

EN 10 204-3.1 (2004)

A 79123 -003

03.07.2023

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND

Tilausvahvistus Order Confirmation
79123

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

Päivämäärä Date
04.07.2023

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
S355K2 N S355J2 N

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
REST 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

| | | | | | | | | | | |
|-----|---------------|------|------------|-------------|-----|-----|-------|-------|-----|-----|
| 020 | 5.00 X 1500 X | 3000 | 4501434710 | A005.A01600 | STD | 149 | 26430 | 36950 | 031 | 031 |
|-----|---------------|------|------------|-------------|-----|-----|-------|-------|-----|-----|

| | | |
|---|-----|-------|
| * | 149 | 26430 |
|---|-----|-------|

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
FI-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Tilaus nro Order No.
4501434710

Tilausvahvistus Order Confirmation
79123

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

Päivämäärä Date
04.07.2023
Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
STRENX 650 MC D

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
REST DELIVERY

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

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
CUT LENGTHS
Laji Grade
STRENX 650 MC D
Laatuselvitys Quality Specifications
HIGH STRENGTH FORMABLE STEEL, MEETS REQ. OF EN10149-2 S650MC

Toleranssit Tolerances
SSAB TOLERANCE EN10051, THICKN. 1/2 CAT D

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 | | | | | | | | | |
| SI MAX 0.21%, IMPACT TEST -20C MIN 40J LONGIT. | | | | | | | | | |
| 030 | 8.00 X 1500 X | 2100 4501434710 A005.A13227 | 82 | 16305 | 36835 | 011 | 011 | | |
| | | * | 82 | 16305 | | | | | |
| | | ** | 231 | 42735 | | | | | |
| | | *** | 231 | 42735 | | | | | |

Raah Steel Works

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We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

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Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

| Sulatus nro Cast No Schmelzen Nr. No de coulén | Koe nro Test No Prüf Nr. Essai No | Positio Item Pos. Poste | Cekv Ceq Caq Cég Cekv | Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*=ppm) | | | | | | | | | | | | Päivämäärä Date Datum Date | | |
|---|--|----------------------------------|-----------------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|----------------------------|-----|--|
| | | | | C | SI | MN | P | S | AL | NB | V | CU | CR | NI | MO | 04.07.2023 | TML | |
| 36950 | | 020 | .40 | .154 | .19 | 1.39 | .009 | .004 | .031 | .016 | .013 | .016 | 0.05 | 0.05 | .006 | | | |

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

Raah Steel Works

Testaus ja tarkastus Testing and Inspection
Prüfung und Kontrolle Essais et Contrôle

SSAB Europe Oy, Raah Steel Works testing laboratories T002 and T010 are accredited by the FINAS accreditation service, accreditation requirement SFS-EN ISO/IEC 17025.

Steel manufactured and supplied by Raah Steel Works is free from radiation.

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative
Sachverständiger Inspector autorisé

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

Osoite Address: PL 93, P.O Box 93
FI-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 | Koe nro Test No Prüf Nr. Essai No | Positio Item Pos. Poste | Cekv Ceq Caq Cég Cekv | Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*=ppm) | | | | | | | | | | | | | | Päivämäärä Date Datum Date | |
|---|--|----------------------------------|-----------------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------------|-----|
| | | | | C | SI | MN | P | S | AL | NB | V | TI | CU | CR | NI | MO | B | 04.07.2023 | TML |
| 36835 | | 030 | .35 | .056 | .16 | 1.65 | .008 | .003 | .029 | .046 | .014 | .087 | .011 | 0.04 | 0.03 | .002 | .0005 | | |

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

Raah Steel Works

Testaus ja tarkastus Testing and Inspection
Prüfung und Kontrolle Essais et Contrôle

SSAB Europe Oy, Raah Steel Works testing laboratories T002 and T010 are accredited by the FINAS accreditation service, accreditation requirement SFS-EN ISO/IEC 17025.

Steel manufactured and supplied by Raah Steel Works is free from radiation.

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Sachverständiger Inspector autorisé

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FI-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 UK CPR 2020 No 1359)

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
SWEDEN
T: +46 8 45 45 700
Email: info@ssab.com
Website: ssab.com

LRQA Verification Limited (Reg. No. 4929226)
Registered office
1 Trinity Park, Bickenhill Lane
Birmingham
B37 7ESA

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, Raahe Steelworks
Raahe 2015-06-09



05

0038/CPR/PRJ11100341405/ 01

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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101 20 Stockholm
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Grosse Bahnstrasse 31
D-22525 Hamburg
Germany
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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 | |
| | > 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 | 27 |
| 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 UK CPR 2020 No 1359)

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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P.O Box 70
101 20 Stockholm
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Email: info@ssab.com
Website: ssab.com

LRQA Verification Limited (Reg. No. 4929226)
Registered office
1 Trinity Park, Bickenhill Lane
Birmingham
B37 7ESA

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
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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, Raahe Steelworks
Raahe 2015-06-09

**UK
CA**

05

0038/CPR/PRJ11100341405/ 01

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 | |
| | > 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 | 27 |
| 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 | | |