

3	<b>MATERIALS ASPECTS</b>	<b>3.1 EFFICIENT USE OF MATERIALS</b>	1
		<b>MA 1 BUILDING REUSE</b>	
	<b>EXCLUSIONS</b>	Buildings on reclaimed land or greenfield sites.	
	<b>OBJECTIVE</b>	Encourage the reuse of major elements of existing buildings, to reduce demolition waste, conserve resources and reduce environmental impacts during construction.	
	<b>CREDITS ATTAINABLE</b>	2 + 1 BONUS	
	<b>PREREQUISITES</b>	The reuse of major elements from an existing building structure or shell shall comply with Building (Construction) Regulations Chapter 123B Regulation 90 Fire resisting construction and other relevant Building regulations.	2
	<b>CREDIT REQUIREMENT</b>	1 credit for the reuse of 30% or more of existing sub-structure or shell. 2 credits for the reuse of 60% or more of existing sub-structure or shell. 1 additional BONUS credit for use of 90% or more of existing sub-structure or shell.	
	<b>ASSESSMENT</b>	The Client shall provide a report prepared by a suitably qualified person outlining the extent to which major building elements from an existing building were used in the building. The report shall include pre-construction and post-construction details highlighting and quantifying the reused elements, be it foundations, structural elements or facades, but windows, doors and similar assemblies may be excluded.  The percentage of building elements shall be calculated as the amount (volume or weight) of building elements reused as a percentage of the total amount (volume or weight) of that building elements in the new development.  When it can be demonstrated that the target percentage of original building elements are reused, the credit(s) shall be awarded.	
	<b>BACKGROUND</b>	With greater flexibility in planning, approvals opportunities exist to rehabilitate existing buildings. The rehabilitation of old industrial buildings is as an example of successful commercial redevelopment in many cities around the world. There is a potential to lower building costs and provide a mix of desirable building characteristics. However, the reuse of existing structural elements depends on many factors, not least fire safety, energy efficiency, and regulatory requirements, all of which need to be critically reviewed to determine the advantages and feasibility of reuse as opposed to demolition.	



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BEAM Plus NB/EB Version 1.2

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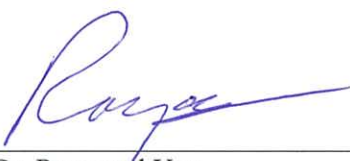
### **MA 1 Building Reuse**

This circular letter provides elaboration for the assessment of the captioned credit as follows:

The Applicant shall submit a report with calculations, pre and post construction details, drawings, and supporting documentation to demonstrate that the quantity (by mass or volume) of the retained and reused portions of major building elements from the existing building sub-structure and superstructure, as a percentage of the quantity (by mass or volume) of the major building elements in the new building sub-structure and superstructure. Where the prescribed percentage is achieved credit can be awarded.

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Signed :   
Dr. Raymond Yau  
Chairperson of Technical Review Committee