

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Tilaus nro Order No.
4501324959

Tilausvahvistus Order Confirmation
78737K

Vastaanottaja Consignee
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
21.12.2021
Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laivaus Shipping

Laatumerkintä Quality Marking
S355K2 N S355J2 N

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
PART DELIVERY

Sulatus nro levy nro Cast No. Plate No.
XXXXX XXX XX XX

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
CUT LENGTHS
Laji Grade
MULTISTEEL/S355K2+N EN 10025-2:2019
Laatuselvitys Quality Specifications
STRUCTURAL STEEL,MEETS REQ. OF EN 10025-2 S355K2/J2

Toleranssit Tolerances
EN 10051:2010

Tekniset vaatimukset ja/tai viralliset määräykset Technical terms of Delivery and/or Official Regulations

| Positio Item | Mitat mm Dimensions mm | Merkki Marke | Kpl Pcs | Paino kg Weight kg | Sulatus levy nro Cast plate No | SP nro SP No | UT | MT | Turvamerkki Safetymark |
|--|---------------------------|---------------------------------|------------|-----------------------|-----------------------------------|-----------------|----|----|---------------------------|
| HOT ROLLED STEEL IN BUNDLES CUT LENGTHS MILL EDGES | | | | | | | | | |
| FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.;CEV MAX 0,43%,MEETS REQ.OF EN10025-2 S355J0 | | | | | | | | | |
| 030 | 5.00 X 1500 X | 3000 4501324959 A005.A01600 STD | 144 | 25485 | 86493 041 | 041 | | | |
| FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.;CEV MAX 0,43%,MEETS REQ.OF EN10025-2 S355J0 | | | | | | | | | |
| 040 | 8.00 X 1500 X | 3000 4501324959 A005.A01639 STD | 91 | 25745 | 86493 031 | 031 | | | |
| | | | *** | 235 | 51230 | | | | |

Raah Steel Works

Täten todistamme, että toimitus on tilausvahvistuksen mukainen.
We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

Testaus ja tarkastus Testing and Inspection

Minna Valkama

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: HÄMEENLINNA

Osoite Address: PL 93, P.O Box 93
FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

| Sulatus nro Cast No Schmelzen Nr. No de coulén № Плавки | Koe nro Test No Prüf Nr. Essai No № Пробы | Positio Item Pos. Poste Поз. | Cekv Ceq Caq Cég Cekv | Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ плавки % (*=ppm) | | | | | | | | | | | | Päivämäärä Date Datum Date Дата | |
|---|---|--|-----------------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|---------------------------------|-----|
| | | | | C | SI | MN | P | S | AL | NB | V | CU | CR | NI | MO | 21.12.2021 | TPE |
| 86493 | | 030 | .41 | .152 | .20 | 1.44 | .011 | .006 | .038 | .015 | .010 | .011 | 0.05 | 0.04 | .004 | | |
| 86493 | | 040 | .41 | .152 | .20 | 1.44 | .011 | .006 | .038 | .015 | .010 | .011 | 0.05 | 0.04 | .004 | | |

CEQ=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection Испытание и контроль качества
Prüfung und Kontrolle Essais et Contrôle

Steel manufactured and supplied by Raahe Steel Works is free from radiation.
Производимая на металлургическом комбинате «Raahe Steel Works» и поставляемая
заказчику сталь не излучают радиации.

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative Уполномоченный инспектор
Sachverständiger Inspecteur autorisé

Yhtiön nimi Company Name: SSAB Europe Oy Osoite Address: PL 93, P.O Box 93
Kotipaikka Registered Office: HÄMEENLINNA FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

Declaration of performance
(according to EU No 305/2011 and 574/2014)

DoP id. S011_02

Hot rolled strip product S355K2 / 1.0596
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

SSAB
P.O Box 70
101 20 Stockholm
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T: +46 8 45 45 700
Email: info@ssab.com
Website: ssab.com

TÜV NORD Systems GmbH & Co. KG
Grosse Bahnstrasse 31
D-22525 Hamburg
Germany
T: +49 40 8557 2368

Assessment system and verification for constancy
of performance
System 2+

The performance of the product identified in this document is
in conformity with the set of declared performance. This declaration of performance
is issued in accordance with Regulations (EU) No 305/2011 and 574/2014,
under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Jarkko Matkala
Vice President, hot rolled plate and strip products,
SSAB Europe Oy, Raahе Steelworks
Raahе 2015-06-09



