



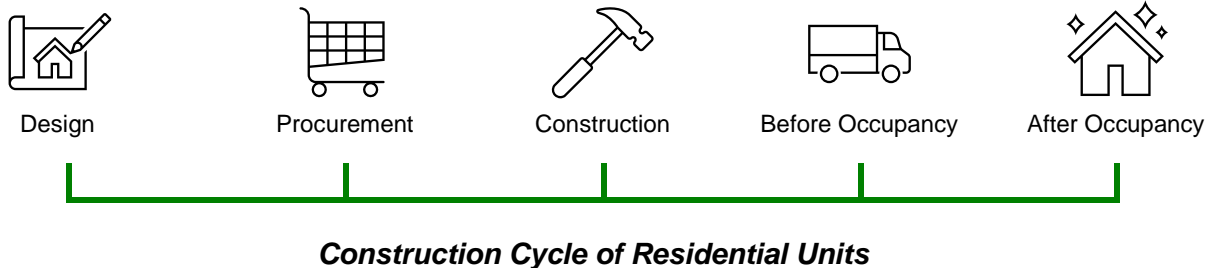
# BEAM Plus Interiors V2.0

## Checklist for Residential Units

### Instruction

This checklist provides a set of items and requirements towards rating achievement of BEAM Plus Interiors V2.0 for Residential Units. Photo records are required for each attempted item, with optional description. A set of annotated floor plans before and after renovation shall also be prepared for submission.

The checklist items are categorised based on the construction cycle of residential units. The Applicant can find out the material timeline of each item clearly to avoid any delay in incorporating related features into the design.















### Rating Methodology

















- 1. Green Rating:** Achievement of at least 30 items of the whole checklist, with fulfilment of at least 1 item for each performance category; or
- 2. Green+ Rating:** Achievement of at least 45 items of the whole checklist, with fulfilment of at least 1 item for each performance category.

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## Integrated Design and Construction Management (IDCM)











Items and requirements		Photo and/or basic description
Practice under items 1- 5 aim at reducing air pollution during fit-out activities.		
 <input type="checkbox"/>	<b>1.</b> Provide walk-off mats at entryways to prevent carrying dust from shoes into common corridor.	
 <input type="checkbox"/>	<b>2.</b> Only use windows for ventilation. Keep the main door closed and seal all gaps with coverings or wet towels to avoid causing nuisance to the neighbours.	
 <input type="checkbox"/>	<b>3.</b> Cover up cement, sand, debris or other dusty materials stored on-site and keep materials organised to improve housekeeping.	
 <input type="checkbox"/>	<b>4.</b> Conduct flush-out <sup>1</sup> by mechanical or natural means for a week as minimum before occupancy to remove pollutant residue from finishes and furnishings.	
 <input type="checkbox"/>	<b>5.</b> No noisy activities before 9 am and after 6 pm or within operation hours as agreed with the property management company and no noisy fit-out activities are carried out on Sundays and public holidays to avoid causing noise nuisance to the neighbours.	
 <input type="checkbox"/>	<b>6.</b> Treat and dispose of chemical waste <sup>2</sup> properly to reduce potential chemical waste problems.	
 <input type="checkbox"/>	<b>7.</b> Recycle waste from fit-out activities to reduce burden on landfill.	
 <input type="checkbox"/>	<b>8.</b> Adopt easy-to-clean and easy-to-maintain designs to facilitate unit maintenance. For example, a ceiling is painted properly without any false ceiling.	
 <input type="checkbox"/>	<b>9.</b> Minimise paper usage during renovation to treasure tree resources. For example, using digital tools for design presentations.	
 <input type="checkbox"/>	<b>10.</b> Select transformable furniture <sup>3</sup> to accommodate different functions of interior spaces.	
 <input type="checkbox"/>	<b>11.</b> Involve a BEAM Pro <sup>4</sup> in the whole design process to facilitate BEAM Plus certification.	
 <input type="checkbox"/>	<b>12.</b> Involve a BEAM Pro <sup>4</sup> in the whole build process to facilitate BEAM Plus certification.	
<b>Total</b>		<b>/ 12</b>

