

# Certificate

## Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 E/Q-02 6904A.02

Name and address of the  
certificate holder: **Sidenor Aceros Especiales, S.L.U.**  
**B° Ugarte, s/n**  
**48970 Basauri BIZKAIA**  
**Spain**

Herewith we certify that the material manufacturer has  
established and applies a Quality Management System.  
The system was audited according to the European Directive  
2014/68/EU, Annex I, point 4.3, with regard to the materials as  
listed in the scope of approval.

Test basis: **QM System acc. to EN 764-5, Clause 4.2 and  
AD 2000-Merkblatt W0**

Audit report no.: 01 202 E/Q-02 6904A

Scope: **MANUFACTURER OF STEEL ROLLED (BARS) AND  
FORGED BARS IN MATERIAL: CARBON, STEEL,  
ALLOY STEEL, AND STAINLESS STEEL, see annex  
to certificate: 01 202 E/Q-02 6904A, revision 12  
from 10.03.2026**

Manufacturing plant: see certificate holder

Validity: **The certificate is valid from 2026-06-01 until 2029-05-31.**

Cologne, 2026-05-29

Ines Krüger-Führ



TÜV Rheinland Industrie Service GmbH  
Notified Body for Pressure Equipment, ID-No. 0035  
Am Grauen Stein, D-51105 Cologne

E-108a

| Scope:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3                   |                                           |                                              |                      | <input checked="" type="checkbox"/> EN 764-4 |                                  |                                        |               | <input checked="" type="checkbox"/> AD 2000-Merkblatt W 0 |                                                                             |                                                                                                    |                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------------|----------------------------------------------|----------------------------------|----------------------------------------|---------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------|
| Certificate holder (Manufacturer of materials)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                          |                                                                                              |                                           |                                              | Manufacturing plant  |                                              |                                  |                                        | Nationality   |                                                           | Page No.:                                                                   | 1                                                                                                  | TÜV Rheinland<br>Industrie Service<br>GmbH |
| Company Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                          | SIDENOR ACEROS ESPECIALES, S.L.U                                                             |                                           |                                              | PLANT BASAURI        |                                              |                                  |                                        | E             |                                                           | of :                                                                        | 4                                                                                                  |                                            |
| Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                          | E 48970 BASAURI                                                                              |                                           |                                              |                      |                                              |                                  |                                        |               |                                                           | Date:                                                                       | 10.03.2026                                                                                         |                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                          |                                                                                              |                                           |                                              |                      |                                              |                                  |                                        |               |                                                           | Rev.:                                                                       | 12                                                                                                 |                                            |
| Cur -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Materials-term<br>Materials-No.                                                                                                                          | Material<br>Specification                                                                    | Delivery<br>Cond.                         | Article<br>Type of Product                   | Dimensions           |                                              |                                  |                                        | Weight<br>max |                                                           | Technical<br>Specifications<br>Requirements<br><br>Technical<br>Regulations | Remarks<br><br> |                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                          |                                                                                              |                                           |                                              | Thick-<br>ness<br>mm |                                              | Ø<br>mm                          |                                        | 1=t /<br>2=kg |                                                           |                                                                             |                                                                                                    |                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                          |                                                                                              |                                           |                                              | from                 | Up<br>to                                     | from                             | Up<br>to                               | ↓             | res<br>ult                                                |                                                                             |                                                                                                    |                                            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                                                                                                                                                        | 3                                                                                            | 4                                         | 5                                            | 6a                   | 6b                                           | 7a                               | 7b                                     | 8a            | 8b                                                        | 9                                                                           | 10                                                                                                 |                                            |
| <b>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</b><br>The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. |                                                                                                                                                          |                                                                                              |                                           |                                              |                      |                                              |                                  |                                        |               |                                                           |                                                                             |                                                                                                    |                                            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | X 6CrNiMoTi 17-12-2 1.4571<br>X 2CrNiMo 17-12-2 1.4404<br>X 5CrNi 18-10 1.4301<br>X 6CrNiTi 18-10 1.4541<br>X5CrNiMo 17-12-2 1.4401<br>X2CrNi18-9 1.4307 | DIN EN 10272<br>DIN EN 10272<br>DIN EN 10272<br>DIN EN 10272<br>DIN EN 10272<br>DIN EN 10272 | +AT<br>+AT<br>+AT<br>+AT<br>+AT<br>+AT    | BARS<br>BARS<br>BARS<br>BARS<br>BARS<br>BARS |                      |                                              | 20<br>20<br>20<br>20<br>20<br>20 | 120<br>120<br>120<br>120<br>120<br>120 |               |                                                           |                                                                             |                                                                                                    |                                            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 CrMo4 1.7218<br>34 CrNiMo 6 1.6582<br>40CrMoV4.6 1.7711<br>21 CrMoV 5.7 1.7709<br>42 CrMo 4 1.7225<br>C35E 1.1181                                     | DIN EN 10269<br>DIN EN 10269<br>DIN EN 10269<br>DIN EN 10269<br>DIN EN 10269<br>DIN EN 10269 | +S,+QT<br>+QT<br>+QT<br>+QT<br>+QT<br>+QT | BARS<br>BARS<br>BARS<br>BARS<br>BARS<br>BARS |                      |                                              | 20<br>20<br>20<br>20<br>20<br>20 | 120<br>120<br>120<br>120<br>65<br>120  |               |                                                           |                                                                             | b                                                                                                  |                                            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P 250 GH 1.0460<br>16 Mo 3 1.5415<br>13 CrMo 45 1.7335<br>10 CrMo 9-10 1.7380                                                                            | DIN EN 10273<br>DIN EN 10273<br>DIN EN 10273<br>DIN EN 10273                                 | +N<br>+QT<br>+QT<br>+QT                   | BARS<br>BARS<br>BARS<br>BARS                 |                      |                                              | 20<br>20<br>20<br>20             | 120<br>120<br>120<br>120               |               |                                                           |                                                                             |                                                                                                    |                                            |

