

SSAB EMEA AB, SE-781 84 BORLÄNGE, Sweden

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| Inspection certificate EN 10 204 - 3.1 | A02 | Issuing department Quality inspection | A05 | Purchaser order no st#27932 | A07 | Our order no 807866-4 | A08 | Invoice no 2609629 | A19 | Certificate no and date 14989221 2014-08-20 | A03 |
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| Purchaser ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND | A11 | Product HR pickled wide strip in coils | B01 | Marking Manufacturer, MATERIAL ID | B06 | Standard/rules EN 10149-2 | B02 | | |
| | 24574 | Quantity 1 | B08 | Dimensions [mm] T 8 W 1500 L 0 | B09-B11 | Weight [kg] 26850 | B12 | Deliv. Cond. B04 | Internal code B16 |
| | | Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND | A06 | Customer marks | B15 | | | | |

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| MATERIAL ID 29-1110-579788 | B07 |
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| Chemical composition | C71-C92 | Carbon equivalent etc | C93-C99 | | | | | | | | | | | | | | |
| Heat no 29-1110 | C .070 | Si .01 | Mn .59 | P .009 | S .003 | Cr .03 | Ni .03 | Mo .00 | V .01 | Ti .00 | Cu .01 | Al .043 | Nb .033 | B .0000 | N .003 | Cekv .18 | Cekv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5 |

| Testtype | Millcode | Specimen position | Direction | Treatment | Specimen type | Temp [degr C] | Test results | | | | | | |
|--------------|----------|-------------------|--------------|--------------------|--------------------|---------------|---------------------------------|------------------------|-----------------------|-----------------------|--|--|--|
| Tensile test | BFG450 | Top end | Longitudinal | Delivery condition | Rectangular 380x40 | | C11 Reh [MPa] 380 | C12 Rm [MPa] 466 | C13 A5 [%] 33,0 | | | | |
| Impact test | BFG451 | Top end | Longitudinal | Delivery condition | Charpy-V 10x7.5 | -20 | C42 E [J] 61 | C42 E [J] 175 | C42 E [J] 111 | C43 Ave [J] 116 | | | |
| Bend test | BFG452 | Top end | Transvers | Delivery condition | Rectangular 300x25 | | C50 The test is satisfactory | | | | | | |

Production time: 2014-08-17

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| It is hereby certified that the material described above complies with the requirements of the order. | Z02 | This certificate is produced with EDP and valid without signature | Z01 | A22 | A04 |
| | | Material Testing/ L Smedh/ M Eriksson/ L Söderqvist | | | |