

# Green Star Design & AS Built Submission Template

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

## Design Review / As Built Submission [Delete as appropriate]

### Credit: Steel Sourcing and Use

Project Name: [name]

Project Number: GS- [####]

Points available: 2

Points claimed: [xx]

### Steel Sourcing and Use

The project has reduced the use of resources associated with the use of steel in building and employed responsible sourcing and supply chain initiatives.

The main use of steel in the building is [structural steel framing / steel reinforcement]

[Insert hyperlink to documents that demonstrate the main use of structure steel]

Where structural steel framing comprises 60% or more of the total steel in the building, project shall target criteria 1 and 2. Where reinforcing steel comprises 60% or more of the total steel in the building, projects shall target criteria 3 and 4

Credit Criteria	Description	Points available	Points claimed
<b>0 Responsible Steel Maker</b>	95% of the buildings steel is sourced from a Responsible Steel Maker	<b>Mandatory</b>	<input type="checkbox"/>
<b>1 Responsible Steel Fabricator</b>	At least 60% of the fabricated structural steelwork is supplied by a steel fabricator/steel contractor accredited to the Environmental Sustainability Charter of the Australian Steel Institute	<b>1</b>	<input type="checkbox"/>
<b>2 Reduced Mass of Steel Framing</b>	5% reduction in the mass of steel framing used in the building when compared to standard practice.	<b>1</b>	<input type="checkbox"/>
<b>3 Energy Reduced Manufacture</b>	At least 60% of all reinforcing bar and mesh is produced using energy-reducing processed in its manufacture (measured by average mass by steel maker annually)	<b>1</b>	<input type="checkbox"/>
<b>4 Reduced Mass of Steel Reinforcement</b>	5% reduction in the mass of steel reinforcement used in the building when compared to standard practice.	<b>1</b>	<input type="checkbox"/>

## 0. Responsible Steel Maker

At least 95% of the building's steel is sourced from a steel maker with a valid ISO 14001

Product	Steel Maker	Valid ISO 14001 Certification	Mass of Steel Supplied (tonne)
Reinforcement	OneSteel	[yes/no]	[20000 tonnes]
[insert rows as needed]			
Total			
Percentages			

Total Mass of Steel supplied to project:

Percent sources from a responsible steel maker:

[Insert hyperlinks to documents which support these claims]

## 1. Responsible Steel Fabricator

At least 60% of the fabricated structural steel is supplied by a steel fabricator/ steel contractor that is accredited under the Environmental Sustainability Charter of the Australian Steel Institute (ASI) (that is, is ISO 14001 accredited and/ or a member of the World Steel Association (WSA) Climate Action Program (CAP)). Table 3 provides a list of the compliant fabricators.

### Fabricator/Contractor accredited to the ASI ECS

Product	Non-ASI Fabrication (tonnes)	ASI-ESC Fabrication (tonnes)
E.g. Fabricator 1		
[insert rows as needed]		
Total		
Percentages	X%	X%

Therefore as demonstrated in section 1, this project is eligible to achieve [1 ] point for using a responsible steel fabricator.

## 2. Reduced Mass of Structural Steel Framing

This criterion is being met by compliance method [\[2.1- High Strength Steel / 2.2 Reduced Mass of Structural Steel Framing\]](#)

### 2.1 High Strength Steel

95% of category A products and 25% of category B products meet the strength grades specified in table 1 and 2. All calculations are based on mass.

Type of steel	Steel Strength	Quantity (mass)	Steel Strength met? Y/N
<b>Category A Products</b>			
Roof sheeting	550MPa		
Wall sheeting	550MPa		
Profiled steel decking	550MPa		
Purlins	450MPa		
Girts	450MPa		
Light-steel framing systems*	450MPa		
<b>Sub-total Category A steel</b>			<b>[x] tonnes</b>
<i>% of compliant steel</i>			<b>[x]%</b>
<b>Category B Products</b>			
Hot rolled structural steels (including plate)	350MPa		
Cold formed sections (including hollow sections)	450MPa		
Welded sections	400MPa		
<b>Sub-total of Category B steel</b>			<b>[x] tonnes</b>
<i>% of compliant steel</i>			<b>[x]%</b>
<b>Total quantity of structural steel specified for the project</b>			<b>[x] tonnes</b>
<b>Total % of compliance steel</b>			<b>[x]%</b>

[\[Insert hyperlinks to documents which support this claim\]](#)

## 2.1 Reduced Mass of Structural Steel Framing

The mass of structural steel in the building has been reduced by [x] %.

[Description of the initiatives that have been used to reduced the amount of structural steel framing]

[Insert hyperlinks to calculations that verify the % reduction and documents which support this claim]

Therefore as demonstrated in section 2, this project is eligible to achieve [1 ] point for reducing the mass of steel framing

## 3. Energy Reduced Manufacture

60% of all reinforcing bar and mesh has been produced using energy reduced processes, where the energy reduction is at least 40MJ/tonne.

[describe the energy reducing processes used to produce the steel]

Use of Energy Reducing Technologies (ERT) in steel manufacture

Product	Reinforcing steel (Tonnes)	Manufacturer's annual average production using ERT (%)	Average mass of ERT steel
E.g. reinforcing bar supplier 1	205	73%	150
Supplier 2	40	73	28
Supplier 3	10	0	0
<b>Total</b>	<b>255</b>		<b>178</b>
<b>Percentages (178/255)</b>			<b>69%</b>

Therefore as demonstrated in section 3, this project is eligible to achieve [1 ] point for reducing reinforcing steel manufacturing energy use

## 4. Reduced mass of reinforcing steel

The mass of reinforcing steel in the building has been reduced by [x] %.

[Description of the initiatives that have been used to reduced the amount of reinforcing steel]

[Insert hyperlinks to calculations that verify the % reduction and documents which support this claim]

Therefore as demonstrated in section 4, this project is eligible to achieve [1 ] point for reducing the mass of reinforcing steel

## 5. Credit not Applicable

The cost of steel represents less than 1% of the project's total contract value

There are no new structural or reinforcing steel used in the project.

Therefore as demonstrated in section 5, this credit is not applicable for this project

[delete as appropriate]

[Insert hyperlinks to documents which support this claim]

### 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 ——