05

0045-CPR-0573

EN 10025-1:2004

| Dop id: S011_02 EN 10025-2:2019 | | Performance | | | | Harmonized technical specification | |
|---|------------------------|--------------------------------|-------------------|-----------------|----------|------------------------------------|----------|
| S355K2 | Thickness | Tolerances for nominal width w | | | | EN 10025-1:2004 | |
| Tolerances on dimensions and shapes. | Nominal thickness (mm) | w ≤ 1200 | 1200 < w ≤ 1500 | 1500 < w ≤ 1800 | w > 1800 | | |
| | | | | | | | t ≤ 2,00 |
| | Thickness | 2,00 < t ≤ 2,50 | ± 0,21 | ± 0,24 | ± 0,26 | | ± 0,29 |
| | | 2,50 < t ≤ 3,00 | ± 0,23 | ± 0,25 | ± 0,28 | | ± 0,30 |
| | | 3,00 < t ≤ 4,00 | ± 0,25 | ± 0,28 | ± 0,30 | | ± 0,31 |
| | | 4,00 < t ≤ 5,00 | ± 0,28 | ± 0,30 | ± 0,32 | | ± 0,33 |
| | | 5,00 < t ≤ 6,00 | ± 0,30 | ± 0,32 | ± 0,33 | | ± 0,36 |
| | | 6,00 < t ≤ 8,00 | ± 0,33 | ± 0,35 | ± 0,36 | | ± 0,40 |
| | | 8,00 < t ≤ 10,00 | ± 0,37 | ± 0,38 | ± 0,39 | | ± 0,46 |
| | | 10,00 < t ≤ 12,50 | ± 0,40 | ± 0,41 | ± 0,43 | | ± 0,49 |
| | | 12,50 < t ≤ 15,00 | ± 0,43 | ± 0,44 | ± 0,46 | | ± 0,53 |
| | | 15,00 < t ≤ 25,00 | ± 0,46 | ± 0,48 | ± 0,52 | | ± 0,58 |
| Width | Nominal width | Tolerances | | | | | |
| | | Mill edges | | Trimmed edges* | | | |
| | w | Lower | Upper | Lower | Upper | | |
| | w ≤ 1 200 | 0 | +20 | 0 | +3 | | |
| | 1 200 < w ≤ 1 850 | 0 | +20 | 0 | +5 | | |
| | w > 1 850 | 0 | +25 | 0 | +6 | | |
| * Tolerances for trimmed edges apply to products with nominal thickness t ≤ 10 mm; for nominal thickness t > 10 mm the upper tolerances shall be agreed at the time of enquiry and order. | | | | | | | |
| Length | Nominal length | Tolerances | | | | | |
| | | Lower | | Upper | | | |
| | l < 2 000 | 0 | | +10 | | | |
| | 2 000 ≤ l < 8 000 | 0 | | +0,005 x l | | | |
| l ≥ 8 000 | 0 | | +40 | | | | |
| Flatness | Nominal thickness | Tolerances | | | | | |
| | | w ≤ 1 200 | 1 200 < w ≤ 1 500 | w > 1500 | | | |
| | t ≤ 25,00 | 18 | 23 | 28 | | | |

| | | | |
|-----------------------------------|--------------|-----------------|----------------|
| Yield strength | thickness mm | min (Mpa) | max (Mpa) |
| | ≤ 16 | 355 | |
| | > 16 ≤ 25 | 345 | |
| Tensile strength | thickness mm | min (Mpa) | max (Mpa) |
| | < 3 | 510 | 680 |
| | ≥ 3 ≤ 25 | 470 | 630 |
| Elongation | thickness mm | min % | |
| | > 1.5 ≤ 2 | 14 | |
| | > 2 ≤ 2.5 | 15 | |
| | > 2.5 < 3 | 16 | |
| | ≥ 3 ≤ 25 | 20 | |
| Impact strength | thickness mm | temperature, °C | min. energy, J |
| | ≤ 25 | -20 | 40 |
| Weldability CEV | thickness mm | CEV max % | |
| | ≤ 25 | 0.45 | |
| Durability (chemical composition) | element | max % | |
| | C | 0.20 | |
| | Si | 0.55 | |
| | Mn | 1.60 | |
| | P | 0.025 | |
| | S | 0.025 | |
| | N | | |
| | Cu | 0.55 | |
| | Ni | 0.42 | |
| | Cr | 0.29 | |
| Mo | 0.11 | | |

Declaration of performance
(according to EU No 305/2011 and 574/2014)

DoP id. S010_02

Hot rolled strip product S355J2 / 1.0577
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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Website: ssab.com

