



AC 161



Polska

CERTIFICATE

No. TSP-3834-427.01

Company

GREENBRIER
Europe

WAGONY ŚWIDNICA Sp. z o.o.

ul. Strzelińska 35, 58-100 Świdnica, Poland

With production plant

WAGONY ŚWIDNICA Sp. z o.o.

ul. Strzelińska 35, 58-100 Świdnica, Poland

fulfils the **quality requirements for fusion welding processes acc.**

PN-EN ISO 3834-2:2007

The range of approval is presented in the Annex.

The period of validity of certificate: from 10.05.2019 to 09.05.2024

Next surveillance audit until **25.04.2022** under the pain of expiry of the certificate.

Warsaw, date 04.05.2020


Artur Labus
Dyrektor Centrum Certyfikacji



TÜV SÜD Polska Sp. z o.o.

ul. Podwale 17

00 – 252 Warszawa



(PP05-F03-3834 issue.5 valid from 01-10-2018)

www.tuv-sud.pl

TÜV®



Certificate of welding processes according to PN-EN ISO 3834-2:2007

covers the following range:

Product and scope of application: Designing, manufacturing, conversion and repair of rail vehicles and their components.

Product standard/specification: ISO 15609-1, ISO 15609-2, ISO 15614-1, ISO 15614-2, ISO 15612, ISO 15613, ISO 17663, AD 2000 MERKBLATT HP7/1, ISO 13916, ISO/TR 17671-2, ISO 17635, ISO 17662, ISO 14555.

Base materials: 1.1, 1.2, 1.3, 2.2, 3.1, 7.1, 8, 9, 10.1, 22, 23, 1.2/X120Mn12, 1.2 + 8.1, HARDOX 450.

Dimensions: Material thickness up to 80,0 mm
Pipe diameters from 24,15 mm
Range of wall thickness from 0,7 to 80,0 mm

Welding methods:

- 21 – Resistance spot welding
- 24 – Flash welding
- 111 – Manual metal arc welding
- 121 – Submerged arc welding with solid wire electrode
- 131 – MIG welding with solid wire electrode
- 135 – MAG welding with solid wire electrode
- 136 – MAG welding with flux cored electrode
- 138 – MAG welding with metal cored electrode
- 141 – TIG welding with solid filler material (wire/rod)
- 784 – Short-cycle drawn arc stud welding

135 + 121 – MAG welding with solid wire electrode + Submerged arc welding with solid wire electrode

141 + 131 – TIG welding with solid filler material (wire/rod) + MIG welding with solid wire electrode

141 + 135 – TIG welding with solid filler material (wire/rod) + MAG welding with solid wire electrode

Welding supervisor: Mariusz Pławewski (IWE)

Deputy of welding supervisor: Wojciech Radliński (IWE)

Non destructive testing personnel:

Person responsible for non destructive testing: Andrzej Jaworski (VT3, PT2)

Deputy of non destructive testing responsible person: Sławomir Pokój (VT2, PT2, MT2, UT2, RT3)

REMARKS: The certification was granted in accordance with the certification program PR3834, date 01.02.2019. The validity of the certificate may be confirmed by scanning the QR code or visit the web address:

http://certyfikaty-tuv-sud.pl/certyfikaty_wyrobow/

Warsaw, 04.05.2020



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