

D-PURE+

Heavy plate with a reduced CO₂ footprint

Material data sheet, Rev. December 2023

Dillinger uses the **D-PURE+** label to identify heavy plate that has a reduced CO₂ footprint compared to the conventional heavy plate production process. The product carbon footprint (PCF) is reduced by around half compared to the traditional route via the blast furnace, LD steel mill and rolling mill.

The CO₂ emissions were verified and validated in accordance with DIN EN ISO 14064-3 of the Greenhouse Gas Protocol and DIN EN ISO 14067 by Pro Terra Umweltschutz und Management Beratung GmbH Umweltgutachter on September 22nd, 2023.

Production route

D-PURE+ is melted in the electric steelworks of Saarschmiede GmbH Freiformschmiede in Völklingen and cast in the ingot. Rolling, heat treatment and testing are carried out at AG der Dillinger Hüttenwerke.

Product designation

Designation and scope of application

The designation **D-PURE+** is shown as a supplement to a standard quality or a product brand from Dillinger in addition to the usual information on the certificate.

D-PURE+ is supplied in the following CO₂ emission class:

- 1200: The CO₂ emissions of this class amount to around 1200 kg CO₂ e / tonne of finished sheet on the production route described and considering the German electricity mix. The verification and validation report prepared by Pro Terra

The verification and validation report prepared by Pro Terra contains the information on CO₂ emissions and can be viewed at <https://www.dillinger.de/d/downloads/download/18870>.

D-PURE+ can be manufactured in accordance with the Dillinger dimensional programme and in grades that can be represented by the delivery conditions listed below.

Delivery condition

Normalized (abbreviation N) or quenched and tempered (abbreviation Q+T).

Marking

Unless otherwise agreed, the Marking is carried out by steel stamping with at least the following information:

- Steel grade (standard designation or product brand of Dillinger and **D-PURE+**), followed by the emission class 1200
- Heat number
- Rolling plate and finished plate number
- Manufacturer's mark
- Mark of the authorised inspector
- The link to the Pro Terra verification and validation report can be viewed at <https://www.dillinger.de/d/downloads/download/18870> and is stated in the certificate.

Contact

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