# Green Star Short Report Round [1/2]

Ensure all prompts shown in Blue text have been responded to.

Green Star – Office Design v3

Credit: Mat-10 Dematerialisation

Project Name: [name]

Project Number: GS- [####]

Points available: 1 Points claimed: [1]

1. Credit Compliance

*Instructions for using this template:*

There are two main pathways for demonstrating compliance with this credit:

* A substantial reduction in materials through a reduction in the use of structural steel (Section 1.1);
* Material reduction by achieving two of the bulleted initiatives listed in the Credit Criteria (Section 1.2).



The template includes both pathways and includes all of the bulleted initiatives. Please delete portions of the text that will not be pursued by the project.

* 1. Dematerialisation in Steel

### Structure

At least 50% of the GFA is framed in structural steel which has achieved its structural requirements using at least 20% (by mass) less steel than conventional steel. This reduction in steel has not changed the load path to other structural components.

[Outline the methodology for establishing the Reference Case]

A summary of the dematerialisation achieved through efficiencies in the structural steel is summarised below.

Table Summary Table: Structural Steel

|  |  |
| --- | --- |
| Reference case steel (by mass) |  |
| Project steel (by mass) |  |
| Percentage reduction |  |

[Please insert hyperlinks to documents which support these claims]

Therefore, as demonstrated in section 1.1 this project is eligible to achieve [1] point for reducing the total amount of material used in the building.

* 1. Other initiatives

The project can demonstrate dematerialisation by the following **two** initiatives:

### 1.2.1 Structure

At least 50% of the GFA is framed in structural steel which has achieved its structural requirements using at least 10% (by mass) less steel than conventional steel. This reduction in steel has not changed the load path to other structural components.

[Outline the methodology for establishing the Reference Case]

A summary of the dematerialisation achieved through efficiencies in the structural steel is summarised below.

Table Summary Table: Structural Steel

|  |  |
| --- | --- |
| Reference case steel (by mass) |  |
| Project steel (by mass) |  |
| Percentage reduction |  |

### 1.2.2 Ductwork

The project has achieved dematerialisation of ductwork by: [The building being fully naturally ventilated OR reducing the requirement for ductwork by at least 95%.]

[Outline the methodology for establishing the Reference Case]

[Describe how dematerialisation of ductwork has been achieved]

A summary of the dematerialisation achieved through efficiencies in ductwork is summarised below.

Table Summary Table: Ductwork

|  |  |
| --- | --- |
| Reference case ductwork |  |
| Project ductwork |  |
| Percentage reduction |  |

### 1.2.3 Building Efficiency

The project has achieved dematerialisation through building efficiency as demonstrated by the total NLA being at least 85% of the GFA.

Table Summary Table: Building Efficiency

|  |  |
| --- | --- |
| Total project NLA |  |
| Total project GFA |  |
| Percentage efficiency |  |

### 1.2.4 Finishes

*This option is not available to Shell and Core projects.*

The project has achieved dematerialisation by: [95% of all base building floor material is exposed structure with no covering]

Table Summary Table: Finishes (Flooring)

|  |  |
| --- | --- |
| Total base floor area |  |
| Total exposed base floor area |  |
| Percentage of exposed floor |  |

[OR95% of all base building ceiling being exposed structure with no cladding]

Table Summary Table: Finishes (Structure)

|  |  |
| --- | --- |
| Total base ceiling area |  |
| Total exposed base ceiling area |  |
| Percentage of exposed ceiling |  |

### 1.2.4 Cladding

The project has achieved dematerialisation by: [25% of roof cladding area having a dual function]

[Describe the dual function strategy being used for the roof]

[OR25% of facade cladding area having a dual function]

[Describe the dual function strategy being used for the facade]

### 1.2.5 Piping

The project has achieved dematerialisation by: [having no piping used for the urinals OR having no piping used for the toilets OR reducing the mass of underground piping for the same functional requirement and material by at least 25%]

[Where a reduction in piping has been achieved by reducing the mass of underground piping, outline the methodology for establishing the Reference Case]

[Where a reduction in piping has been achieved by reducing the mass of underground piping, describe how this has been achieved]

A summary of the dematerialisation achieved through efficiencies in piping is summarised below.

Table Summary Table: Piping (Reduction in underground piping)

|  |  |
| --- | --- |
| Reference case piping (by mass) |  |
| Project piping (by mass) |  |
| Percentage reduction |  |

[Please insert hyperlinks to documents which support this claim]

Therefore, as demonstrated in section 1.2 this project is eligible to achieve [1] point for reducing the total amount of material used in the building.

## Discussion

[Insert any issues you would like to highlight and clarify to the Assessment Panel.]

Author Details:

[Insert name, position and contact details of author]

[Date]

––– **Report end** –––