| Remarks | +AT = solution annealed<br>+AR = as rolled<br>+M = thermo mechanical treated<br>+N = normalized or normalizing formed<br>+NT = normalized and tempered<br>+QT = quenched and tempered<br>+S = soft annealed<br>+SR = stress relieved<br>a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary<br>b = If the size of the product is outside the approved scope acc. to the standard, a PMA is requested |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Scope:                                         |                                 | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3 |                   |                            |                      | <input checked="" type="checkbox"/> EN 764-4 |      |               |               | <input checked="" type="checkbox"/> AD 2000-Merkblatt W 0 |                                             |                          |            |                                            |
|------------------------------------------------|---------------------------------|----------------------------------------------------------------------------|-------------------|----------------------------|----------------------|----------------------------------------------|------|---------------|---------------|-----------------------------------------------------------|---------------------------------------------|--------------------------|------------|--------------------------------------------|
| Certificate holder (Manufacturer of materials) |                                 |                                                                            |                   |                            |                      | Manufacturing plant                          |      |               |               | Nationality                                               |                                             | Page No.:                | 2          | TÜV Rheinland<br>Industrie Service<br>GmbH |
| Company Name:                                  |                                 | SIDENOR ACEROS ESPECIALES, S.L.U                                           |                   |                            |                      | PLANT BASAURI                                |      |               |               | E                                                         |                                             | of :                     | 4          |                                            |
| Location:                                      |                                 | E 48970 BASAURI                                                            |                   |                            |                      |                                              |      |               |               |                                                           |                                             | Date:                    | 10.03.2026 |                                            |
|                                                |                                 |                                                                            |                   |                            |                      |                                              |      |               |               |                                                           |                                             | Rev.:                    | 12         |                                            |
| Cur -                                          | Materials-term<br>Materials-No. | Material Specification                                                     | Delivery<br>Cond. | Article<br>Type of Product | Dimensions           |                                              |      |               | Weight<br>max |                                                           | Technical<br>Specifications<br>Requirements | Technical<br>Regulations | Remarks    |                                            |
|                                                |                                 |                                                                            |                   |                            | Thick-<br>ness<br>mm | Ø<br>mm                                      |      | 1=t /<br>2=kg |               |                                                           |                                             |                          |            |                                            |
|                                                |                                 |                                                                            |                   |                            | from                 | Up<br>to                                     | from | Up<br>to      | ↓             | res<br>ult                                                |                                             |                          |            |                                            |
| 1                                              | 2                               | 3                                                                          | 4                 | 5                          | 6a                   | 6b                                           | 7a   | 7b            | 8a            | 8b                                                        | 9                                           |                          |            |                                            |

