



Circular Letter No.: 2022.177

Issue Date: 13 May 2022

Application: BEAM Plus NB Version 2.0

Effective Date: 13 May 2022

MW P1 Minimum Waste Handling Facilities

1. The Technical Circular Letter hereby announces an update to the credit content for **MW P1 Minimum Waste Handling Facilities** under BEAM Plus NB v2.0.
2. The aim of the update is to clarify the conditions for buildings being exempted from the provision of refuse storage and material recovery chamber (RS&MRC) and/ or refuse storage and material recovery room (RS&MRR) with the requirement of an alternative proposal on the provision of waste recycling facilities.
3. The requirements given in Section 4.P of the BEAM Plus NB v2.0 Manual are hereby updated with the enclosures in Annex A of this Technical Circular Letter.
 - Pages Annex A-1 to A-4 shall replace all contents specified in Page 178 to 181 under BEAM Plus NB v2.0 (2021 Edition).
4. Approved PA projects: For projects that have already completed PA and have certain assessment approach approved, the Applicant may opt to adopt the same assessment criteria for FA or voluntarily comply with this Technical Circular Letter. For the avoidance of doubt, the Applicant shall provide PA evidence (e.g., extract of the PA report, documents submitted for assessment in PA, etc.) in subsequent assessments to support the intention of using the same assessment methodology as in PA.

A handwritten signature in black ink, appearing to read "Colin Chung", is written over a horizontal line.

Ir Colin Chung
Chairperson of Standards Sub-committee

**Annex A:
Updated Credit Content for Section 4.P under BEAM Plus NB v.2.0**

4 Material and Waste	4.P	Prerequisite
	MW P1	Minimum Waste Handling Facilities
Extent of Application	All buildings except one-single family domestic building with not more than 3 floors, or domestic part of a composite building for one single family with not more than 3 floors, or a building not normally occupied or for transient stay (e.g. pump house, sewage treatment plant, carpark building).	
Objective	Reduce waste generation at source, reduce pressure on landfill sites and help to preserve non-renewable resources by promoting recycling of waste materials.	
Credits Attainable	Prerequisite	
Credit Requirement	Prerequisite achieved for meeting the minimum provisions of waste recycle facilities for the collection, sorting, storage, recycling (recovered material) and disposal (waste).	
Assessment	<p>The assessment shall take into account how a system of waste collection, storage, sorting, recycling and disposal can be managed for the buildings, with consideration given to the adequacy of space provisions on individual floors, within the building as a whole, and at local/ estate level. There should be opportunities for the management of different waste types, such as organic, non-recyclable and recyclable waste. Easy access to the facilities shall be provided for cleaning staff, contractors, building users and waste recycling and collection companies.</p> <p>(a) Recycle & Waste Management Strategy Plan</p> <ol style="list-style-type: none"> 1. Provide proposal to: <ol style="list-style-type: none"> 1.1 Identify and estimate the quantities of expected waste streams (organic, recyclable and non-recyclable) of the development; 1.2 Demonstrate adequate numbers of general refuse bin(s) and in particular, recycling bin(s) provided to cater for the general waste and recyclables generated from the development as per the waste stream calculation mentioned in 1.1; 1.3 Demonstrate compliance with the space requirement of waste recycling facilities (for waste storage, sorting and recycling), including sufficient size to cope with the numbers of general refuse bins and recycling bins as listed in (b); 1.4 Elaborate the storage for recycling of, as a minimum, materials listed in (c); and 1.5 Demonstrate management plan, accessibility and hygiene. It includes the outlines of how the municipal solid waste disposal rate can be reduced by the waste management hierarchy - prevention, reuse, recycling, recovery and disposal; what is the collection and separation methodology of waste and recyclables; and how the building users dispose refuses and recyclables and janitorial staffs collect and deliver to refuse storage and material recovery chambers (RS&MRC) & Refuse Chutes. 	

(b) Waste Recycling Facilities

1. Refuse Storage and Material Recovery Chambers (RS&MRC) Provision

Demonstrate RS&MRC of adequate size to cope with the waste generated. Prescribed space requirements are listed below:

Space Usage	Factor for Calculating Minimum Space Requirement of RS&MRC
Residential/ Domestic	1m ² per 347m ² UFS
Hotel	1m ² per 347m ² UFS
Retail/ Commercial/ Clubhouse	For UFS <39,600m ² , 2m ² per 925m ² UFS For UFS ≥39,600m ² , 1m ² per 925m ² UFS + 43m ²
Non-residential/ Non-domestic space usage other than Retail/ Commercial/ Clubhouse	1m ² per 925m ² UFS
Remarks: <ul style="list-style-type: none"> • UFS = Usable Floor Space • The provision of Refuse Storage & Material Recovery Chamber (RS&MRC) is required under “Schedule” in B(RS&MRC&RC)R. • RS&MRR shall not be included in the RS&MRC space requirement calculation. Additional areas of waste and recycling facilities provided in addition to the statutorily required RS&MRR can be counted. 	

