVA



# RNC v 3

# EE2

## UBBL Clause 38A + MS1525

### GBI points

**Sliding scale points for OTTV : Roof Uv**

**Single Landed                      3 : 9**

**Strata Lowrise                      6 : 6**

**Strata Highrise                      9 : 3**



# Transportation

**Emphasis on multi modes of transport,  
not just distance**

**Note**

**Dedicated cycle paths**



# Water

**Emphasis on reduction in water consumption  
for Common Areas only,  
points for 10%, 30%, 40% and 50% reduction  
+  
water efficient fittings**



# Urban Heat Island

To tackle our tropical climate, and consistent with Local Authority's requirements, more points for increased landscaped areas

for

1. Greenscape and water bodies (5 pts)
2. Hardscape (2 pts)
3. Roof (1 pt)



**How Difficult or Easy  
to obtain  
a GBI Certified Rating  
for  
**NRNC****



# GBI Scoresheet

	Summary	NRNC	RNC v 3
EE	Energy Efficiency	35	23
EQ	Indoor Environmental Quality	21	12
SM	Sustainable Sites	16	33
MR	Materials & Resources	11	12
WE	Water Efficiency	10	12
IN	Innovation	7	8
	<b>Total</b>	<b>100</b>	<b>100</b>

GBI NRNC		GBI Score		
EE	Energy Efficiency	Max Points	Base line	Good Practice
EE1	Minimum EE Performance	1	1	0
EE2	Lighting Zoning	3	1	0
EE3	Electrical Sub-metering	1	1	0
EE4	Renewable Energy	5	0	0
EE5	Advanced Energy Performance BEI	15	0	0
EE6	Enhanced Commissioning	3	0	0
EE7	Post Occupancy Commissioning	2	1	0
EE8	EE Verification	2	2	0
EE9	Sustainable Maintenance	3	0	3
	EE total	35	6	3



<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>EQ1</b>	<b>Minimum IAQ Performance</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>EQ2</b>	<b>Environmental Tobacco Control</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>EQ3</b>	<b>CO2 Monitoring &amp; Control</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>EQ4</b>	<b>Indoor Air Pollutants</b>	<b>2</b>	<b>0</b>	<b>2</b>
<b>EQ5</b>	<b>Mould Prevention</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>EQ6</b>	<b>Thermal Comfort</b>	<b>2</b>	<b>2</b>	<b>0</b>
<b>EQ7</b>	<b>Air Change Effectiveness</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>EQ8</b>	<b>Daylighting</b>	<b>2</b>	<b>0</b>	<b>2</b>
<b>EQ9</b>	<b>Daylight Glare Control</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>EQ10</b>	<b>Electric Lighting Levels</b>	<b>1</b>	<b>1</b>	<b>0</b>

<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>EQ11</b>	<b>High Frequency Ballasts</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>EQ12</b>	<b>External Views</b>	<b>2</b>	<b>0</b>	<b>1</b>
<b>EQ13</b>	<b>Internal Noise Levels</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>EQ14</b>	<b>IAQ Before &amp; During Occupancy</b>	<b>2</b>	<b>2</b>	<b>0</b>
<b>EQ15</b>	<b>Post Occupancy Comfort Survey</b>	<b>2</b>	<b>0</b>	<b>2</b>
	<b>EQ Total</b>	<b>21</b>	<b>8</b>	<b>11</b>

<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
SM1	Site Selection	1	1	0
SM2	Brownfield Development	1	0	0
SM3	Development Density & Community Connectivity	2	1	1
SM4	Environment Management	2	1	1
SM5	Earthworks – Construction Activity Pollution Control	1	1	0
SM6	QLASSIC	1	0	1
SM7	Workers’ Site Amenities	1	1	0
SM8	Public Transportation Access	1	1	0
SM9	Green Vehicle Priority	1	0	1