## Materials and Waste (MW)

Items and requirements		Photo and/or basic description
	<b>1.</b> Procure certified green products endorsed by Construction Industry Council (CIC) Green Product Certification <sup>5</sup> or internationally recognised standards <sup>6</sup> for each of the following items to support products with less carbon footprint:	
	<input type="checkbox"/> <b>a.</b> Paint & coating;	
	<input type="checkbox"/> <b>b.</b> Adhesive & sealant;	
	<input type="checkbox"/> <b>c.</b> Others to be proposed by the Applicant; and	
	<input type="checkbox"/> <b>d.</b> Others to be proposed by the Applicant.	
	<b>2.</b> Provide a recycling bin or dedicated sorting area for each of the following items to cultivate recycling habits:	
	<input type="checkbox"/> <b>a.</b> Paper;	
	<input type="checkbox"/> <b>b.</b> Metal;	
	<input type="checkbox"/> <b>c.</b> Plastic; and	
	<input type="checkbox"/> <b>d.</b> Glass bottle.	
	<input type="checkbox"/> <b>3.</b> Purchase regional building materials <sup>7</sup> , including paint, wall coverings and floorings, to reduce carbon footprint from transportation.	
	<input type="checkbox"/> <b>4.</b> Purchase at least 1 reused, second-hand or environmentally certified <sup>7</sup> furniture to minimise environmental impact.	
	<input type="checkbox"/> <b>5.</b> Adopt environmentally certified <sup>6</sup> flooring to all spaces to encourage the use of green products that have low environmental impacts.	
	<input type="checkbox"/> <b>6.</b> Install a food waste processor/ composter for kitchen to encourage best practices for food waste management. For example, food waste grinders.	
	<b>7.</b> No demolition for each of the following items from the original setting to reduce waste generated:	
	<input type="checkbox"/> <b>a.</b> False ceiling;	
	<input type="checkbox"/> <b>b.</b> Wall; and	
	<input type="checkbox"/> <b>c.</b> Flooring.	
	<input type="checkbox"/> <b>8.</b> Reuse at least 3 of the following items (at least 50% extent of applications in any selected items. For example, original 2 bathtubs and therefore need to reuse 1 bathtub) to extend their life cycle:	Require photo records showing before and after fit-out works

- Bathtubs  Faucets  WC closets  Doors  Sinks
- Ventilation fans  Built-in furniture  Windows
- Others to be proposed by the Applicant.

**9.** Reuse the following electrical appliances (at least 50% extent of applications in any selected items. For example, original 4 AC units and therefore need to reuse 2 AC units) to reduce unnecessary wastage:

-   **a.** Air-conditioners;
-   **b.** Washing machines;
-   **c.** Refrigerators;
-   **d.** Dehumidifiers;
-   **e.** Televisions;
-   **f.** Induction cookers;
-   **g.** Water heaters;
-   **h.** Range hoods;
-   **i.** Light fittings; and
-   **j.** Others to be proposed by the Applicant.

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**Total** **/ 26**













## Energy Use (EU)

**Items and requirements**

**Photo and/or basic description**

**1.** Install all new home appliances with Grade 1 Energy Label (Mandatory Energy Efficiency Labelling Scheme)<sup>8</sup> for each of the following items to encourage wider use of energy-efficient appliances:

-   **a.** Air-conditioners;
-   **b.** Washing machines;
-   **c.** Refrigerators;

-   d. Dehumidifiers;
-   e. Televisions; and
-   f. Induction cookers.
-   **2.** Install either Grade 1 (Mandatory Energy Efficiency Labelling Scheme)<sup>8</sup> new storage type electric water heaters or new domestic gas instantaneous water heaters with recognised label to encourage wider use of energy-efficient appliances.
-   **3.** Adopt double layered external windows or innovative insulators, such as solar films, for windows facing east or west at least, to reduce solar heat gain through windows.
-   **4.** Establish clear light zoning for ease of control of lighting based on usage.
-   **5.** Keep refrigerators away from sunlight and well-ventilated to reduce energy wastage due to overheating.
-   **6.** Install sockets with an on/off button at exposed areas to reduce energy wastage under idling mode.
-   **7.** Provide a drying rack or retractable clothesline to encourage use of natural resources for clothes drying purpose.
-   **8.** Use LED lighting in all light fittings (except decorative lighting) to reduce energy consumption.
-   **9.** Comply with the manufacturer’s recommended installation position of all air conditioners regarding internal spaces, unobstructed air circulation and minimum width of any external recess for heat rejection to enhance working efficiency. (Submittals include the manufacturer’s recommended installation dimensions and photos showing installation dimensions of air conditioners)
-   **10.** Install smart home devices<sup>9</sup> to manage household energy and drive behavioural change.




**Total**




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## Water Use (WU)

### Items and requirements














### Photo and/or basic description



-   **1.** Install all water taps or flow controllers for water taps with Grade 1 Label (Voluntary Water Efficiency Labelling Scheme)<sup>10</sup> to reduce consumption of fresh water.
-   **2.** Install all shower heads or flow controllers for shower heads with Grade 1 Label (Voluntary Water Efficiency Labelling Scheme)<sup>10</sup> to reduce consumption of fresh water.


-   **3.** Install all new washing machines with Grade 1 Label (Voluntary Water Efficiency Labelling Scheme)<sup>10</sup> to encourage wider use of water efficient facilities.
-   **4.** Install dual flush water closets at all bathrooms to reduce burden on the municipal sewage treatment facilities.
-   **5.** Do not install rain showers at all bathrooms to reduce fresh water usage during bathing.


