

Tilaja Purchaser  
KONTINO OY AB  
PL 27  
01301 VANTAA FINLAND  
Tilaus nro Order No.  
1112363

Tilausvahvistus Order Confirmation  
29545

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

Päivämäärä Date  
11.12.2018

Vaimistajan merkki  
Mark of the Manufacturer



Todistus Certificate  
31

Laivaus Shipping

Laatumerkintä Quality Marking  
S355ML

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

HEAVY PLATES

Laji Grade

S355ML EN 10025-4:2004

Laatuselvitys Quality Specifications

WELDABLE FINE GRAIN STRUCTURAL STEEL

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

127349



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

020 25.00 X 1500 X 3000 XR355258

10 9000 28468 022 022

020 25.00 X 1500 X 3000

10 9000 28468 023 022

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 30.00 X 1500 X 3000 XR355308

9 9720 28468 021 021

\*\*\* 29 27720

Kontino Oy Ab

### 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

Vaikutettu tarkastaja Authorized inspection representative



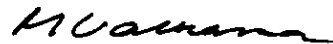
Sulatus nro Cast No Schmelzen Nr. No de coulée № Плавки	Koe nro Test No Prüf Nr. Essai No № Пробыв	Positio Item Pos. Poste Поз.	Cekv Ceq Cdq Ceq Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ пробы % (*-ppm)																Päivämäärä Date Datum Date Дата 11.12.2018	AET
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B			
28468		020	.38	.094	.02	1.52	.014	.002	.041	.046	.050	.001	.011	0.08	0.04	.012	.005	.0002			
28468		030	.38	.094	.02	1.52	.014	.002	.041	.046	.050	.001	.011	0.08	0.04	.012	.005	.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 излучает 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-02101 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. P023\_01

Hot rolled Plate product S355ML / 1.8834  
according to  
EN 10025-4:2004  
for bolted, welded and riveted structures.

SSAB  
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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		Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004	
Tolerances on dimensions and shapes.	Thickness	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)
	$\leq 16$	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)
	$\leq 40$	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 %	
	$\leq 16$	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		

**DISPATCH LIST/PACKING LIST**

Number                      Date                      Loading order number  
 29545 02    10.12.2018    98456  
 Customer's order  
 1112363

Consignee  
**OY KONTINO AB**  
  
**HAKINTIE 6**  
  
**01380 VANTAA FINLAND**

Buyer  
**KONTINO OY AB**  
  
**PL 27**  
  
**01301 VANTAA FINLAND**

Country of origin                      Country of destination  
**FINLAND**                              **FINLAND**

Terms of delivery  
**DAP (INCOTERMS 2010)**  
**HAKKILA**

Mode of delivery  
**TRUCK**  
 Final destination  
**HAKKILA**

Marks and numbers

Number and description of goods                      Weight  
**29 HOT ROLLED STEEL PLATES**                      **27720 KG**

**REST DELIVERY**                      Invoicing weight  
**THEORETICAL**

Item	Quality specification	Charge	Packages	Pcs	Weight kg
	<b>HOT ROLLED STEEL PLATES</b>				
	<b>SSAB LASER 355ML PLUS .</b>				
	<b>XR355258</b>				
020	25.00 1500	3000 28468 022		10	9000
		28468 023		10	9000
			*	20	18000
	<b>XR355308</b>				
030	30.00 1500	3000 28468 021		9	9720
			*	9	9720
	<b>CONSIGNMENT TOTAL</b>		<b>***</b>	<b>29</b>	<b>27720</b>

CN                      ITEMS  
 72085120              020 030

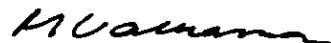
Tilaaaja Purchaser KONTINO OY AB PL 27 01301 VANTAA FINLAND Tilaus nro Order No. 1112363		Vastaanottaja Consignee OY KONTINO AB HAKINTIE 6 01380 VANTAA FINLAND Asiakkaan merkki Shipping mark		Päivämäärä Date 11.12.2018 Valmistajan merkki Mark of the Manufacturer	
Todistus Certificate 31		Laivaus Shipping 29545		Laatu-merkintä Quality Marking LSR 355 ML PLUS	
Toimitustyyppi Delivery type REST DELIVERY		Sulatus nro levy nro Cast No. Plate No. XXXXXX XXX XX XXX		Tarkastajan leima Stamp of Inspector Vastaanottajan leima Stamp of Surveyor Muut leimaukset Other Stamps	
Tuote Product HEAVY PLATES Laji Grade SSAB LASER 355ML PLUS Laatuselvitys 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	