<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>SM10</b>	<b>Parking Capacity</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>SM11</b>	<b>Stormwater Design</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>SM12</b>	<b>Greenery &amp; Roof</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>SM13</b>	<b>Building User Manual</b>	<b>1</b>	<b>0</b>	<b>1</b>
	<b>SM Total</b>	<b>16</b>	<b>9</b>	<b>6</b>

<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>MR1</b>	<b>Materials reuse and selection</b>	<b>2</b>	<b>0</b>	<b>1</b>
<b>MR2</b>	<b>Recycled content materials</b>	<b>2</b>	<b>0</b>	<b>1</b>
<b>MR3</b>	<b>Regional materials</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>MR4</b>	<b>Sustainable Timber</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>MR5</b>	<b>Storage &amp; collection of recyclables</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>MR6</b>	<b>Construction waste management</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>MR7</b>	<b>Refrigerants &amp; Clean Agents</b>	<b>2</b>	<b>0</b>	<b>0</b>
	<b>MR Total</b>	<b>11</b>	<b>2</b>	<b>2</b>

<b>GBI NRNC</b>		<b>GBI Score</b>		
<b>WE</b>	<b>Water Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>WE1</b>	<b>Rainwater Harvesting</b>	<b>2</b>	<b>1</b>	<b>0</b>
<b>WE2</b>	<b>Water Recycling</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>WE3</b>	<b>Water Efficient – Irrigation / Landscaping</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>WE4</b>	<b>Water Efficient Fittings</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>WE5</b>	<b>Metering and Leak Detection</b>	<b>2</b>	<b>0</b>	<b>2</b>
	<b>MR Total</b>	<b>10</b>	<b>2</b>	<b>3</b>

GBI NRNC		GBI Score		
IN	Innovation	Max Points	Base line	Good Practice
IN1	Innovation in design	6		
IN2	GBI Facilitator	1	0	0
	MR Total	7	0	0

<b>GBI NRNC</b>		<b>GBI Score</b>		
	<b>Summary</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>EE</b>	<b>Energy Efficiency</b>	<b>35</b>	<b>6</b>	<b>3</b>
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>21</b>	<b>8</b>	<b>11</b>
<b>SM</b>	<b>Sustainable Sites</b>	<b>16</b>	<b>9</b>	<b>6</b>
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>11</b>	<b>2</b>	<b>2</b>
<b>WE</b>	<b>Water Efficiency</b>	<b>10</b>	<b>2</b>	<b>3</b>
<b>IN</b>	<b>Innovation</b>	<b>7</b>	<b>0</b>	<b>0</b>
	<b>Summary Total</b>	<b>100</b>	<b>27</b>	<b>25</b>
			<b>52</b>	



**How Difficult or Easy  
to obtain  
a GBI Certified Rating  
for  
**RNC v 3****



<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>EE</b>	<b>Energy Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
EE1	Minimum EE Performance	1	1	0
EE2	Advanced EE Performance	12	0	2
EE3	Renewable Energy	5	0	0
EE4	External Lighting and Control	2	1	1
EE5	Internet Connectivity	1	1	0
EE6	Sustainable Maintenance + BUM	2	1	1
	<b>EE total</b>	<b>23</b>	<b>4</b>	<b>4</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
EQ1	Minimum IAQ Performance	3	1	2
EQ2	VOC Minimization	2	1	1
EQ3	Formaldehyde Minimization	1	0	1
EQ4	Daylighting	3	2	0
EQ5	External Views	1	0	1
EQ6	Sound Insulation	1	1	0
EQ7	Post Occupancy Evaluation	1	0	1
	<b>EQ Total</b>	<b>12</b>	<b>5</b>	<b>6</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
SM1	Site Selection	1	1	0
SM2	Brownfield Development	1	0	0
SM3	Community Connectivity	4	1	3
SM4	Earthworks – Construction Activity Pollution Control	1	1	0
SM5	QLASSIC	1	0	1
SM6	Workers’ Site Amenities	1	1	0
SM7	IBS	2	0	1
SM8	Public Transportation Access	8	2	1
SM9	Dedicated Cycling Network	2	1	0

