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14/04/2021

Environmental Impact of Steel Production and Processing 2021	
MATERIAL	Galvanized and Mild Steel Sections
SUPPLIER	voestalpine Metsec plc
	Broadwell Road,
	Oldbury,
	Warley,
	West Midlands B69 4HF
ENVIRONMENTAL IMPACT	MANUFACTURER INFORMATION / COMMENTS:
Fossil Fuel Depletion. A measure of the	For the manufacturing process we do not directly use coal, oil
amount of non-renewable resources used	or gas. We use electricity for production purposes and gas for
in creating energy for a particular process -	heating the work area. We use 4,540,375kWh of electricity per
Coal, oil or gas consumption.	year and 2,223,531kWh of gas (source data from energy bills)
Climate Change Energy Used in section	With regards to climate change and greenhouse gasses the
<b>priduction</b> . A measure of the	above energy consumption is equivalent to 2871 tonnes of
resultant climate change caused by the	carbon dioxide. Calculated using the "Cities for Climate
Creation of energy for a particular process	Protection Greenhouse Gas" software.
- Production of greenhouse gases.	
Climate Change Energy Used in Crude Steel	Every ton of steel produced in 2018 emitted on average 1.85
Production. A measure of the	tons of carbon dioxide (www.mckinsey.com/industries/metals-
resultant climate change caused by the	and-mining). Using the above data to convert this to rolled
Creation of energy for a particular process	section would take an additional 0.03 tonnes of CO2. Total for
<ul> <li>Production of greenhouse gases.</li> </ul>	rolled section including steel production is 1.88 tonnes of CO2.
Recycled Content. A measure or	The manufacture of steel allows for 100% re-used materials to
percentage of the amount of secondary or	be added and includes a significant recycled content, the
re-used materials in a product.	average of which is 60% for structural steel used in the UK
	according to WRAP. Information current as of 2019
	www.steelconstruction.info/Sustainability#Steel_manufacture
Recyclability. A measure or % of the	100% of the steel sections can be recycled at the end of use or
amount of material that can be reused	life. – Worldsteel Association Fact Sheet – Steel and Raw
recycled at the Product end of the life.	Materials Last updated: Feb 2019
<b>Durability.</b> Expected lifespan of the material	The durability of cold formed steel is dependent upon the
and maintenance issues.	environmental conditions it is exposed to and the coating type
	and thickness of the product supplied. These need to be taken
	into account when selecting a product and it's required life to
	first maintenance.
<b>Ecotoxicity</b> . The emission of substances	In its finished state, of a steel section, there is no potential for
within the product that can potentially	contamination, this will only occur if the product state is
contaminate the building or surrounding	changed and this is not foreseen.
environment.	
Completed By:	Stephen Giles: voestalpine Metsec plc Environmental Manager

https://