**Total** **/ 5**

## Health and Wellbeing (HWB)

	Items and requirements	Photo and/or basic description
	<input type="checkbox"/> <b>1.</b> Ensure at least a pair of adequately sized windows <sup>11</sup> can be opened to promote cross ventilation <sup>12</sup> .	
	<input type="checkbox"/> <b>2.</b> Install a sizable ceiling fan <sup>13</sup> to enhance ventilation.	
	<input type="checkbox"/> <b>3.</b> Use water-based or low-VOC paints to minimise the impacts on indoor air quality.	
	<input type="checkbox"/> <b>4.</b> Install a sizable indoor air purifier <sup>13</sup> to reduce TVOC & Particulates.	
	<input type="checkbox"/> <b>5.</b> All floor drains are easily accessible to facilitate drainage maintenance.	
	<input type="checkbox"/> <b>6.</b> Use all light fittings with CRI <sup>14</sup> greater than 80 (excluding decorative lighting) to ensure that the appearance of objects is revealed close to its original colour.	
	<input type="checkbox"/> <b>7.</b> Do not block all windows from having daylighting and outside view to enhance circadian and psychological health.	
	<input type="checkbox"/> <b>8.</b> Separate zone with noisy activities from that of quieter ones to prevent acoustical disturbance.	
	<input type="checkbox"/> <b>9.</b> Adopt acoustic features to eliminate possible noise nuisance. For example, acoustic panels, carpets, door seal, etc.	
	<input type="checkbox"/> <b>10.</b> Provide at least one potted plant per habitable space to have constant interaction with natural elements.	
	<input type="checkbox"/> <b>11.</b> Install a piece of fitness equipment at home to promote regular physical activity. For example, a dumbbell.	
	<input type="checkbox"/> <b>12.</b> Adopt family-friendly design to cater the needs across different family members. For example, design for elderly or disability.	
	<input type="checkbox"/> <b>13.</b> Adopt ergonomic features in the design to reduce physical strain and injury.	

-  **14.** Install window blinds at all spaces (other than storage) to reduce glare.
-  **15.** Install a clothes sanitising machine to kill germs and bacteria adhered on our clothes.


**Total** / 15

## Innovations and Additions (IA)

### Items and requirements

### Photo and/or basic description

1. Present evidence of the application of new practices, technologies and/ or techniques that are not described in this checklist; and the associated benefits in addressing sustainability objectives for residential units:
  - a. Proposal 1;
  - b. Proposal 2;
  - c. Proposal 3;
  - d. Proposal 4;
  - e. Proposal 5;
  - f. Proposal 6;
  - g. Proposal 7;
  - h. Proposal 8;
  - i. Proposal 9; and
  - j. Proposal 10.


**Total** / 10

- End of checklist -



## Supplementary Notes

1. Flush out: An air flush is a technique whereby air is forced through a residential unit prior to occupancy in order to remove or reduce pollutants, such as VOCs and particulate matter.
2. Chemical waste, such as paint, solvent, etc.
3. Transformable furniture with space saving fittings or multifunction, such as foldable bed, expandable table, etc.
4. BEAM Professional with a valid credential for BEAM Plus Interiors V2.0.

5. Reference Label of CIC Green Product Certification:



6. Examples of Environmentally Certified Label:



- Regional materials: The point of raw materials and manufacture shall be located within an 800km radius of the HKSAR by road transportation; within a 1,600km radius by rail transportation; or within a 4,000km radius by sea transportation.



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- Mandatory Energy Efficiency Labelling Scheme



(Source: [https://www.emsd.gov.hk/en/energy\\_efficiency/mandatory\\_energy\\_efficiency\\_labelling\\_scheme/](https://www.emsd.gov.hk/en/energy_efficiency/mandatory_energy_efficiency_labelling_scheme/))

- Smart home devices, such as smart lighting control, smart plug, etc.

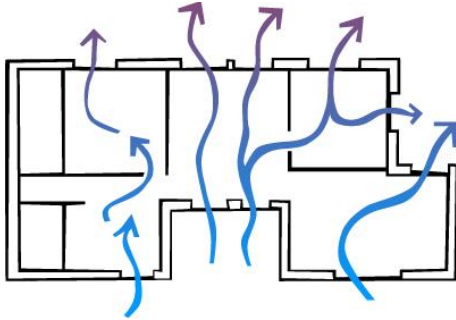
- Voluntary Water Efficiency Labelling Scheme



(Source: <https://www.wsd.gov.hk/en/plumbing-engineering/water-efficiency-labelling-scheme/index.html>)

- Adequately sized windows: Do not change the openable window areas from original building layout plan.

12. Cross ventilation: Units can be considered to have good cross ventilation when the air flow path between facade openings is relatively unobstructed. All openable windows and internal doors (excluding the main entrance) within units can be counted for ventilation.



(Source: <https://build.com.au/wind-ventilation-and-cross-ventilation>)

13. Sizable ceiling fan/ indoor air purifier: “Sizable” means the operation of fans or indoor air purifiers can cover the size of room where you place them. The recommended covered area shall base on the manufacturer’s manual.
14. Colour Rendering Index (CRI): The ability of a light source to reveal colours of objects. High CRI means that the appearance of objects is revealed close to natural light.



(Source: <https://www.usa.lighting.philips.com/consumer/led-lights/quality-of-light-led-lighting>)