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
SM10	Stormwater Design	3	1	0
SM11	Heat island Effect - Greenscape	5	1	1
SM12	Heat island Effect - Hardscape	2	1	1
SM13	Heat island Effect - Roof	1	1	0
SM14	Composting	1	1	0
	<b>SM Total</b>	<b>33</b>	<b>12</b>	<b>8</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
MR1	Materials reuse and selection	2	0	1
MR2	Recycled content materials	2	0	1
MR3	Regional materials	2	1	1
MR4	Sustainable Timber	2	0	0
MR5	Storage & collection of recyclables	2	1	1
MR6	Construction waste management	2	0	1
	<b>MR Total</b>	<b>12</b>	<b>2</b>	<b>5</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>WE</b>	<b>Water Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>WE1</b>	<b>Rainwater Harvesting</b>	<b>4</b>	<b>1</b>	<b>1</b>
<b>WE2</b>	<b>Water Recycling</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>WE3</b>	<b>Water Efficient – Irrigation / Landscaping</b>	<b>2</b>	<b>0</b>	<b>1</b>
<b>WE4</b>	<b>Water Efficient Fittings</b>	<b>4</b>	<b>2</b>	<b>1</b>
	<b>MR Total</b>	<b>12</b>	<b>3</b>	<b>3</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>		
<b>IN</b>	<b>Innovation</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>IN1</b>	<b>Innovation in design</b>	<b>7</b>	<b>0</b>	<b>0</b>
<b>IN2</b>	<b>GBI Facilitator</b>	<b>1</b>	<b>0</b>	<b>0</b>
	<b>MR Total</b>	<b>8</b>	<b>0</b>	<b>0</b>



<b>GBI RNC v 3</b>		<b>GBI Score</b>		
	<b>Summary</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>
<b>EE</b>	<b>Energy Efficiency</b>	<b>23</b>	<b>4</b>	<b>4</b>
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>12</b>	<b>5</b>	<b>6</b>
<b>SM</b>	<b>Sustainable Sites</b>	<b>33</b>	<b>12</b>	<b>8</b>
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>12</b>	<b>2</b>	<b>5</b>
<b>WE</b>	<b>Water Efficiency</b>	<b>12</b>	<b>3</b>	<b>3</b>
<b>IN</b>	<b>Innovation</b>	<b>8</b>	<b>0</b>	<b>0</b>
	<b>Summary Total</b>	<b>100</b>	<b>26</b>	<b>26</b>
			<b>52</b>	

**How Difficult or Easy  
to obtain  
a GBI Gold Rating  
for  
**NRNC****



<b>GBI NRNC</b>		<b>GBI Score</b>			
<b>EE</b>	<b>Energy Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>EE1</b>	<b>Minimum EE Performance</b>	<b>1</b>	<b>1</b>	<b>0</b>	
<b>EE2</b>	<b>Lighting Zoning</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>EE3</b>	<b>Electrical Sub-metering</b>	<b>1</b>	<b>1</b>	<b>0</b>	
<b>EE4</b>	<b>Renewable Energy</b>	<b>5</b>	<b>0</b>	<b>0</b>	
<b>EE5</b>	<b>Advanced Energy Performance BEI</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>8</b>
<b>EE6</b>	<b>Enhanced Commissioning</b>	<b>3</b>	<b>0</b>	<b>0</b>	
<b>EE7</b>	<b>Post occupancy Commissioning</b>	<b>2</b>	<b>1</b>	<b>0</b>	
<b>EE8</b>	<b>EE Verification</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>EE9</b>	<b>Sustainable Maintenance</b>	<b>3</b>	<b>0</b>	<b>3</b>	
	<b>EE total</b>	<b>35</b>	<b>6</b>	<b>3</b>	<b>10</b>

