

3	MATERIALS ASPECTS	3.1	EFFICIENT USE OF MATERIALS	
		MA 2	MODULAR AND STANDARDISED DESIGN	
	EXCLUSIONS	None.		
	OBJECTIVE	Encourage increased use of modular and standardised components in building design in order to enhance buildability and to reduce waste.		
	PREREQUISITES	Compliance with the Building (Construction) Regulations.		
	CREDITS ATTAINABLE	1		
	CREDIT REQUIREMENT	1 credit for demonstrating the application of modular and standardised design.		
	ASSESSMENT	<p>The Client shall submit a report, including detailed drawings and specifications, that demonstrates and highlights the extent of application of modular design of building systems and components. Where it can be demonstrated that the building development incorporates modular and standardised layouts and components for over 50% of the major elements and modules, the credit shall be awarded.</p> <p>For the purposes of assessment, the extent of modular and standardised design shall make reference to the checklist provided herein. Additional or alternative examples may be submitted at the discretion of the Client.</p>		
	CHECKLIST	<p>Structural elements</p> <p>Facade elements</p> <p>Architectural/Internal building elements</p> <p>Building services elements</p>	<p>Structural beams system</p> <p>Concrete slab</p> <p>Concrete flooring</p> <p>External wall</p> <p>Bay-window unit</p> <p>Cladding unit</p> <p>Utility platform</p> <p>Internal partition/wall panels</p> <p>Door sets</p> <p>Staircases</p> <p>Fire services</p> <p>Sanitary fittings</p> <p>Luminaires</p> <p>Air-Conditioning components</p>	<p>1</p> <p>2</p> <p>3</p>
	BACKGROUND	<p>This refers to the use of standardised grid systems of design allowing standard size factory built and assembled components to be used. Standardisation of details goes hand in hand with optimisation of material quantity. It also generally has benefits for both quality and environmental cost. It simplifies the design and site operations. Building components produced in standard ranges of sizes can also be interchanged. Materials should be dimensioned carefully to use standard-sized</p>		



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MA 1, 2, 3, 5, 6, 7 & 9, For BEAM Plus New Buildings Version 1.1 and 1.2/ MW 1, 2, 3, 5, 6, 7b, 8 & 9, For BEAM Plus New Buildings Version 2.0, which personnel from the contractor is/are qualified for endorsement of the calculation/ summary/ worksheet of building elements/ materials?

VALID | Issue Date: 21 Jun 2024

The following personnel from the contractor are qualified for endorsement of the calculation/ summary/ worksheet of building elements/ materials:

1. The contractor's quantity surveyor who possesses the following qualification:
• a Corporate Member of The Hong Kong Institute of Surveyors (HKIS) in QS Discipline; or
• a Chartered Member of Royal Institution of Chartered Surveyors (RICS) in QS Discipline; or
• a Corporate / Certified / Full Member of other International Institute of Surveyors in QS Discipline; or

2. The contractor's project manager who supervises the Project QS, monitors the use of materials, and possesses the following qualification or experience:
• a Corporate Member of Hong Kong Institute of Construction Managers (HKICM); or
• a Chartered Member of Chartered Institute of Building (CIOB); or
• a Corporate / Certified / Full Member of other International Institute of Construction Managers; or
• at least 10 years of construction-related experience.

CV of the personnel and organisation chart highlighting the personnel shall be submitted to demonstrate the personnel has fulfilled the above-mentioned requirements.