



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 (SS28-200+ULS)

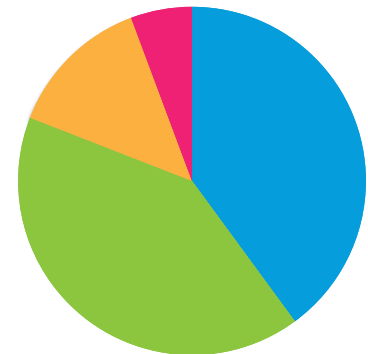
PRODUKT/AREA

2017
YEAR OF
CALCULATION

0.612 kg/piece
UNIT

RESULT

	kg CO ₂ e	
Raw materials incl. transport	0.504	45.9%
Steel making	0.518	47.2%
Screw manufacturing	0.004	0.4%
Zinc coating, incl. transport	0.072	6.5%



Screw Spike (SS NG) are produced by Šroubárna Kyjov, spol. s r.o. Cradle-to-gate methodology of Carbon footprint of a Product (CFP) was employed in the assessment. Transport to client, 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. (41% of total CFP). Mining and processing of raw materials (iron ore, coal, limestone and zinc) add significant part of total CFP - 40. Manufacturing of Screw Spikes in Šroubárna Kyjov incorporate use of "green energy" with zero carbon emission. Therefore, it has only negligible effect to overall CFP - 0.4%. Zinc coating in another plant (Hustopeče) adds 6% to the total CFP.

1.098 kg CO₂e

TOTAL

Not determined

DETERMINATION OF TREND

DESCRIPTION

24. 05. 2017

DATE

Praha

PLACE



SIGNATURE