

1st October 2010

To whom it may concern

GREEN STAR STEEL CREDIT POINTS– 29th APRIL 2010 REVISION

ONESTEEL REINFORCING CAN MEET THESE REQUIREMENTS FOR YOUR PROJECT

Dear Sir/Madam,

With reference to your enquiry regarding the above, we are pleased to advise the following information from OneSteel Reinforcing to support your project gaining the revised the Green Building Council of Australia (GBCA) Green Star Steel credits effective 29th April 2010. **Please note that there are no longer 2 points for recycled content of reinforcing steel.**

To be eligible to have up to two points awarded the following base criteria must be in place:

- *At least 95% by mass of structural steel and reinforcing steel used in the building is sourced from Steel making facilities that have a currently valid ISO 14001 Environmental Management System (EMS)*
- **We confirm that OneSteel has a currently valid 14001 EMS – certificate can be provided**

- *Steel is sourced from steel makers who are members of the World Steel Association's Climate Action Programme*
- **We confirm OneSteel is a WSA CAP member – certificate can be provided**

- **In addition, for up to two points to be awarded, one or more of the following initiatives must also meet specific criteria for reinforcing steel.** (Reinforcing steel includes all reinforcing bar and mesh used in concrete reinforcement in the building structure. This applies to in situ and pre-cast concrete. Post tensioning tendons are not considered reinforcing bar). The reinforcing steel criteria are as follows:

- *Where reinforcing steel comprises at least 60% (by mass) of all the reinforcing steel and structural steel used in the project, one point is awarded for each of the following criteria:*
 - *At least 60% is produced using **energy-reducing processes** in its manufacture (measured by average mass by steel maker annually)*
 - **We confirm that OneSteel meets this requirement through Polymer Injection Technology – PIT letter can be provided**

 - *95% of all reinforcing steel meets or exceeds 500MPa strength grade,*
 - **We confirm by this letter that 95% of OneSteel Reinforcing rebar & reomesh meets or exceeds 500MPa**

 - *15% (by mass) of all reinforcing steel is produced using **off site optimal fabrication techniques***
 - **We confirm (by this letter that OneSteel Reinforcing can meet the above requirements for specific projects – please ask your local OneSteel Reinforcing sales office to provide you with a quotation for the products and services we can offer to achieve this. These include**

- *Offsite optimal fabrication of reinforcing steel used in the building structure includes any combination of the design-driven fabrication techniques detailed below which optimise laps in mesh and spacing between bars, thereby reducing material and wastage associated with reinforcing steel fabrication.*

- *The GBCA has defined Approved Optimisation Techniques as follows:*
 - **Engineered Reinforcing Bar Carpet** - Reinforcing bars fabricated offsite for rolling out on site
 - **OneSteel Reinforcing's 500PLUS® BAMTEC® Engineered Reinforcing Bar Carpet** - Reinforcing bars fabricated offsite for rolling out on site – variable diameters and spacings can be quoted to optimise the steel content, facilitate finite element analysis, and ensure less waste in steel fixing time and materials

- **Engineered/Customised Mesh** - Run-to-length meshes, tailored meshes, high ductility meshes, special size meshes, engineered meshes, variable diameter and spacing meshes
- **OneSteel Reinforcing's ONEMESH® standard, engineered and customised meshes** - Run-to-length meshes, tailored meshes, high ductility meshes, special size meshes, engineered meshes, variable diameter and spacing meshes can be quoted
- **Prefabricated reinforcing cages** for concrete elements such as slabs, walls, cores, columns, piles (Note that Offsite cutting and bending of bars to be hand-laid onsite is not considered an optimal fabrication technique for the purpose of this credit)
- **OneSteel Reinforcing 500PLUS® PREFAB** - Prefabricated reinforcing cages can be quoted for concrete elements such as slabs, walls, cores, columns, piles and other construction elements
- A significant number of case studies detailing examples of specific projects and customer testimonials where OneSteel Reinforcing has added value and assisted in saving time, cost and steel using the above products and services are available at www.reinforcing.com (pdf's) and at www.reinforcing.tv (videos)

OneSteel Reinforcing will be pleased to discuss the requirements of your specific project, and how we can assist you in optimising the use of steel and maximise your opportunity to gain two Green Star steel credit points for your projects.

- OneSteel Reinforcing needs to talk to customers EARLY in the project and provide a quotation for the products and services to achieve this.
- Documentation to demonstrate compliance with optimal fabrication techniques is required from the steel fabricator/reinforcement processor in the form of a short report on where optimal steel manufacturing techniques are claimed, the approved optimal off site fabrication techniques used in the building, and the quantities by mass of steel used in each optimal off site fabrication
- OneSteel Reinforcing can confirm by letter that it can meet the above requirements for specific projects as per the GBCA documentation requirements

We trust that this information is of assistance. Please feel free to contact us if you have any questions.

Yours faithfully



David Armston
Manager Marketing & Business Development