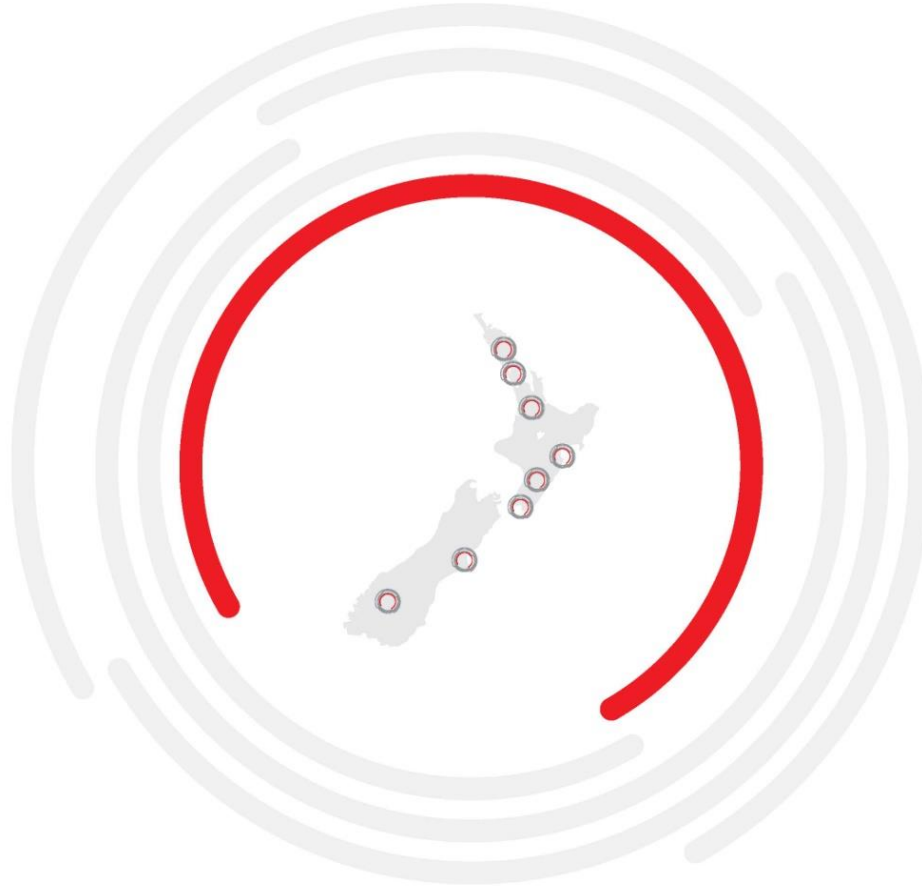






PMA | Who are we?



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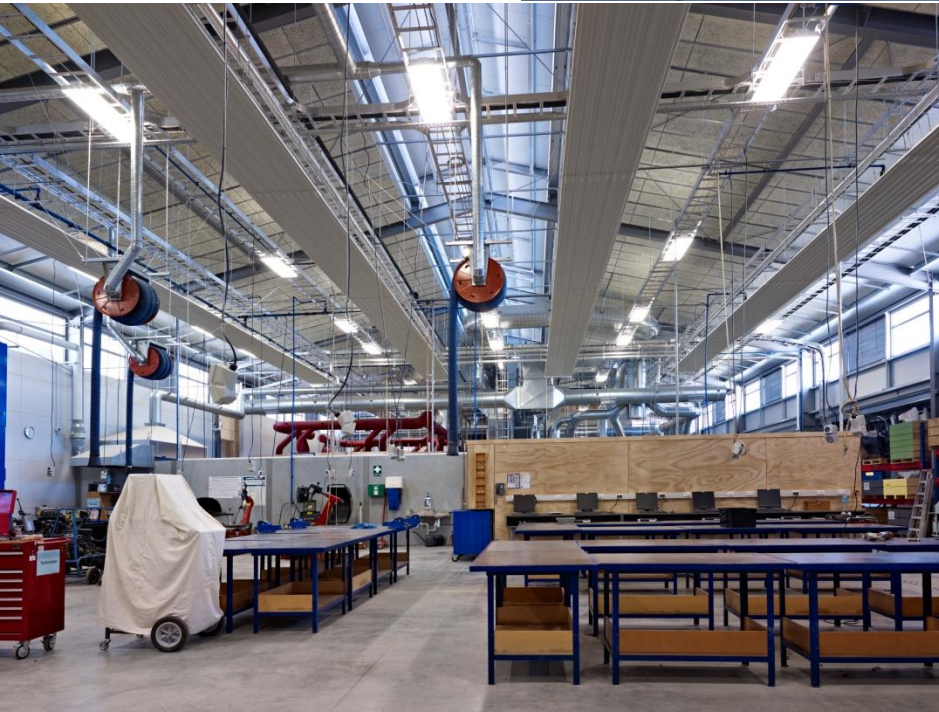


