**TAN-Nr.: TAN****Auftragsnummer:    /     /**

***TAN no.: Order code:***

**Checkliste B W01/ Weichen, Kreuzungen und Schienenauszüge**

***Checklist B W01 Switches, crossings and expansion joints***

**[ ]  Checkliste B 120 Fertigung und Montage von Weichen, Kreuzungen und Schienenauszügen/**

 ***Checklist B 120 Production and assembly of switches, crossings and expansion joints***

**[ ]  Checkliste B 142 Herzstücke für Weichen und Kreuzungen/**

 ***Checklist B 142 Common crossings for switches and crossings,***

**[ ]  Checkliste B 141 Bainitische Herzstücke für Weichen und Kreuzungen/**

 ***Checklist B 141 Bainitic common crossings for switches and crossings,***

**Firma/ *Company:***

**Standort/ *Location:***

**Fertigung für Firma/ *Production for company:***

|  |  |
| --- | --- |
|  **1** | **Welche Profile und Stahlgüten werden für die Deutsche Bahn AG eingesetzt?/** ***What profiles and steel grades are used for Deutsche Bahn AG?*** |
|  | **Schienenprofile/ *Rail profiles*** | **R 260** | **R 350** | **R 320** | **Sonder-güte/** ***Special grade*** | **Bemerkungen/** ***Comments*** |
| [ ]  | 49 E5/ *49 E5* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 49 E1 (Hemmschuhbetrieb)/ *49 E1 (drag shoe operation)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 49 E5 A1 (Zu 1 – 49)/ *49 E5 A1 (Zu 1 – 49)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 49 E5 A2/ *49 E5 A2* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 49 E5 F1 (VO 1 – 49)/ *49 E5 F1 (VO 1 – 49)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 54 E4/ *54 E4* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 54 E3 (Hemmschuhbetrieb)/ *54 E3 (drag shoe operation)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 54 E4 A2 (Zu 1 – 54)/ *54 E4 A2 (Zu 1 – 54)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 54 E4 A2/ *54 E4 A2* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 54 E4 F1 (VO 1 – 54)/ *54 E4 F1 (VO 1 – 54)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 60 E2/ *60 E2* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 60 E2 A1 (60 E2 – 40)/ *60 E2 A1 (60 E2 – 40)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 60 E2 A2 (Zu 60 E2 – 40)/ *60 E2 A2 (Zu 60 E2 – 40)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 60 E1 F1/ *60 E1 F1* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 60 E2 F1 (VO 60 E2 – 40)/ *60 E2 F1 (VO 60 E2 – 40)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 36 C1 (RL 1 – 49)/ *36 C1 (RL 1 – 49)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 48 C1 (RL 1 – 54)/ *48 C1 (RL 1 – 54)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  | 33 C1 (RL 1 – 60)/ *33 C1 (RL 1 – 60)* | [ ]  | [ ]  | [ ]  |       |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |       |

