Code for Environmental Sustainability of Buildings

Addendum No. 1

Effective from 1 September 2014

Applicable to 3rd Edition

This Addendum shall be read in conjunction with the Code for Environmental Sustainability of Buildings and shall form part of the Code.

Amendments to the Code

(1) Purpose of amendments

The purpose of the amendments is to allow alternative scoring methodology for meeting the criteria under 'RB 1-2 Naturally Ventilated Design and Air-Conditioning System'.

(a) Item 1-2(a) Option 2(ii) under the 'RB 1-2 Naturally Ventilated Design and Air-Conditioning System in Table 4.1.6(a) on Page 9 of the Code shall be replaced as provided below. Changes are highlighted in blue.

Part 1 – Energy Efficiency	Green Mark Points	
RB 1-2 Naturally Ventilated Design and Air- Conditioning System		
Option 2 – Ventilation Design (without the use of simulation modeling) and Efficient Use of Air-Conditioning System(a) Dwelling Unit Indoor ComfortEnhance dwelling unit indoor comfort through the provision of good natural ventilation design and energy 	Extent of Coverage : At least 80% of the air-conditioners used in all dwelling units Air-conditioners labelled with : Three Ticks – 4 points Four Ticks – 8 points OR	
(ii) Provision of air-conditioning system Use of energy efficient air-conditioners that meet the	Coefficient of Performance (COP) range	Point Allocation
prescribed energy performance standards. Note (1) : Option 2(ii) is not applicable for developments where air-conditioners are not provided. Points will be scored	COP _{100%} ≥ 3.06 & 3.76 > Weighted COP ≥ 3.34	4
and prorated accordingly under Option 2(i)	$COP_{100\%} \ge 3.34 \&$ Weighted COP ≥ 3.76	8

Table 4.1.6(a) : Residential Building Criteria

(b) Item 1-2(a) Option 2 (ii) under the 'RB 1-2 Naturally Ventilated Design and Air-Conditioning System' on Page 57 of the Code shall be replaced as provided below. Changes are highlighted in blue.

RB 1-2 NATURALLY VENTILATED DESIGN AND AIR-CONDITIONING SYSTEM

Requirements	<u>1-2 (a) Dwelling Unit Indoor Comfort</u> Extent of coverage : At least 80% of air-conditioners used in all dwelling units. Option 2(ii) Provision of energy efficient air-conditioning system				
	Up to 8 points can be scored for the use of the air-conditioners that are certified under the Singapore Energy Labelling Scheme based on the following rating.				
		Energy Efficiency Rating	Point Allocation		
		$\checkmark\checkmark\checkmark$	4		
		$\checkmark\checkmark\checkmark\checkmark$	8		
			-]	
	OR				
	Up to 8 points can be scored for the provision of air-conditioning system with Coefficient of Performance (COP) that meet the prescribed energy performance standards stated in the following Table 1-2.				
	Table 1-2 – Prescribed Energy Performance Standards for Air-Conditioning System				
	С	oefficient of Performance (COI	P) range	Point Allocation	
		COP _{100%} ≥ 3.06 &		4	
		$3.76 > Weighted COP \ge 3.3$			
		$COP_{100\%} \ge 3.34 \&$ Weighted COP ≥ 3.76		8	
	Notes :				
	expre	cient of Performance or COP r ssed in Watts to the total effect ied in the test report.			
		nted COP refers to the sum of 0. at part-load cooling capacity i.e. \			
		is not applicable for dev Points can be scored and pro			

(c) Documentary evidence requirements for Item 1-2(a) Option 2(ii) under the 'RB 1-2 Naturally Ventilated Design and Air-Conditioning System' on Page 57 of the Code shall be replaced as provided below. Changes are highlighted in blue.

Documentary Evidences	 For 1-2(a) Option 2(ii) – Provision of Air-Conditioning Systems Extracts of the tender specification showing the types of air-conditioners provided for all dwelling units of the development;
	 Technical product information and schedule of air-conditioners showing the numbers, types and approved tick-rating as registered; and
	• Testing report endorsed by the testing laboratory showing the results of tests carried out in accordance with applicable test standards as prescribed in the Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulation.