



DILLINGER STRUCTURAL STEEL PLATES ACCORDING TO DBS 918002-02 NOW ON STOCK AT ANCOFER

Due to increasing demand, Ancofer in Mülheim, Germany, now stocks Dillinger structural steel plates S355J2+N according to Deutsche Bahn (German Railways) guideline DBS 918002-02. Dillinger Hütte, as HPQ-qualified supplier, certifies a so called weld-bend test for these plates thicker than 30 mm. Furthermore, 3.2-certificates are issued for all these stocked plates ranging up to 60 mm thickness and 2,500 mm width.

German Railways requires that the DBS 918002-02 guideline, actual edition 2013, has to be applied for all **German Railways' steel bridge constructions**. The plates stocked at Ancofer comply with this guideline.

For German federal **street bridges**, the guideline ZTV-ING (additional technical guidelines for civil engineering constructions in Germany) is normally obligatory. Additionally to the current DBS, ZTV-ING requests inspection certificates 3.2 validated by an independent authority. The plates stocked at Ancofer fulfill also this guideline.

Recently, the **classical steel construction** sector in Germany introduced again the necessity of a successfully passed weld-bend test or alternatively the use of grades of enhanced toughness. Like DIN 18800-7 in the past, the German National Annex to Eurocode, EN 1993-1-1, prescribes these requirements.

This is not only a German approach since other countries have similar regulations. For example, French guidelines also define an enhanced toughness. The plates with thicknesses up to 60 mm stocked at Ancofer meet this weld-bend test requirement. Furthermore, the structural steel grades S355M/N and S355ML/NL fulfilling the equivalence criteria of enhanced toughness are on stock up to a plate thickness of 250 mm, depending on the grade.

From a technical point of view, the DBS 918002-02 guideline differs from the steel construction requirements defined in EN 1090-2 in particular through:

- The weld-bend test according to SEP 1390 has to be certified for the structural steel plate S355J2+thicker than 30 mm and for welded and tension stressed parts. Instead of S355J2+N, structural steel grades with enhanced toughness as S355M/N or S355ML/NL can be used alternatively, depending on plate thickness.
- All structural steel plates S355J2+N in thicknesses from 16 mm have to be tested per rolled plate and not only per larger test units.
- The plate mill has to perform and certify ultrasonic testing for structural steel plates in thicknesses from 10 mm which are used in main support structures.

By extending its product range to structural steel plates S355J2+N in conformity with the DBS 918002-02 guideline, Ancofer responds to the increasing demand for structural steel plates with mill certified weld-bend tests, even for stocked plates.