**Nicht zutreffende Punkte finden keine Betrachtung im Bewertungsfeld!/**

***Items that do not apply are not analysed in the assessment field!***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **2** | **Liegen die erforderlichen Normen und Bahnstandards in der aktuellen Ausgabe und in der Landessprache vor?/** ***Is the latest edition of the requisite standards and rail standards available in the national language?*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | EN 13 674-1 Schienen ab 46 kg/m/ *EN 13 674-1 Rails from 46 kg/m* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | EN 13 674-2 Konstruktionsschienen/ *EN 13 674-2 Switch and crossing rails* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | EN 13 674-3 Radlenkerschienen/ *EN 13 674-3 Check rails* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | EN 14 587-1 Abbrennstumpfschweißungen/ *EN 14 587-1 Flash butt welding* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 006 Federringe/ *DBS 918 006 Spring steel washers* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 024 Stählerne Oberbauschrauben/ *DBS 918 024 Steel bolts for use in permanent way* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 025 Gewalzte Oberbauteile/ *DBS 918 025 Rolled permanent way components* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 120 Weichen/ *DBS 918 120 Switches* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 122 Umschmiedungen/ *DBS 918 122 Reforgings* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 125 Geschmiedete Oberbauteile/ *DBS 918 125 Forged permanent way components* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 126 Gegossene Oberbauteile/ *DBS 918 126 Cast permanent way components* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 141 Herzstücke (bainitisch)/ *DBS 918 141 Common crossings (bainitic)* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 142 Herzstücke für WE und KR/ *DBS 918 142 Common crossings for switches and crossings* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 235 Elast. Zwischenlagen und -platten/ *DBS 918 235 Elast. rail pads and sandwich plates* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 254-1 Schienen ab 46 kg/m/ *DBS 918 254-1 Rails from 46 kg/m* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 254-2 Konstruktionsschienen/ *DBS 918 254-2 Switch and crossing rails* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 254-3 Radlenkerschienen/ *CDBS 918 254-3 Check rails* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 255-1 Abbrennstumpfschweißungen/ *DBS 918 255-1 Flash welding* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DSB 918 256 Isolierstöße/ *DBS 918 256 Insulated rail joints* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DBS 918 280 Kunststoffteile für den Oberbau/ *DBS 918 280 Plastic components* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | DB-Richtlinien/ *DB Guidelines* | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3** | **Liegen die aktuellen Konformitäts-/Interoperabilitätsbescheinigungen vor?/** ***Are the current conformity/interoperability certificates available?*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **4** | **Liegen EBA-Zulassungen aktualisiert vor?/** ***Are updated EBA approvals available?*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **5** | **Welche Konstruktionen werden gefertigt?/** ***What designs are produced?*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | Weichen/ *Switches* | [ ]  | [ ]  | [ ]  | [ ]  Regelbauart/ [ ]  Sonderbauart/  *Standard design Custom design*      |
| [ ]  | Kreuzungen/ *Crossings* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Schienenauszüge/ *Expansion joints* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Hemmschuhauswurfvorrichtungen/ *Rail slippers* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Isolierstöße (Checkliste B 256)/ *Insulated rail joints (Checklist B 256)* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Zungen (Umschmiedungen) (Checkliste B 122)/ *Switch blades (reforgings) (Checklist B 122)* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Perlitische Herzstücke/*Pearlitic common crossings*[ ]  doppelte und mehrfache Herzstücke/ *Double and multiple common crossings*,[ ]  mit EB-geschweißten Herzstückspitzen/ *EB-welded points of crossing*,[ ]  mit verschraubten Haupt- und Beispitzen/ *with bolted point and splice rails*,[ ]  Blockspitzenkonstruktion Bauart BWG/ *Crossing block, BWG design*[ ]  UP geschweißt/ *Submerged-arc welded*[ ]  Vollschienenblock Bauart DB/ *Solid rail block, DB design*,[ ]  federnd beweglich (EHfb)/ *spring movable (EHfb)*,[ ]  gelenkig beweglich (EHgb)/ *joint movable (EHgb)*,[ ]  Bauart Schreck-Mieves/ *Schreck-Mieves design*,[ ]  Bauart Laeis/ *Laeis design*,[ ]        | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  |       |