Posiio 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
<b>HOT ROLLED STEEL PLATES</b>								
<b>IN BUNDLES</b>								
CEV MAX 0.38%, IMPACT TEST AT -50 C MIN 40J, SI MAX 0.03%. CORRESPONDS TO EN 10025-4 S355ML								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
020	25.00 X 1500 X	3000 XR355258	10	9000	28468	022	022	
020	25.00 X 1500 X	3000	10	9000	28468	023	022	
CEV MAX 0.38%, IMPACT TEST AT -50 C MIN 40J, SI MAX 0.03%. CORRESPONDS TO EN 10025-4 S355ML								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
030	30.00 X 1500 X	3000 XR355308	9	9720	28468	021	021	
			***	29	27720			

### 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

Valtuutettu tarkastaja Authorized inspection representative

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

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

Puhelin Telephone: 020 5911  
 +358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser  
KONTINO OY AB  
PL 27  
01301 VANTAA FINLAND  
Tilaus nro Order No.  
1112363

Tilausvahvistus Order Confirmation  
29545

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

Päivämäärä Date  
11.12.2018 AET

Valmistajan merkki  
Mark of the Manufacturer



Laji Grade  
SSAB LASER 355ML PLUS

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä  
Oxygen steel, continuous casting

Fully killed, Fine grain practiced

Laatuselvitys Quality Specifications

HIGH STRENGTH FORMABLE STEEL FOR LASER AND PLASMA CUTTING

Pos. Item	Sulatus, k.eri nro Cast. test No	T-tila Cond	Vetokoe Tensile test													Taivutuskoe Bend test		Huom Nb	Päästö Tempering °C								
			K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	RM MPa 2	3	A % 50	80	200	REH / RM	RM * A5	1			RAZ % 2	3	Keskiarvo Average	K5	D = X t			
020	28468 022	TM	51						463	534										25				51	1.0		
030	28468 021	TM	51						477	540										25				51	1.0		

K2: 51=BOTTOM,TRANSV.  
K5: 51=BENDING TEST

TM=THERMOMECH. TREATED

Pos. Item	Sulatus k.eri nro Cast. test No	Iskukoe Impact test					FA %			LE (mm)			Erikoiskokeet Special tests				Huom Nb	Päästö Tempering °C										
		K3	°C	1	2	3	Keskiarvo Average	W (mm)	1	2	3	Keskiarvo Average	1	2	3	Keskiarvo Average			K4	°C	1	2	Keskiarvo Average					
020	28468 022	151	-050	240	266	261	256																					
		151	-020	282	274	300	285																					
030	28468 021	151	-050	237	249	248	245																					
		151	-020	274	275	272	274																					

K3: 151=CH-V/ISO-V(J),10X10,BOTTOM,LONGIT,KV600

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

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Testaus ja tarkastus Testing and Inspection

*Minna Valkama*

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Valtuutettu tarkastaja Authorized inspection representative

RTX87

Yhtiön nimi Company Name: SSAB Europe Oy  
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FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911  
+358 20 5911

Y-tunnus Business ID: 2389445-7




Sulatus no Cast No Schmelzen Nr. No de coulée № Плавки	Koe no Test No Prüf Nr. Essai No № Пробы	Positi Item Pos. Poste Поз.	Cekv Ceq Câq Câq Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ плавки % (*-ppm)															Päivämäärä Date Datum Date Дата 11.12.2018	AET
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B		
28468		020	.38	.094	.02	1.52	.014	.002	.041	.046	.050	.001	.011	0.08	0.04	.012	.005	.0002		
28468		030	.38	.094	.02	1.52	.014	.002	.041	.046	.050	.001	.011	0.08	0.04	.012	.005	.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 излучает радиации.



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**DISPATCH LIST/PACKING LIST**

Number 29545 02 Date 10.12.2018 Loading order number 98456

Customer's order  
1112363

Consignee  
**OY KONTINO AB**  
  
**HAKINTIE 6**  
  
**01380 VANTAA FINLAND**

Buyer  
**KONTINO OY AB**  
  
**PL 27**  
  
**01301 VANTAA FINLAND**

Country of origin **FINLAND** Country of destination **FINLAND**

Terms of delivery  
**DAP (INCOTERMS 2010)**  
**HAKKILA**

Mode of delivery  
**TRUCK**  
  
Final destination  
**HAKKILA**

Marks and numbers

Number and description of goods **29 HOT ROLLED STEEL PLATES** Weight **27720 KG**

REST DELIVERY					Invoicing weight THEORETICAL	
Item	Quality specification		Charge	Packages	Pcs	Weight kg
	<b>HOT ROLLED STEEL PLATES</b>					
	<b>SSAB LASER 355ML PLUS .</b>					
	<b>XR355258</b>					
020	25.00	1500	3000 28468 022		10	9000
			28468 023		10	9000
				*	20	18000
	<b>XR355308</b>					
030	30.00	1500	3000 28468 021		9	9720
				*	9	9720
<b>CONSIGNMENT TOTAL</b>				<b>***</b>	<b>29</b>	<b>27720</b>
<b>CN</b>	<b>ITEMS</b>					
<b>72085120</b>	<b>020 030</b>					