SUSTAINABILITY

EIT Trades Workshop

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## SUSTAINABILITY



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## Sustainable Construction and Design



**URBAN DESIGN PROTOCOL**

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## MAT-2 Building Reuse

<b>Aim:</b>	<b>Points:</b>	<b>6</b>
To encourage and recognize the use and reuse of existing buildings to minimize materials consumption.	<b>Related Credits:</b>	<b>N/A</b>
	<b>Assessable area:</b>	<b>GFA</b>

### Credit Criteria

Up to six points are available as follows:

Up to three points are awarded where a proportion of the total façade and roof of the building, by area, is retained:

- One point if 30% meets the criteria
- Two points if 60% meets the criteria and
- Three points if 90% meets the criteria.

AND

Up to three points are awarded where a proportion of the existing major structure, by gross building volume, is retained:

- One point if 30% meets the criteria
- Two points if 60% meets the criteria and
- Three points if 90% meets the criteria.

For New Buildings, where:

- The site contained no buildings at the time of purchase OR
- The total assessable area of the original building(s) is less than 20% of the assessable area of the new building that replaces it.

This credit is 'Not Applicable' and is excluded from the points available used to calculate the Materials Category Score. In this case, type "NA" in the 'No. of Points Achieved' column. Please refer to the Existing Building Guidance in the Introduction for the definition of New Building.

### Compliance Requirements

Refurbishment projects are likely to achieve this credit without difficulty unless the building is entirely re-clad. New buildings with retained façades provide another means of achieving the credit. However it should be noted that refurbished façades sometimes require extensive renovation/reinforcement.

Please note the following

- The reused structure is to comprise at least 20% of the final building by volume.
- Volume is calculated inside the external surfaces of the building.
- Existing material which is retained may be covered or refurbished and still meet the Credit Criteria.
- The total area of all building(s) that are to be demolished for the development is to be calculated. This is applicable even where the building(s) extend beyond the site boundary.
- If the development comprises both a refurbishment and a new addition, the Credit Criteria relates to the refurbishment only.
- The calculation of the façade excludes externally affixed elements (e.g. fixed shading devices).
- The definition of major structure is floors, columns, beams, and load-bearing walls, and foundations where required for structural use by the new building.
- This Credit uses gross building volume to calculate the points allocation as material volume is difficult to calculate. If the structure undergoes significant strengthening or alteration (more than 50% by mass), it is not eligible for inclusion within the calculations for this Credit.

## MAN-5 Waste Management

<b>Aim:</b>	<b>Points:</b>	<b>3</b>
To encourage and recognise management practices that minimise the amount of construction and demolition waste going to disposal.	<b>Related Credits:</b>	<b>N/A</b>
	<b>Assessable area:</b>	<b>N/A</b>

### Credit Criteria

Up to three points are awarded where it is demonstrated that the contractor will provide and implement a comprehensive waste management plan AND contract provisions require the contractor to re-use and/or recycle construction and demolition waste as follows:

- One point where  $\geq 30\%$  of waste by weight is re-used or recycled
- Two points where  $\geq 50\%$  of waste by weight is re-used or recycled
- Three points where  $\geq 70\%$  of waste by weight is re-used or recycled.

Records must be kept by the contractor to demonstrate the actual percentage of waste recycled by weight and these must be reported to the client quarterly.

For Existing Buildings where there is no Current Refurbishment, or if the Current Refurbishment has a contract value under \$50,000, the credit is 'Not Applicable' and is excluded from the points available used to calculate the Management Category Score. In this case, type "NA" in the 'No. of Points Achieved' column. Please refer to the Existing Building Guidance in the Introduction for the definition of Existing Building and Current Refurbishment.

### Compliance Requirements

Also refer to Additional Guidance.