  

### 2. Materials according to the AD 2000-Code

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

|   |                     |        |                  |       |      |  |  |    |     |  |  |             |                                          |
|---|---------------------|--------|------------------|-------|------|--|--|----|-----|--|--|-------------|------------------------------------------|
| 4 | S 235J2             | 1.0117 | DIN EN 10025 - 2 | +AR+N | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
|   | S-235 JR            | 1.0038 | DIN EN 10025 - 2 | +AR+N | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
|   | S 275 JR            | 1.0044 | DIN EN 10025 - 2 | +AR+N | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
|   | S 275J2             | 1.0145 | DIN EN 10025 - 2 | +AR+N | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
|   | S 355 J2            | 1.0577 | DIN EN 10025 - 2 | +AR+N | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
| 5 | P 250 GH            | 1.0460 | DIN EN 10273     | +N    | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
|   | P 355 NH            | 1.0565 | DIN EN 10273     | +N    | BARS |  |  | 20 | 120 |  |  | AD 2000 W13 | a                                        |
| 6 | 25 CrMo4            | 1.7218 | DIN EN 10269     | +QT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 7 | a and EN 10204 3-2 certificate <400°C    |
|   | 21 CrMoV 5.7        | 1.7709 | DIN EN 10269     | +QT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 7 | a and EN 10204 3-2 certificate           |
|   | 40CrMoV4.6          | 1.7711 | DIN EN 10269     | +QT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 7 | a and EN 10204 3-2 certificate           |
|   | 42 CrMo 4           | 1.7225 | DIN EN 10269     | +QT   | BARS |  |  | 25 | 65  |  |  | AD 2000 W 7 | a ,b and EN 10204 3-2 certificate <500°C |
|   | C35E                | 1.1181 | DIN EN 10269     | +QT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W7  | a                                        |
| 7 | X 6CrNiTi 18-10     | 1.4541 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |
|   | X 6CrNiMoTi 17-12-2 | 1.4571 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |
|   | X 2CrNiMo 17-12-2   | 1.4404 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |
|   | X 5CrNi 18-10       | 1.4301 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |
|   | X5CrNiMo 17-12-2    | 1.4401 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |
|   | X2CrNi18-9          | 1.4307 | DIN EN 10272     | +AT   | BARS |  |  | 20 | 120 |  |  | AD 2000 W 2 | a                                        |

  