<b>GBI NRNC</b>		<b>GBI Score</b>			
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
EQ11	High Frequency Ballasts	1	1	0	
EQ12	External Views	2	0	1	1
EQ13	Internal Noise Levels	1	0	1	
EQ14	IAQ Before & During Occupancy	2	2	0	
EQ15	Post Occupancy Comfort Survey	2	0	2	
	<b>EQ Total</b>	<b>21</b>	<b>8</b>	<b>11</b>	<b>1</b>

<b>GBI NRNC</b>		<b>GBI Score</b>			
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>MR1</b>	<b>Materials reuse and selection</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>MR2</b>	<b>Recycled content materials</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>MR3</b>	<b>Regional materials</b>	<b>1</b>	<b>1</b>	<b>0</b>	
<b>MR4</b>	<b>Sustainable Timber</b>	<b>1</b>	<b>0</b>	<b>0</b>	
<b>MR5</b>	<b>Storage &amp; collection of recyclables</b>	<b>1</b>	<b>1</b>	<b>0</b>	
<b>MR6</b>	<b>Construction waste management</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>MR7</b>	<b>Refrigerants &amp; Clean Agents</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
	<b>MR Total</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>4</b>

<b>GBI NRNC</b>		<b>GBI Score</b>			
<b>WE</b>	<b>Water Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>WE1</b>	<b>Rainwater Harvesting</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>WE2</b>	<b>Water Recycling</b>	<b>2</b>	<b>0</b>	<b>0</b>	
<b>WE3</b>	<b>Water Efficient – Irrigation / Landscaping</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>WE4</b>	<b>Water Efficient Fittings</b>	<b>2</b>	<b>1</b>	<b>1</b>	
<b>WE5</b>	<b>Metering and Leak Detection</b>	<b>2</b>	<b>0</b>	<b>2</b>	
	<b>MR Total</b>	<b>10</b>	<b>2</b>	<b>3</b>	<b>2</b>

<b>GBI NRNC</b>		<b>GBI Score</b>			
<b>IN</b>	<b>Innovation</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>IN1</b>	<b>Innovation in design</b>	<b>6</b>			
	<b>Recycling of Fire Testing water</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Regenerative Lifts</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Charging stations</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Condensate water harvesting</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Refrigerant leak detection &amp; recovery</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Herb garden</b>		<b>0</b>	<b>0</b>	<b>1</b>
<b>IN2</b>	<b>GBI Facilitator</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
	<b>MR Total</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>

<b>GBI NRNC</b>		<b>GBI Score</b>			
	<b>Summary</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>EE</b>	<b>Energy Efficiency</b>	<b>35</b>	<b>6</b>	<b>3</b>	<b>10</b>
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>21</b>	<b>8</b>	<b>11</b>	<b>1</b>
<b>SM</b>	<b>Sustainable Sites</b>	<b>16</b>	<b>9</b>	<b>6</b>	<b>0</b>
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>4</b>
<b>WE</b>	<b>Water Efficiency</b>	<b>10</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>IN</b>	<b>Innovation</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>
	<b>Summary Total</b>	<b>100</b>	<b>27</b>	<b>25</b>	<b>24</b>
	<b>GOLD</b>		<b>76</b>		



**How Difficult or Easy  
to obtain**

**a GBI Gold Rating**

**for**

**RNC v 3**



<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>EE</b>	<b>Energy Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
EE1	Minimum EE Performance	1	1	0	
EE2	Advanced EE Performance	12	0	2	<b>6</b>
EE3	Renewable Energy	5	0	0	
EE4	External Lighting and Control	2	1	1	
EE5	Internet Connectivity	1	1	0	
EE6	Sustainable Maintenance + BUM	2	1	1	
	<b>EE total</b>	<b>23</b>	<b>4</b>	<b>4</b>	<b>6</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
EQ1	Minimum IAQ Performance	3	1	2	
EQ2	VOC Minimization	2	1	1	
EQ3	Formaldehyde Minimization	1	0	1	
EQ4	Daylighting	3	2	0	<b>1</b>
EQ5	External Views	1	0	1	
EQ6	Sound Insulation	1	1	0	
EQ7	Post Occupancy Evaluation	1	0	1	
	<b>EQ Total</b>	<b>12</b>	<b>5</b>	<b>6</b>	<b>1</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
SM1	Site Selection	1	1	0	
SM2	Brownfield Development	1	0	0	
SM3	Community Connectivity	4	1	3	
SM4	Earthworks – Construction Activity Pollution Control	1	1	0	
SM5	QLASSIC	1	0	1	
SM6	Workers’ Site Amenities	1	1	0	
SM7	IBS	2	0	1	
SM8	Public Transportation Access	8	2	1	<b>3</b>
SM9	Dedicated Cycling Network	2	1	0	

