

CLIMATE DECLARATION FOR

CR400AF-Z 350KM/H FUXING INTELLIGENT EMU
FROM CRRC QINGDAO SIFANG CO., LTD.

Functional unit: CR400AF-Z TO TRANSPORT 1 PASSENGER FOR 1 KM

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025



Information about the product

CR400AF-Z is a type of new generation intelligent EMU developed based on CR400AF technology platform. It adopts Ethernet train control network and 5G / Beidou vehicle-ground wireless transmission device to realize high-speed transmission of large volume data at a rate of hundreds of megabytes per second. Equipped with automatic train operation device, this type of train is capable of automatic operating, accurate stopping and automatic door opening at stations. Its technical characteristics includes intelligent operation, ride comfort and low environmental impact.

Information about the company

As the core enterprise of CRRC Corporation Limited, CRRC Qingdao Sifang Co., Ltd. (short for CRRC Sifang) is China's industrialization base of manufacturing highspeed trains, the leading enterprise to design and manufacture the top-grade passenger train, urban rail transit vehicle manufacturer and the important export manufacturing base of the national rail transportation equipment. CRRC Sifang features an integral system of independent development, large-scale manufacturing,

and top-level service. CRRC Sifang leads railway sector in researching.

Climate declaration

The table below lists the emissions of greenhouse gases for the whole life cycle of the product in kg CO₂ eq. per transport of 1 passenger for 1 km.

	Upstream	Core	Downstream	Total
GWP - Fossil	4.09E-04	2.57E-05	2.32E-02	2.36E-02
GWP - Biogenic	9.10E-06	3.43E-07	-9.43E-06	2.26E-08
GWP - Luluc	1.13E-06	6.19E-09	1.50E-05	1.61E-05
GWP - Total	4.19E-04	2.60E-05	2.32E-02	2.36E-02

Other environmental impacts

For the full EPD, see www.environdec.com.

Contact information

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EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM		REGISTRATION NO: S-P-09386	VALIDITY: 2028-05-25
PCR: ROLLING STOCK (VERSION 3.0.5)	UN CPC: 495	PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD SYSTEM	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: THIRD PARTY VERIFIER: DANIEL BÖCKIN, MILJÖGIRAFF AB, DANIEL@MILJOGIRAFF.SE.		ACCREDITED / APPROVED BY: THE INTERNATIONAL EPD® SYSTEM	
CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE			
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