|                |                                       |                               |                                                                                                       |
|----------------|---------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Remarks</b> | +AT = solution annealed               | +NT = normalized and tempered | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary                           |
|                | +AR = as rolled                       | +QT = quenched and tempered   | b = If the size of the product is outside the approved scope acc. to the standard, a PMA is requested |
|                | +M = thermo mechanical treated        | +S = soft annealed            |                                                                                                       |
|                | +N = normalized or normalizing formed | +SR = stress relieved         |                                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                |       |                                                                             |            |                                                                                                |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|----------------|----------------------------------------------|----------------------------|-------------|------------------------------------|-----------------------------------------------------------|------------------------------------------------|-------|-----------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------|------|
| Scope:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                     |                | <input checked="" type="checkbox"/> EN 764-4 |                            |             |                                    | <input checked="" type="checkbox"/> AD 2000-Merkblatt W 0 |                                                |       |                                                                             |            |                                                                                                |      |
| Certificate holder (Manufacturer of materials)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | Manufacturing plant |                |                                              |                            | Nationality |                                    | Page No.:                                                 |                                                | 2     |                                                                             |            |                                                                                                |      |
| Company Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | <b>SIDENOR ACEROS ESPECIALES, S.L.U</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                     |                | <b>PLANT BASAURI</b>                         |                            |             |                                    | <b>E</b>                                                  |                                                | of :  |                                                                             | 4          |                                                                                                |      |
| Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | E 48970 BASAURI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                | Date: |                                                                             | 10.03.2026 |                                                                                                |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                | Rev.: |                                                                             | 12         |                                                                                                |      |
| Cur -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Materials-term<br>Materials-No. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Material Specification |                     | Delivery Cond. |                                              | Article<br>Type of Product |             | Dimensions<br>Thick-<br>ness<br>mm |                                                           | Weight<br>max<br>1=t /<br>2=kg<br>↓ res<br>ult |       | Technical<br>Specifications<br>Requirements<br><br>Technical<br>Regulations |            | Remarks<br> |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                      |                     | 4              |                                              | 5                          |             | 6a 6b 7a 7b                        |                                                           | 8a 8b                                          |       | 9                                                                           |            | 10                                                                                             |      |
| <b>3. Materials according to other standards</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                |       |                                                                             |            |                                                                                                |      |
| The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                |       |                                                                             |            |                                                                                                |      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 34 CrNiMo 6                     | 1.6582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683 -2          | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 CrMo4                        | 1.7218                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683 -2          | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30CrNiMo8                       | 1.6580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683-2           | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 41 Cr4                          | 1.7035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683-2           | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42CrMoS4                        | 1.7227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683-2           | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42 CrMo 4                       | 1.7225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EN ISO 683 -2          | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B7                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM A 193             | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L7                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM A 320             | +QT                 | BARS           |                                              |                            | 25          | 65                                 |                                                           |                                                |       |                                                                             |            |                                                                                                | a ,b |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B16                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM A 193             | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 75 K + [AISI 4130]              | API6A / ISO 10423 [ASTM A 29]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | +QT                 | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | S 235J2                         | 1.0117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S-235 JR                        | 1.0038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S 275 JR                        | 1.0044                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S 275J2                         | 1.0145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S 355 JR                        | 1.0045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | a    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S 355 J2                        | 1.0577                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIN EN 10025 - 2       | +N-AR               | BARS           |                                              |                            | 20          | 120                                |                                                           |                                                |       |                                                                             |            |                                                                                                | A    |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | <div style="display: flex; justify-content: space-between;"> <div> +AT = solution annealed<br/> +AR = as rolled<br/> +M = thermo mechanical treated<br/> <br/> +N = normalized or normalizing formed </div> <div> +NT = normalized and tempered<br/> +QT = quenched and tempered<br/> +S = soft annealed<br/> <br/> +SR = stress relieved </div> <div> a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary<br/> b = If the size of the product is outside the approved scope acc. to the standard, a PMA is requested </div> </div> |                        |                     |                |                                              |                            |             |                                    |                                                           |                                                |       |                                                                             |            |                                                                                                |      |

