TECHNICAL FILE

Bars/Wire/Lattice/Panels/Lattice girders

IN ACCORDANCE WITH IMPLEMENTATION RULES TRA 270/271/345/346/413(\*)

|  |  |  |  |
| --- | --- | --- | --- |
| Producer | |  | |
| Production site | | Headquarters | |
| Address |  | Addresss |  |
| Tel |  | Tel |  |
| Email |  | Email |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Inspection body | PROCERTUS | Producer |
| Checked □ | Checked □ |  |
| Agreement □ | Agreement □ |  |
| Date |  |  |  |
| Name  Initials  Seal |  |  |  |

|  |
| --- |
| Remarks of the inspection body |
|  |

|  |
| --- |
| Remarks of the producer |
|  |

|  |
| --- |
| Remarks of PROCERTUS |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| Revision Number | Object of the modification | Page (s) concerned | Date of the modification |
|  |  |  |  |

(\*) To Cross Out the useless mentions

Declaration of the producer

The technical dossier (DT) herewith formed integral part of the convention of the company above mentioned, of authorization of use of BENOR MARK for the production of bars/wires/steel fabrics/reinforcements assembled in the form of plane panels/lattice girders (\*) in accordance with NBN A 24-301/-302/-303/-304 (\*), with the TRA 270/271/345/346/413 (\*) and the PTV 302/303/304/305/307/308 (\*) carried out in its seat of manufacturing.

The producer declares that the contents of this technical dossier are entirely in conformity with the real situation with the seat of manufacturing at the date of the signature.

Done in

The

The producer

(\*) To Cross Out the useless mentions

Tables Of Content

Flow Chart

SALES ORGANIZATION

Staff quality

RESPONSIBLE SERVICE QUALITY

|  |  |  |
| --- | --- | --- |
|  | **Manpower** | **Substitute** |
| Name |  |  |
| First Name |  |  |
| Function |  |  |

STAFF OF CONTROL

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name and First Name** | **Function** | **Substitute** |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

**EXTERNAL LABORATORIES**

External Laboratories used by the producer, within the framework of its autocontrol, for tests which it cannot carry out in his own laboratory or in the event of failure of this one

|  |  |
| --- | --- |
| **Name** | **Address** |
|  |  |
|  |  |

Organization of the production, the shipment, the controls and the calibration

* Plan taking again the machine installation of with their designation, sections storage, advance of steels during the production, …
* Identification of the tensile testing machines
* Marking (each field and transverse section) (for the bars and wire)
* Model of label (possibly various colours).
* Model of delivery form.
* Bent lattices/panels, carried out with mandrel diameters lower than the standard, will be provided without BENOR MARK. (\*)

(\*)To Cross Out the useless mentions

Steels used (for the production of bars/wire)

PRODUCTION BE 500 (E)(R)(T)S - DE 500 BS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N°  steel | Nature:  coils,… | Characteristics of the raw materials | | | | Source:  producer |
| Re  min/max | Rm  min/max | Others | Range of  diameters |
| A1 |  |  |  |  |  |  |
| A2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

PRODUCTIE BE 500 S

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N°  steel | Nature:  billets,… | Characteristics of the raw materials | | | | Source:  producer |
| Re  min/max | Rm  min/max | Others | Dimensions |
| B1 |  |  |  |  |  |  |
| B2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Steels used (for the production of lattice/panels/lattice girders)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N°  steel | **Nature:**  Bars, coils | Characteristics of the raw materials | | Source:  producer + possible n°PROCERTUS |
| **Grade:**  BE 500 S, BE 500 (E)(R)(T)S, DE 500 BS | Range of the diameters |
| A1 |  |  |  |  |
| A2 |  |  |  |  |
| B1 |  |  |  |  |
| B2 |  |  |  |  |

Means of production (for the production of bars/wire)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N° of machine rolling mill Mi | Description: mark, standard, process,  year of construction, … | N° steel of origin (\*) | Heat Treatment | End product | | |
| Range of diameters | Type  of steel | **Form:** reels/bars |
| M1 |  |  |  |  |  |  |
| M2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

(\*)see table “steels used”

Means of production (for the production of lattice/panels/lattice girders)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N° of machine Mi | Description: mark, standard, process  year of construction, … | N° steel of origin (\*) | Form: wind bars | **Range of diameters** | Type of steel | Heat Treatment |
| M1 |  |  |  |  |  |  |
| M2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

(\*) to see table “steels used”

SAMPLING DESIGN

Bars/Wire

|  |  |  |
| --- | --- | --- |
| Controlled Parameter | Method of control | Frequency of control |
| Chemical Composition |  |  |
| Conventional Section |  |  |
| Mechanical Properties |  |  |
| Resistance to the rebending |  |  |
| Geometry + used formula |  |  |
| … |  |  |

SAMPLING DESIGN

Meshes/Panels

|  |  |  |
| --- | --- | --- |
| Controlled Parameter | Method of control | Frequency of control |
| Chemical Composition |  |  |
| Conventional Section |  |  |
| Mechanical Properties of the longitudinal wire |  |  |
| Mechanical Properties of the transverse wire |  |  |
| Resistance to the rebending on the longitudinal wire |  |  |
| Resistance to the rebending on the transverse wire |  |  |
| Shear Strength of the welds |  |  |
| Geometry of the wires + used formula |  |  |
| Dimensions lattice/panel |  |  |
| … |  |  |

SAMPLING DESIGN

Beams lattice

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Controlled Parameter | Type 1 | Type 2 | Type 3 | Type 4 | Means of  control | Frequency of control |
| Dimensions  beam lattice | x | x | x | x |  |  |
| Geometry  higher wire + used formula |  |  | x | x |  |  |
| Geometry  lower wires + used formula | x |  |  | x |  |  |
| Resistance to the rebending higher wire |  |  | x | x |  |  |
| Resistance to the rebending lower wires | x |  |  | x |  |  |
| Chemical Composition  wire superiors |  |  | x | x |  |  |
| Chemical Composition  lower wires | x |  |  | x |  |  |
| Mechanical Properties of the higher wire |  |  | x | x |  |  |
| Mechanical Properties of the lower wires | x |  |  | x |  |  |
| Tensile Strength  of all the wires  (except those above)) | x | x | x | x |  |  |
| Conventional Section  of all the wires | x | x | x | x |  |  |
| Shear Strength of  welded nodes | x | x | x | x |  |  |
| … |  |  |  |  |  |  |