2. Refuse Storage and Material Recovery Room (RS&MRR) Provision

i. The provision of refuse storage and material recovery room (RS&MRR) on every floor of a domestic building or the domestic part of a composite building is required under Reg.3A in B(RS&MRC&RC)R.

ii. For a domestic building or composite building on a site of an area of not more than 250m² (i.e. ≤ 250m²), the provision of a RS&MRR on every domestic floor shall be exempted.

iii. For domestic building or composite building on a site of an area >250m² and ≤500m², please refer to item 3 below.

3. Except for the building types mentioned in the Extent of Application of this prerequisite, the provision of RS&MRC and/ or RS&MRR could be exempted for buildings under any of the following conditions and an alternative proposal on the provision of waste recycling facilities should be provided:

i. RS&MRC:

- Domestic building or composite building with a total usable floor space less than 1,320m²; or
- Non-domestic building with a total usable floor space less than 3,960m²; or

- Other building not required to provide RS&MRC by Building Regulations.

ii. RS&MRR:

- Domestic building or composite building on a site of an area >250m² and ≤500m²; or
- Domestic building or composite building not required to provide RS&MRR by Building Regulations.

Details on the estimated waste streams and quantities from the building to justify its location and the adequate size of such provision shall be submitted. Management plan, accessibility, hygiene and fire protection factors shall also be taken into consideration. All submissions regarding the alternative proposal of the waste recycling facilities shall also demonstrate compliance with the requirements as indicated below:

- a. General waste bins and recycling bins shall be provided;
 - b. Observe relevant government regulations such as fire and hygiene regulations; and
 - c. Observe the size and location of the provided waste and recycling bins shall not obstruct any means of escape.
4. For cluster of low-rise domestic houses where the RS&MRC is located at a walking distance of longer than 60m from the farthest house, intermediate waste recycling facility (IWF) shall be provided within 60m walking distance from each house unit. General waste bins and recycling bins should be provided at the IWF, which should be weatherproof with sufficient size, placed at a safe location and comply with relevant government regulations.
 5. Mechanical ventilation and air purifying facilities for every RS&MRC is statutorily-required under Reg.12A of B(RS&MRC&RC)R. In addition, odour control measure shall be considered at MRR in accordance with PNAP APP-35. Correspondent assessment is under HWB 5.

(c) Minimum Types of Recyclables to be Collected

1. Metal
2. Plastics
3. Paper/ Cardboard, and
4. Glass

Submittals

Supporting Documents <i>Please provide softcopies with filename prefix as indicated on the leftmost column below.</i>		PA	FA
MW_P1_00	BEAM Plus NB submission template for MW P1	✓	✓
MW_P1_01	Recycle & Waste Management Strategy Plan	✓	✓
MW_P1_02	Drawings showing the locations of the waste handling facilities	✓	✓
MW_P1_03	Calculation showing the adequacy of the space requirement for the waste handling facilities	✓	✓
MW_P1_04	Alternative proposal on the provision of waste recycling facilities (if applicable)	✓	✓
MW_P1_05	Master layout plan or extract of relevant page(s) from the GBP to substantiate the exemption from the requirements of this prerequisite	✓	✓
MW_P1_06	Purchase orders or undertaking letter from the project owner to substantiate the provision of general refuse bins and recycling bins	-	✓

Remarks**(a) Additional Information**

Buildings Department. Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineer. PNAP No. APP-35 on requirements for Refuse Storage and Material Recovery Chambers, Material Recovery Chambers.

Environmental Protection Department. Waste Data & Statistics. [ONLINE]. Available at: http://www.wastereduction.gov.hk/en/assistancewizard/waste_red_sat.htm. [Accessed April 2021].

(b) Related Credits

MW 12 Enhanced Waste Handling Facilities

This credit encourages enhanced provisions for recyclables collection, recycling facilities and waste treatment equipment.

HWB 5 Waste Odour Control

This credit addresses the hygiene aspects of waste disposal.