| Scope:                                         |                                 | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3 |                        |                |                         | <input checked="" type="checkbox"/> EN 764-4 |       |      |             | <input checked="" type="checkbox"/> AD 2000-Merkblatt W 0 |           |                                                                    |                                            |
|------------------------------------------------|---------------------------------|----------------------------------------------------------------------------|------------------------|----------------|-------------------------|----------------------------------------------|-------|------|-------------|-----------------------------------------------------------|-----------|--------------------------------------------------------------------|--------------------------------------------|
| Certificate holder (Manufacturer of materials) |                                 |                                                                            |                        |                | Manufacturing plant     |                                              |       |      | Nationality |                                                           | Page No.: | 2                                                                  | TÜV Rheinland<br>Industrie Service<br>GmbH |
| Company Name:                                  |                                 | SIDENOR ACEROS ESPECIALES, S.L.U                                           |                        |                | PLANT BASAURI           |                                              |       |      | E           |                                                           | of :      | 4                                                                  |                                            |
| Location:                                      |                                 | E 48970 BASAURI                                                            |                        |                |                         |                                              |       |      |             |                                                           | Date:     | 10.03.2026                                                         |                                            |
|                                                |                                 |                                                                            |                        |                |                         |                                              |       |      |             |                                                           | Rev.:     | 12                                                                 |                                            |
| Cur -                                          | Materials-term<br>Materials-No. |                                                                            | Material Specification | Delivery Cond. | Article Type of Product | Dimensions                                   |       |      |             | Weight max                                                |           | Technical Specifications Requirements<br><br>Technical Regulations | Remarks                                    |
|                                                |                                 |                                                                            |                        |                |                         | Thick-ness mm                                |       | Ø mm |             | 1=t / 2=kg                                                |           |                                                                    |                                            |
|                                                |                                 |                                                                            |                        |                |                         | from                                         | Up to | from | Up to       | ↓                                                         | res ult   |                                                                    |                                            |
| 1                                              | 2                               |                                                                            | 3                      | 4              | 5                       | 6a                                           | 6b    | 7a   | 7b          | 8a                                                        | 8b        | 9                                                                  | 10                                         |
| 12                                             | X 8CrNiS 18-9                   | 1.4305                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 20 Cr 13                      | 1.4021                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 20 Cr 13                      | 1.4021                                                                     | DIN EN 10088 - 3       | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 6CrNiMoTi 17-12-2             | 1.4571                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 2CrNiMo 17-12-2               | 1.4404                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 5CrNi 18-10                   | 1.4301                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X 6CrNiTi 18-10                 | 1.4541                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | X5CrNiMo 17-12-2                | 1.4401                                                                     | DIN EN 10088 - 3       | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
| 13                                             | 304, 304L                       | S30400S30403                                                               | ASTM 479               | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a ,b                                       |
|                                                | 316, 316L                       | S31600, 31603                                                              | ASTM 479               | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | 316Ti                           | S31635                                                                     | ASTM 479               | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a ,b                                       |
|                                                | 309 H                           | S 30909                                                                    | ASTM 479               | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a , b                                      |
|                                                | 321                             | S 30700                                                                    | ASTM 479               | +AT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a ,b                                       |
| 14                                             | F5                              | 182 K42544                                                                 | ASTM A182/ ASME SA182  | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | F9                              | 182 K90941                                                                 | ASTM A182/ ASME SA182  | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | F11                             | 182 K 11597                                                                | ASTM A182/ ASME SA182  | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | F22                             | 182 K21590                                                                 | ASTM A182/ ASME SA182  | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |
|                                                | F91                             | 182 K90901                                                                 | ASTM A182/ ASME SA182  | +QT            | BARS                    |                                              |       | 20   | 120         |                                                           |           |                                                                    | a                                          |



|         |                                       |                               |                                                                                                       |
|---------|---------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Remarks | +AT = solution annealed               | +NT = normalized and tempered | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary                           |
|         | +AR = as rolled                       | +QT = quenched and tempered   | b = If the size of the product is outside the approved scope acc. to the standard, a PMA is requested |
|         | +M = thermo mechanical treated        | +S = soft annealed            |                                                                                                       |
|         | +N = normalized or normalizing formed | +SR = stress relieved         |                                                                                                       |