#### Base Building/Tenancy Requirements

This rating tool certifies the improved environmental impact of office base buildings, irrespective of the impact of the building's tenancy fitouts. For guidance on applying this to individual credits under a range of different delivery models (e.g. integrated fitout, shell & core, etc) please refer to the Technical Guidance section of the Introduction on page 10 of this Technical Manual.

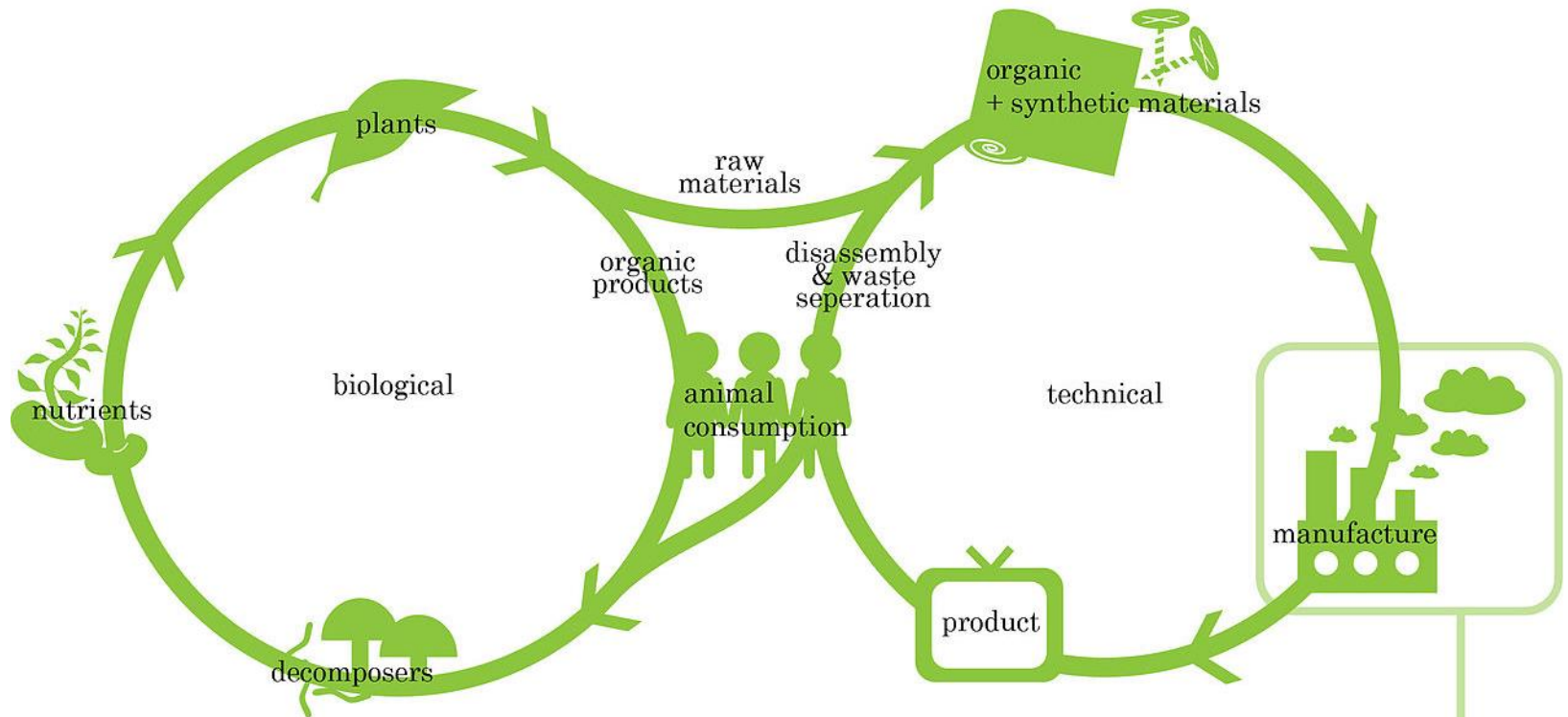
This credit refers to the re-use and/or recycling of construction and demolition waste relating to the base building as defined in the Introduction.

