

|                                                                   |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
|-------------------------------------------------------------------|--|--------|--|-----------------|--|----------|--|-------------------|--|-------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------|--|----------------|--|--------------------------------------------------------------|--|-----------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|---------------|--|------------|--|------------------------------------------------|--|---------------------------------------------------------|--|-----------------------------------------------|--|------|--|--|--|--|--|--|--|
| Inspection certificate<br>EN 10 204 - 3.1                         |  |        |  |                 |  |          |  |                   |  | A02                                                                                                   |  | Issuing department<br>Quality inspection                        |  | A05            |  | Purchaser order no<br>1110093                                |  | A07             |  | Our order no<br>10260790-10                                                                                                           |  | A08          |  | Invoice no    |  | A19        |  | Certificate no and date<br>16261194 2016-10-28 |  | A03                                                     |  | SSAB EMEA AB, SE-613 80 OXELÖSUND, Sweden A01 |  |      |  |  |  |  |  |  |  |
| Purchaser<br>OY Kontino Ab<br>PL27<br>01301 Vanlaa<br>Finland     |  |        |  |                 |  |          |  |                   |  | A11<br>25015                                                                                          |  | Product<br>Structural steel                                     |  | B01            |  | Marking (Stamping)<br>Steel grade, Manufacturer, MATERIAL ID |  | B06             |  | Customer marks                                                                                                                        |  | B15          |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Quantity                                                          |  | B08    |  | Dimensions [mm] |  | B09-B11  |  | Weight [kg]       |  | B12                                                                                                   |  | Deliv. Cond.                                                    |  | B04            |  | Internal code                                                |  | B16             |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| 1                                                                 |  | T 12   |  | W 2500          |  | L 6000   |  | 1413              |  |                                                                                                       |  | Q                                                               |  |                |  | 23341                                                        |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Consignee<br>OY Kontino Ab Hakintie 6 01380 Vanlaa Finland        |  |        |  |                 |  |          |  |                   |  | A06                                                                                                   |  | Standard/rules<br>OX STRENGTH 700<br>Steel grade STRENGTH 700 E |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  | B02          |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| MATERIAL ID<br>120010-895800                                      |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  | B07                                                                                                                                   |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Chemical composition                                              |  |        |  |                 |  |          |  |                   |  | C71-C92                                                                                               |  |                                                                 |  |                |  |                                                              |  |                 |  | Carbon equivalent etc<br>CEV (EW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15<br>C14 = CET = C + (Mn+Mo)/10 + (Cr+Cu)/20 + Ni/40<br>C83-C99 |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Heat no                                                           |  | C      |  | Si              |  | Mn       |  | P                 |  | S                                                                                                     |  | Cr                                                              |  | Ni             |  | Mo                                                           |  | V               |  | Ti                                                                                                                                    |  | Cu           |  | Al            |  | Nb         |  | B                                              |  | N                                                       |  | EW                                            |  | C14  |  |  |  |  |  |  |  |
| 120010                                                            |  | .14    |  | .30             |  | 1.14     |  | .010              |  | .002                                                                                                  |  | .30                                                             |  | .05            |  | .171                                                         |  | .014            |  | .006                                                                                                                                  |  | .01          |  | .038          |  | .001       |  | .002                                           |  | .003                                                    |  | .43                                           |  | .285 |  |  |  |  |  |  |  |
| Testtype                                                          |  | C04    |  | Millcode        |  | C00      |  | Specimen position |  | C01                                                                                                   |  | Direc- tion                                                     |  | C02            |  | Treat- ment                                                  |  | B05             |  | Specimen type                                                                                                                         |  | C10          |  | Temp [degr C] |  | C03        |  | Test results                                   |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Impact test                                                       |  | 651349 |  |                 |  | Top end  |  |                   |  | Transvers                                                                                             |  | Delivery condition                                              |  | Charpy-V 10x10 |  | -40                                                          |  |                 |  | C42 E [J]                                                                                                                             |  | 145          |  | C42 E [J]     |  | 96         |  | C43 Ave [J]                                    |  | 117                                                     |  | 112466                                        |  |      |  |  |  |  |  |  |  |
| Tensile Test                                                      |  | 651365 |  |                 |  | Tail end |  |                   |  | Transvers                                                                                             |  | Delivery condition                                              |  | Rectangular    |  |                                                              |  | C11 Rp0.2 [MPa] |  | 787                                                                                                                                   |  | C12 Rm [MPa] |  | 839           |  | C13 A5 [%] |  | 17                                             |  |                                                         |  | Kontino Oy Ab                                 |  |      |  |  |  |  |  |  |  |
| B02: EN 10025-6/S690QL                                            |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| EN 10025-6, OPTION 30.                                            |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| ALSO MEETS REQUIREMENTS OF WELDOX 700E                            |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Customer article no: 2293                                         |  |        |  |                 |  |          |  |                   |  |                                                                                                       |  |                                                                 |  |                |  |                                                              |  |                 |  |                                                                                                                                       |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| This certificate is produced with EDP and valid without signature |  |        |  |                 |  |          |  |                   |  | Z02                                                                                                   |  |                                                                 |  |                |  |                                                              |  |                 |  | A04                                                                                                                                   |  |              |  |               |  |            |  |                                                |  |                                                         |  |                                               |  |      |  |  |  |  |  |  |  |
| Quality Inspection Department/ R Tschernjock / A Backlund         |  |        |  |                 |  |          |  |                   |  | It is hereby certified that the material described above complies with the requirements of the order. |  |                                                                 |  |                |  |                                                              |  |                 |  | Z01                                                                                                                                   |  |              |  |               |  |            |  |                                                |  | A02                                                     |  |                                               |  |      |  |  |  |  |  |  |  |
| OX                                                                |  |        |  |                 |  |          |  |                   |  | CE                                                                                                    |  |                                                                 |  |                |  |                                                              |  |                 |  | 10 0045-CPD-0637 www.ssab.com/downloads                                                                                               |  |              |  |               |  |            |  |                                                |  | STRENGTH <sup>TM</sup> PERFORMANCE STEEL www.strenx.com |  |                                               |  |      |  |  |  |  |  |  |  |