

PRODUCT CARBON FOOTPRINT

CARBON FOOTPRINT OF A PRODUCT (CPF) IS A SUM OF GREENHOUSE GAS EMISSIONS AND REMOVALS IN A PRODUCT SYSTEM EXPRESSED AS CO₂E EQUIVALENTS (CO₂E) AND BASED ON A LIFE CYCLE ASSESSMENT USING THE SINGLE IMPACT CATEGORY OF CLIMATE CHANGE. GREEN HOUSE GASES GHGS ARE EMITTED AND REMOVED THROUGHOUT THE LIFE CYCLE OF A PRODUCT (I.E. CRADLE-TO-GRAVE) FROM RAW MATERIAL ACQUISITION THROUGH PRODUCTION, USE AND END-OF-LIFE TREATMENT. CARBON FOOTPRINT CALCULATION IS IN ACCORDANCE WITH TECHNICAL SPECIFICATION OF CPF GIVEN BY ISO NORM 14067:2013.

Šroubárna Kyjov, spol. s r.o.

COMPANY

Product Carbon Footprint of Screw spikes (SS NG)

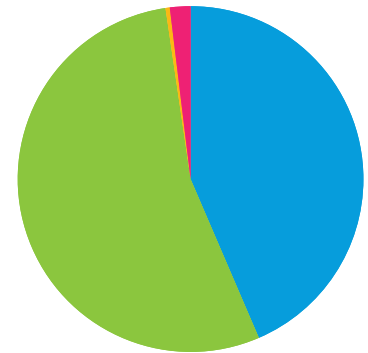
PRODUKT/AREA

2016
YEAR OF
CALCULATION

0.618 kg/piece
UNIT

RESULT

	kg CO ₂ e	%
Raw materials incl. transport	0.431	43.5%
Steel making	0.536	54.1%
Screw manufacturing	0.004	0.4%
Dispatching to client	0.019	1.9%



Screw Spike (SS NG) are produced by Šroubárna Kyjov, spol. s r.o. Cradle-to-client methodology of Carbon footprint of a Product (CFP) was employed in the assessment. Use of product and end-of-life phases were not incorporated (recycling will reduce total CFP). Total CFP is dominated by production of the main material - steel in Třinecké železářny, a. s. (54% of total CFP). Mining and processing of raw materials (iron ore in Ukraine, coal and limestone in the Czech Republic) add significant part of total CFP - 44%. Manufacturing of Screw Spikes in Šroubárna Kyjov incorporate use of "green electricity" with zero carbon emission. Therefore, it has only negligible effect to overall CFP - 0.4%. Dispatching of product to client produces less than 2% of total footprint.

0.99 kg CO₂e

TOTAL

Not determined

DETERMINATION OF TREND

DESCRIPTION

29. 11. 2016

DATE

Praha

PLACE



CI2, o.p.s.
Ke Skolce 1519/51
252 19 Rudná

SIGNATURE