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>SM</b>	<b>Sustainable Sites</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
SM10	Stormwater Design	3	1	0	1
SM11	Heat island Effect - Greenscape	5	1	1	2
SM12	Heat island Effect - Hardscape	2	1	1	
SM13	Heat island Effect - Roof	1	1	0	
SM14	Composting	1	1	0	
	<b>SM Total</b>	<b>33</b>	<b>12</b>	<b>8</b>	<b>6</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>MR1</b>	<b>Materials reuse and selection</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>MR2</b>	<b>Recycled content materials</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>MR3</b>	<b>Regional materials</b>	<b>2</b>	<b>1</b>	<b>1</b>	
<b>MR4</b>	<b>Sustainable Timber</b>	<b>2</b>	<b>0</b>	<b>0</b>	
<b>MR5</b>	<b>Storage &amp; collection of recyclables</b>	<b>2</b>	<b>1</b>	<b>1</b>	
<b>MR6</b>	<b>Construction waste management</b>	<b>2</b>	<b>0</b>	<b>1</b>	
	<b>MR Total</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>2</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>WE</b>	<b>Water Efficiency</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>WE1</b>	<b>Rainwater Harvesting</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>WE2</b>	<b>Water Recycling</b>	<b>2</b>	<b>0</b>	<b>0</b>	
<b>WE3</b>	<b>Water Efficient – Irrigation / Landscaping</b>	<b>2</b>	<b>0</b>	<b>1</b>	
<b>WE4</b>	<b>Water Efficient Fittings</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>
	<b>MR Total</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>3</b>

<b>GBI RNC v 3</b>		<b>GBI Score</b>			
<b>IN</b>	<b>Innovation</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>IN1</b>	<b>Innovation in design</b>	<b>7</b>	<b>0</b>	<b>0</b>	
	<b>Herb Garden</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Charging stations</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>External shading devices (&gt;50%)</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>Real time display</b>		<b>0</b>	<b>0</b>	<b>1</b>
	<b>5-star appliances</b>		<b>0</b>	<b>0</b>	<b>1</b>
<b>IN2</b>	<b>GBI Facilitator</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
	<b>MR Total</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>6</b>





<b>GBI RNC v 3</b>		<b>GBI Score</b>			
	<b>Summary</b>	<b>Max Points</b>	<b>Base line</b>	<b>Good Practice</b>	<b>Gold</b>
<b>EE</b>	<b>Energy Efficiency</b>	<b>23</b>	<b>4</b>	<b>4</b>	<b>6</b>
<b>EQ</b>	<b>Indoor Environmental Quality</b>	<b>12</b>	<b>5</b>	<b>6</b>	<b>1</b>
<b>SM</b>	<b>Sustainable Sites</b>	<b>33</b>	<b>12</b>	<b>8</b>	<b>6</b>
<b>MR</b>	<b>Materials &amp; Resources</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>2</b>
<b>WE</b>	<b>Water Efficiency</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>IN</b>	<b>Innovation</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>6</b>
	<b>Summary Total</b>	<b>100</b>	<b>26</b>	<b>26</b>	<b>24</b>
	<b>GOLD</b>		<b>76</b>		



# How to obtain a GBI Certification

**Thank You**