| [ ]  | Bainitische Herzstücke/ *Bainitic common crossings*[ ]  mit längsgeschweißtem Anschlussschienenblock der Bauart BWG, CrB 1400-Spitze und R350 HT-Flügelschienen/ *with longitudinally welded connection rail block of the type BWG, CrB 1400 tip and R350 HT wing rails*[ ]  mit Spitzen aus EB-verschweißten Regelschienen der Bauart WWW, CrB 1400-Spitze und R350 HT-Flügelschienen/ *with tips made of EB-welded standard rails of the design WWW, CrB 1400 tip and R350 HT wing rails*[ ]  mit längsgeschweißtem Anschlussschienenblock der Bauart BWG, CrB 1400-Spitze und R350 HT-Flügelschienen/ *with longitudinally welded connection rail block of the type BWG, CrB 1400 tip and R350 HT wing rails*[ ]  geschmiedete Herzstückspitzen mit angeschmiedeten Futterstücken/  *forged points of crossing with forged blocks* [ ]         | [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ]  |       |
| [ ]  | Zungenvorrichtungen/ *Sets of switches* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Zungen/ *Switch blades* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Backenschienen/ *Stock rails* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Radlenker/ *Check rails*[ ]  Schienenradlenker/ *Check rail*,[ ]  Profilradlenker/ *Check rail*[ ]        | [ ] [ ] [ ]  | [ ] [ ] [ ]  | [ ] [ ] [ ]  |       |
| [ ]  | Sonderkonstruktionen/ *Custom designs* | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **6** | **Schweißungen/ *Welds*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | Schweißverfahren/ *Welding procedures*[ ]  Abbrennstumpfschweißen (Checkliste B 255)/ *Flash butt welding (checklist B 255)*[ ]  Handschweißen, elektrisch (Checkliste B 826)/ *Manual welding, electric (checklist B 826)*[ ]  Handschweißen, autogen/ *Manual welding, gas-weld*[ ]  Automatenschweißen, Gas/ *Automatic welding, gas-weld*[ ]  Automatenschweißen, UP/ *Automatic welding, submerged-arc welding*[ ]  Automatenschweißen, Elektronenstrahl~/ *Automatic welding, electron beam ~*[ ]        | [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **7** | **Wärmebehandlung/ *Heat treatment*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | Wärmebehandlung/ *Heat treatment*[ ]  Induktiv/ *Inductive*[ ]  mittels Flamme/ *Using flame* | [ ] [ ]  | [ ] [ ]  | [ ] [ ]  |       |
| [ ]  | Vorgaben/ *Specifications* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Dokumentation/ *Documentation* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Kontrolle/ *Checking* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Steuerung und Überwachung/ *Control and monitoring* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Auflageflächen/ *Supporting surfaces* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Festspanneinrichtungen/ *Clamping devices* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Vorschubgeschwindigkeit/ *Travel speed* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Oberflächentemperatur/ *Surface temperature* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Energiezufuhr/ *Energy supply* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Abkühlluftmenge/ *Cooling air volume* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Zeit/ *Time* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Druck/ *Pressure* | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **8** | **Montage/ *Assembly*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | Konstruktionen/ *Designs*[ ]  Weichen/ *Switches*[ ]  Kreuzungen/ *Crossings*[ ]  Schienenauszüge/ *Expansion joints*[ ]  Hemmschuhauswurfvorrichtungen/ *Rail slippers*[ ]  Herzstücke/ *Common crossings*[ ]  Zungenvorrichtungen/ *Sets of switches*[ ]  Sonderkonstruktionen/ *Custom designs*      | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  |       |
| [ ]  | Kalibrierte Lehrschwellensätze/ *Calibrated template sleeper sets* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Nivellierte Gestelle für Montage/ *Levelled racks for assembly* | [ ]  | [ ]  | [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **9** | **Produkte/ *Products*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | **Checkliste B A01/ *Checklist B A01*** | [ ]  | [ ]  | [ ]  |       |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **10** | **Produktprüfungen/ *Product tests*** | **👍****☺** | **?****😐** | **👎☹** | **Bemerkungen/ *Comments*** |
| [ ]  | **Checkliste B A02/ *Checklist B A02*** | [ ]  | [ ]  | [ ]  |       |
| [ ]  | ZfP gemäß DBS 918 141/918 142/ *NDT as per DBS 918 141/918 142*[ ]  Lehrenprüfung/Maßprüfung/ *Gauge test/dimensional inspection*[ ]  PT/ *PT*[ ]  MT/ *MPI*[ ]  UT/ *UT* | [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ] [ ]  |       |
| [ ]  | Zerstörende Prüfung gem. DBS 918 141/918 142/ *Destructive testing as per DBS 918 141/918 142* | [ ]  | [ ]  | [ ]  |       |
| [ ]  | Zungenvorrichtungen gem. DBS 918 120/ *Sets of switches as per DBS 918 120*[ ]  gesamt/ *total*[ ]  Zunge/ *Switch blade*[ ]  Backenschiene/ *Stock rail* | [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ]  | [ ] [ ] [ ] [ ]  |       |
| [ ]  |       | [ ]  | [ ]  | [ ]  |       |

**Welches Herstellerzeichen/Schild verwendet die Firma?** (schwarz/weiß)/

***What manufacturer's mark/plate does the company use?*** *(black/white)*

Ggf. gesondert anfügen/

*Add separately if necessary*

**Weitere Bemerkungen:/**

***Additional comments:***

|  |  |  |
| --- | --- | --- |
| durchgeführt am/ *performed on**(dd.mm.yyyy)* | durchgeführt in/ *performed in* | durch QPI/ *by quality test engineer* |
|       |       |  |