



Circular Letter No.: 2018.143

Issue Date: 8 January 2018

Application: BEAM Plus NB Version 1.1 & 1.2  
BEAM Plus EB Version 1.1 & 1.2

Effective Date: 8 January 2018

**EU 4 (NB) Ventilation Systems in Car Parks**  
**EU 3 (EB) Ventilated Systems in Car Parks**

The Circular Letter announces the following requirements on ventilation system in carpark:-

1. The exclusion of the captioned credit has been revised as follows:

- a. Building without carpark;
- b. Carpark area less than 10% CFA;
- c. Developments with open-air carpark;
- d. Carport<sup>1</sup>; and
- e. Carpark adopting full natural ventilation.

For developments with carport and carpark adopting full natural ventilation, the Applicant shall also provide evidences (e.g. CFD simulation, pollutant calculation, etc) to demonstrate that CO and other relevant pollutant concentrations meets the requirements set out in ProPECC PN2/96 to qualify for the exclusion.

2. Baseline (zero credit) performance criteria for mechanical ventilation systems is further clarified as below:

- i. Exhaust air flow rate or fresh air flow rate (whichever the larger) should be used to calculate for the energy consumption for carpark ventilation in the baseline performance criteria.
- ii. Jet fans flow rate shall be excluded for the baseline performance criteria since this is for circulation purpose.

3. Energy saving features for Public Transport Interchanges (PTI): The provisions of air pollutant sensors coupled with multi-speed ventilation fans<sup>2</sup> can be classified as an energy saving feature for PTI under this credit and its interrelated credits. To qualify for energy saving, the Applicant should provide evidences (e.g. CFD simulation, pollutant calculation, etc.) to demonstrate that these provisions meet the requirement set out in ProPECC PN 1/98<sup>3</sup>.

---

Mr KM So  
Chairperson of Standards Sub-committee

---

<sup>1</sup> Carport is defined as a roofed structure for automobile storage, with the structure generally having one or more sides fully open to outdoor to facilitate natural ventilation.

<sup>2</sup> Multi-speed ventilation fans include fans with variable speed drive (VSD), fans with stage configuration, etc.

<sup>3</sup> ProPECC PN1/98 is the Professional Persons Environmental Consultative Committee Practice Notes (ProPECCPNs) on the control of air pollution in semi-confined public transport interchange published by the Environmental Protection Department.