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Grosse Bahnstrasse 31
D-22525 Hamburg
Germany
T: +49 40 8557 2368

Assessment system and verification for constancy
of performance
System 2+

The performance of the product identified in this document is
in conformity with the set of declared performance. This declaration of performance
is issued in accordance with Regulations (EU) No 305/2011 and 574/2014,
under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Jarkko Matkala
Vice President, hot rolled plate and strip products,
SSAB Europe Oy, Raahе Steelworks
Raahе 2015-06-09



05

0045-CPR-0573
EN 10025-1:2004

| | | | | | | | |
|---|------------------------|--------------------------------|-------------------|-----------------|----------|------------------------------------|----------|
| Dop id: S010_02 EN 10025-2:2019 | | Performance | | | | Harmonized technical specification | |
| S355J2 | Thickness | Tolerances for nominal width w | | | | EN 10025-1:2004 | |
| Tolerances on dimensions and shapes. | Nominal thickness (mm) | w ≤ 1200 | 1200 < w ≤ 1500 | 1500 < w ≤ 1800 | w > 1800 | | |
| | | | | | | | t ≤ 2,00 |
| | Thickness | 2,00 < t ≤ 2,50 | ± 0,21 | ± 0,24 | ± 0,26 | | ± 0,29 |
| | | 2,50 < t ≤ 3,00 | ± 0,23 | ± 0,25 | ± 0,28 | | ± 0,30 |
| | | 3,00 < t ≤ 4,00 | ± 0,25 | ± 0,28 | ± 0,30 | | ± 0,31 |
| | | 4,00 < t ≤ 5,00 | ± 0,28 | ± 0,30 | ± 0,32 | | ± 0,33 |
| | | 5,00 < t ≤ 6,00 | ± 0,30 | ± 0,32 | ± 0,33 | | ± 0,36 |
| | | 6,00 < t ≤ 8,00 | ± 0,33 | ± 0,35 | ± 0,36 | | ± 0,40 |
| | | 8,00 < t ≤ 10,00 | ± 0,37 | ± 0,38 | ± 0,39 | | ± 0,46 |
| | | 10,00 < t ≤ 12,50 | ± 0,40 | ± 0,41 | ± 0,43 | | ± 0,49 |
| | | 12,50 < t ≤ 15,00 | ± 0,43 | ± 0,44 | ± 0,46 | | ± 0,53 |
| | | 15,00 < t ≤ 25,00 | ± 0,46 | ± 0,48 | ± 0,52 | | ± 0,58 |
| | Width | Nominal width | Tolerances | | | | |
| Mill edges | | | Trimmed edges* | | | | |
| w | | Lower | Upper | Lower | Upper | | |
| w ≤ 1 200 | | 0 | +20 | 0 | +3 | | |
| 1 200 < w ≤ 1 850 | | 0 | +20 | 0 | +5 | | |
| w > 1 850 | | 0 | +25 | 0 | +6 | | |
| * Tolerances for trimmed edges apply to products with nominal thickness t ≤ 10 mm; for nominal thickness t > 10 mm the upper tolerances shall be agreed at the time of enquiry and order. | | | | | | | |
| Length | Nominal length | Tolerances | | | | | |
| | | Lower | | Upper | | | |
| | l < 2 000 | 0 | | +10 | | | |
| | 2 000 ≤ l < 8 000 | 0 | | +0,005 x l | | | |
| l ≥ 8 000 | 0 | | +40 | | | | |
| Flatness | Nominal thickness | Tolerances | | | | | |
| | | w ≤ 1 200 | 1 200 < w ≤ 1 500 | w > 1500 | | | |
| | t ≤ 25,00 | 18 | 23 | 28 | | | |

| | | | |
|-----------------------------------|--------------|-----------------|----------------|
| Yield strength | thickness mm | min (Mpa) | max (Mpa) |
| | ≤ 16 | 355 | |
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| Elongation | thickness mm | min % | |
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| | > 2.5 < 3 | 16 | |
| | ≥ 3 ≤ 25 | 20 | |
| Impact strength | thickness mm | temperature, °C | min. energy, J |
| | ≤ 25 | -20 | 27 |
| Weldability CEV | thickness mm | CEV max % | |
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| | C | 0.20 | |
| | Si | 0.55 | |
| | Mn | 1.60 | |
| | P | 0.025 | |
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| | N | | |
| | Cu | 0.55 | |
| | Ni | 0.42 | |
| | Cr | 0.29 | |
| Mo | 0.11 | | |