

**RESIDENTIAL AND LANDED HOME BUILDING (RES)**

Criteria	Update / Revision
<b><u>GENERAL : PRE REQUISITE REQUIREMENT</u></b>	1. No EUI requirements are applicable for common areas in non-gated and non-guarded residential landed developments.
<b><u>RES 1-2 (A) OPTION 1 (I) &amp; (II) NATURALLY VENTILATED DESIGN</u></b>	Credits for cross-ventilated spaces now require an effective room depth of less than 6m for rooms with a single window on one wall.
<b><u>RES 1-2 (A) OPTION 2 (I) &amp; (II) MECHANICAL CEILING FAN</u></b>	Developers who provide mechanical ceiling fans in dwelling spaces can earn points, prorated based on the percentage of spaces with fans. Inclusion in the building user guide is required for point scoring.
<b><u>RES 1-2 (A) OPTION 2 (I)(A) AIR FLOW WITHIN THE DWELLING UNITS</u></b>	Rooms with a single window for single-sided ventilation must have an effective room depth of less than 6m to be considered truly cross-ventilated, according to MS 2680:2017.
<b><u>RES 1-2: VENTILATION IN COMMON AREA</u></b>	1. Common area staircases that are part of BOMBA (Fire and Rescue Department) requirements can now be considered for ventilation and daylighting credits.
<b><u>RES 1-4 :ARTIFICIAL LIGHTING</u></b>	1. For non-gated and non-guarded residential landed developments (individual title), points cannot be scored for artificial lighting as there are no common areas to assess
<b><u>RES 1-9 : ENERGY EFFICIENT FEATURES</u></b>	1. Revised Energy Usage Intensity (EUI) for Residential Common Area: $EUI = [(TBEC - CPEC) / GFA \text{ (common area excluding carpark)}]$ <p>Where;  TBEC = Total building energy consumption for common area(kWh/year)  CPEC = Car Park Energy Consumption in (kWh/year)  GFA = Gross Floor Area for common area (exclude car park area) (m<sup>2</sup>)</p>
<b><u>RES 3-4: ENVIRONMENTAL MANAGEMENT</u></b>	1. Both the Building User Guide and Sustainable Operation Management Guideline are now mandatory prerequisites for all GreenRE certification tools.
<b><u>RES 4-4 INDOOR AIR QUALITY IN WET AREAS</u></b>	Open concept kitchens (Dining + Living) are no longer considered naturally ventilated. Only partitioned kitchens with sufficient openable windows will qualify.

<p><b><u>RES 1-5 : GREEN FEATURES</u></b></p>	<p>The following features are no longer accepted as Green Features:</p> <ul style="list-style-type: none"> <li>i. Precast Culvert Drain</li> <li>ii. Steel with Recycled Content in Rebar</li> <li>iii. Aluminium Recycled Content in Window and Door Frames</li> <li>iv. Indoor Air Quality Audit for Residential Developments</li> <li>v. Virtual Show Gallery</li> <li>vi. ESG Reporting</li> <li>vii. No Plastic Campaign During Construction</li> </ul>
<p><b><u>RES 6-1 : CARBON EMISSION OF DEVELOPMENT</u></b></p>	<ol style="list-style-type: none"> <li>1. The carbon emission factors for operational carbon calculation have been updated:   Energy: 0.639 kgCO<sub>2</sub>e/kWh for Peninsular Malaysia and 0.512 kgCO<sub>2</sub>e/kWh for Sabah &amp; Sarawak.  Water: 0.419 kgCO<sub>2</sub>e/m<sup>3</sup>.</li> <li>2. Operational carbon footprint calculation to include the residential units.</li> </ol>