### Submission Checklist: Design Phase

The following documentation is required to demonstrate compliance		
Where the principal building contract has been awarded		
<input type="checkbox"/>	Extract(s) from the contract(s)	Between the contractor and either the developer or the building owner stipulating in the body of the contract the full criteria for reuse/recycling of the stated proportion of construction and demolition waste; the exact provisions of the Credit Criteria must be found in the body (rather than Appendices) of the document (Refer to Additional Guidance).
Where the principal building contract has not yet been awarded		
<input type="checkbox"/>	Extract(s) from tender documentation	Extract(s) from the tender documentation requiring the recycling of the stated proportion of construction and demolition waste by the contractor and sub-contractors; the exact provisions of the Credit Criteria must be found in the body (rather than Appendices) of the document.

### Submission Checklist: Built Phase

The following documentation is required to demonstrate compliance



## CONSTRUCTION WASTE

20-30% of all landfill

80% of all clean fill

1 100% Renewable Energy Use

2 Water Stewardship clean water output

3 Social Responsibility positive impact on community

4 Material Reutilization recyclability / compostability

5 Material Health impact on human & environmental

5  
criteria

**Closed Loop Design**

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Adaptive Reuse

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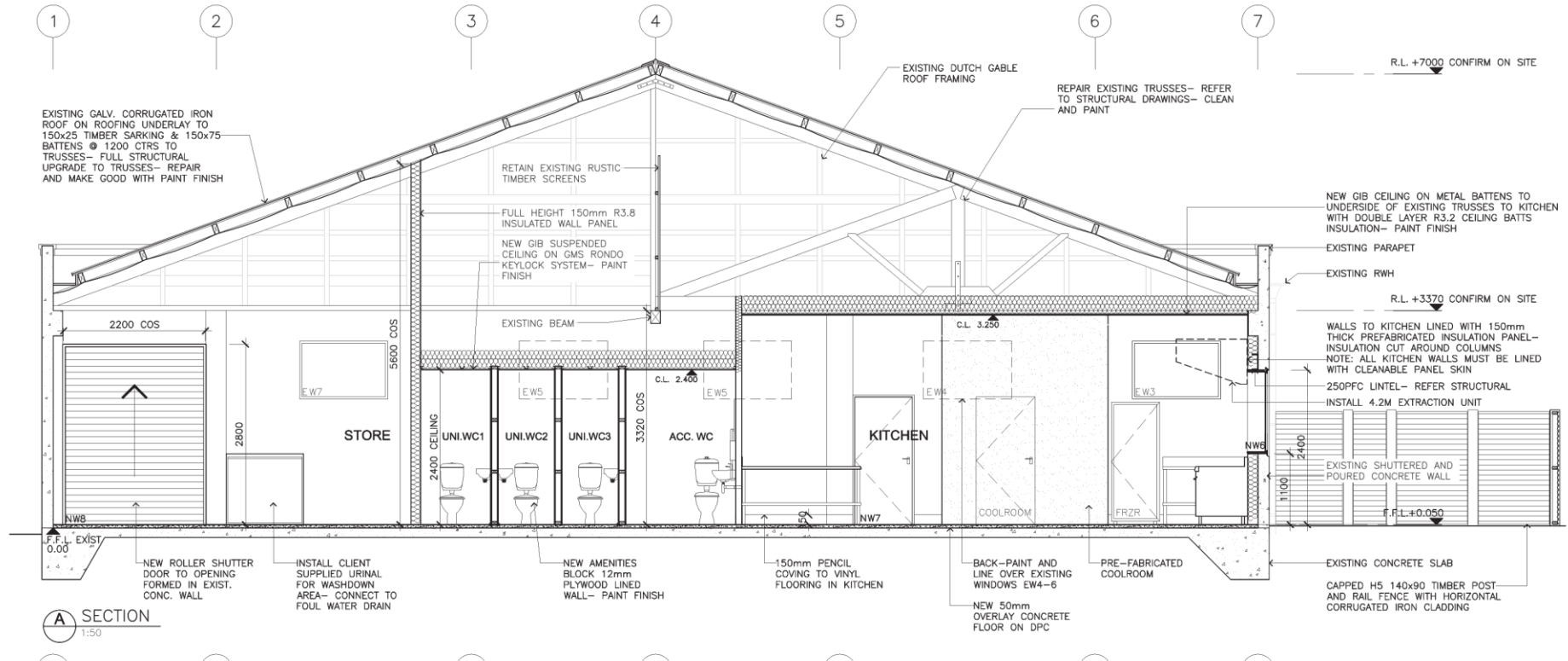


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THANK YOU

