



UK Certification Authority for Reinforcing Steels

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Our Ref: CFR2017- 001

1 August 2018

Mr. Stuart Watson
Commercial Director

Midland Steel Reinforcement Supplies, UK
Railway House
Grain Road, Isle of Grain
Rochester, Kent
ME3 0EP

Dear Stuart,

CARES Sustainable Constructional Steel (SCS) Scheme - Carbon footprint report 2017

I have pleasure in sending the above Carbon footprint report. One of the KPI's of the CARES Sustainable Constructional Steel (SCS) Scheme is the product carbon footprint, expressed as CO_{2e}. CARES have developed a carbon footprint tool to ensure consistency of boundary definition, data collection, calculation and reporting. This carbon footprint report is calculated based on calculation rules specified in Product Category Rules for Type III environmental product declaration of construction products to EN 15804:2012+A1:2013 by BRE Global Ltd, as used in CARES' EN15804 compliant EPD Scheme. The management of the data collected will form a part of subsequent surveillance audits.

CARES have already determined the acceptability of the certification of your environmental management system according to the requirements of ISO 14001, your occupational health and safety management system according to the requirements of OHSAS 18001 and the acceptability of your data collection and reporting system for the Sustainability Scheme's key performance indicators (KPI's) described in the relevant Appendix.

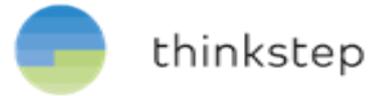
The carbon footprint report should be presented with the CARES Sustainable Constructional Steel (SCS) Certificate bearing the same certificate number.

Please do not hesitate to contact me if you require any further information.

Yours sincerely

C. Bahadir Karadayi
Scheme Manager – Sustainability

Enc. Carbon footprint report 2017 (2 pages)



CARBON FOOTPRINT REPORT – FABRICATOR

Company: Midland Steel Supplies GB Ltd

Production location: Railway House, Grain Road, Isle of Grain, Rochester, ME3 OEP.

Reporting period: 01/01/2017 - 31/12/2017

Certificate number: 1287

INTRODUCTION

This report provides a summary of the carbon footprint assessment results for the production of construction steel forms at the location given above.

The results are reported for 1 tonne of reinforcing steel as installed in a building based on data provided by the company in a questionnaire and verified by UK CARES. The whole life cycle of the product has been assessed.

Methodology:

This carbon footprint report is calculated based on calculation rules specified in Product Category Rules for Type III environmental product declaration of construction products to EN 15804:2012 by BRE Global Ltd, as used in UK CARES' EN15804 compliant EPD Scheme.

RESULTS

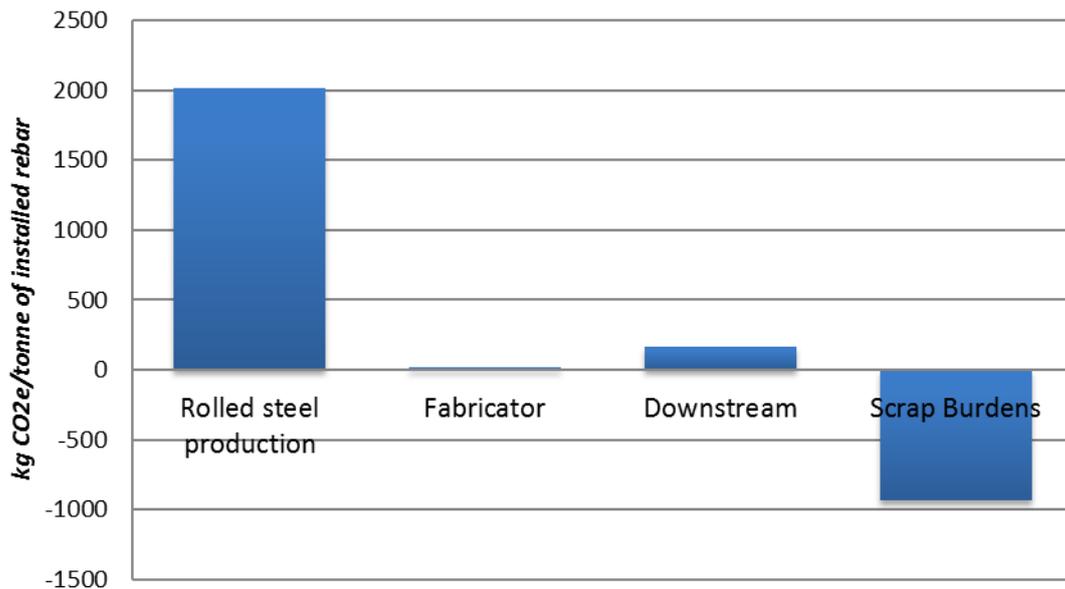
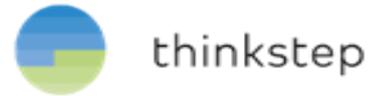


Figure 1: Carbon footprint results for production of 1 tonne of construction steel forms

Table 1: Carbon footprint results (kg CO₂e/tonne construction steel forms)

Impact Category	Rolled steel production	Fabricator	Downstream	Scrap Burdens	Total
GWP, kg CO ₂ e	2013	18	167	-936	1261



EXPLANATION OF TERMS

DOWNSTREAM

The scope of the EPD tool covers the manufacture of rolled steel billet, the fabricating of rebar into construction steel forms, installation of construction steel forms into the building, demolition of the building at the end of its useful life and finally end of life of the recovered rebar. However, certain aspects of this scope are beyond the direct remit of construction steel form producers. The term “Downstream” refers to these aspects and includes impacts from installation, demolition and recovery efforts; as well as associated transport where applicable.

SCRAP BURDENS

EN 15804 permits “benefits and loads beyond the system boundary” to be optionally declared. In this CF summary report these are listed as scrap burdens and account for impacts allocated to scrap consumed by the process, or recovered and recycled at end of life. In this assessment it is assumed that the recycling rate at for installation scrap and at end of life is 92%. Other methodologies, such as the “cut-off” approach, do not assign burdens to scrap inputs but equally do not give any credits to recycling at end of life. The burdens associated with scrap are clearly reported in this summary enabling the results to be interpreted according to either methodology.

----- End of report -----

Disclaimer

This document, designed to promote consistency in carbon footprint reporting in the reinforcing steel sector, has been developed through a multi-stakeholder consultative process involving representatives of building/civil engineering construction designers, specifiers, producers, processors, clients and report-users from around the world. While CARES encourages the use of the carbon footprint tool by all approved firms, the preparation and publication of reports based fully or partially on the carbon footprint tool is the full responsibility of those producing them. Neither CARES and thinkstep nor other individuals who contributed to this methodology assume responsibility for any consequences or damages resulting directly or indirectly from its use in the preparation of reports or the use of reports based on the carbon footprint tool.