

Tilaja Purchaser
KONTINO OY AB
PL 27
01301 VANTAA FINLAND

Tilausvahvistus Order Confirmation
10469

Vastaanottaja Consignee
OY KONTINO AB
HAKINTIE 6
01380 VANTAA FINLAND
Asiakkaan merkki Shipping mark
1112523

Päivämäärä Date
28.02.2019

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laivaus Shipping

Laatumerkintä Quality Marking
S355ML

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
PART DELIVERY

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

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
HEAVY PLATES
Laji Grade
S355ML EN 10025-4:2004
Laatuseelvitys Quality Specifications
HIGH STRENGTH FORMABLE STEEL FOR LASER AND PLASMA CUTTING

Toleranssit Tolerances
SSAB TOLERANCE EN 10029, THICKN. 3/4 CL A

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 |
|-----------------|---------------------------|-----------------|------------|-----------------------|-----------------------------------|-----------------|----|----|
|-----------------|---------------------------|-----------------|------------|-----------------------|-----------------------------------|-----------------|----|----|

**HOT ROLLED STEEL PLATES
IN BUNDLES**

CEV MAX 0.38%, IMPACT TEST AT -50 C MIN 40J, SI MAX 0.03%.
SURFACE CONDITION EN 10 163-2:2005 CLASS A3

| | | | | | | | | | |
|-----|--------------|---|------|----------|---|------|-------|-----|-----|
| 030 | 25.00 X 1500 | X | 3000 | XR355258 | 8 | 7200 | 32220 | 052 | 052 |
| 030 | 25.00 X 1500 | X | 3000 | | 7 | 6300 | 32221 | 043 | 043 |

*** 15 13500

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 | TI | CU | CR | NI | MO | N | B | 28.02.2019 | | | | SMO |
| 32220 | | 030 | .36 | .090 | .02 | 1.48 | .010 | .002 | .029 | .042 | .048 | .002 | .016 | 0.04 | 0.04 | .003 | .006 | .0002 | | | | | |
| 32221 | | 030 | .36 | .090 | .01 | 1.49 | .011 | .003 | .031 | .044 | .049 | .002 | .016 | 0.04 | 0.04 | .004 | .004 | .0002 | | | | | |

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

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

DoP id. P023_01

Hot rolled Plate product S355ML / 1.8834
according to
EN 10025-4:2004
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

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: P023_01 | | Performance | | Harmonized technical specification |
|--|-------------------------------|---|-------|------------------------------------|
| S355ML | Thickness | Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated) | | EN 10025-1:2004 |
| Tolerances on dimensions and shapes. | Nominal thickness (mm) | Lower | Upper | |
| | $3 \leq t < 5$ | -0,3 | +0,7 | |
| | $5 \leq t < 8$ | -0,4 | +0,8 | |
| | $8 \leq t < 15$ | -0,5 | +0,9 | |
| | $15 \leq t < 25$ | -0,6 | +1,0 | |
| | $25 \leq t < 40$ | -0,7 | +1,3 | |
| | $40 \leq t < 80$ | -0,9 | +1,7 | |
| | $80 \leq t < 150$ | -1,1 | +2,1 | |
| $150 \leq t < 250$ | -1,2 | +2,4 | | |
| Width | Nominal thickness | Tolerances | | |
| | | Lower | Upper | |
| | $t < 40$ | 0 | +20 | |
| | $40 \leq t < 150$ | 0 | +25 | |
| | $150 \leq t \leq 400$ | 0 | +30 | |
| Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order | | | | |
| Length | Nominal length | Tolerances | | |
| | l | Lower | Upper | |
| | $l < 4000$ | 0 | +20 | |
| | $4000 \leq l < 6000$ | 0 | +30 | |
| | $6000 \leq l < 8000$ | 0 | +40 | |
| | $8000 \leq l < 10\ 000$ | 0 | +50 | |
| | $10\ 000 \leq l < 15\ 000$ | 0 | +75 | |
| | $15\ 000 \leq l \leq 20\ 000$ | 0 | +100 | |
| Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order. | | | | |
| Flatness | Nominal thickness t | Measuring length | | |
| | t | 1000 | 2000 | |
| | $3 \leq t < 5$ | 9 | 14 | |
| | $5 \leq t < 8$ | 8 | 12 | |
| | $8 \leq t < 15$ | 7 | 11 | |
| | $15 \leq t < 25$ | 7 | 10 | |
| | $25 \leq t < 40$ | 6 | 9 | |
| | $40 \leq t < 250$ | 5 | 8 | |

| | | | |
|-----------------------------------|------------------|-----------------|----------------|
| Yield strength | thickness mm | min (Mpa) | max (Mpa) |
| | ≤ 16 | 355 | |
| | $> 16 \leq 40$ | 345 | |
| | $> 40 \leq 63$ | 335 | |
| | $> 63 \leq 80$ | 325 | |
| | $> 80 \leq 100$ | 325 | |
| | $> 100 \leq 120$ | 320 | |
| Tensile strength | thickness mm | min (Mpa) | max (Mpa) |
| | ≤ 40 | 470 | 630 |
| | $> 40 \leq 63$ | 450 | 610 |
| | $> 63 \leq 80$ | 440 | 600 |
| | $> 80 \leq 100$ | 440 | 600 |
| | $> 100 \leq 120$ | 430 | 590 |
| Elongation | thickness mm | min % | |
| | | 22 | |
| Impact strength | thickness mm | temperature, °C | min. energy, J |
| | | -50 | 27 |
| Weldability CEV | thickness mm | CEV max % | |
| | ≤ 16 | 0.39 | |
| | $> 16 \leq 40$ | 0.39 | |
| | $> 40 \leq 63$ | 0.40 | |
| | $> 63 \leq 120$ | 0.45 | |
| | $> 120 \leq 150$ | 0.45 | |
| Durability (chemical composition) | element | Value | |
| | C, max | 0.14 | |
| | Si, max | 0.50 | |
| | Mn, max | 1.60 | |
| | P, max | 0.025 | |
| | S, max | 0.020 | |
| | Nb, max | 0.05 | |
| | V, max | 0.10 | |
| | Al, min | 0.02 | |
| | Ti, max | 0.05 | |
| | Cr, max | 0.30 | |
| | Ni, max | 0.50 | |
| | Mo, max | 0.10 | |
| | Cu, max | 0.55 | |
| N, max | 0.015 | | |