

Tilaja Purchaser KONTINO OY AB PL 27 01301 VANTAA FINLAND	Vastaanottaja Consignee OY KONTINO AB HAKINTIE 6 01380 VANTAA FINLAND	Päivämäärä Date 18.11.2016
Tilaus nro Order No. 1110096	Tilauksen vahvistus Order Confirmation 16778	Valmistajan merkki Mark of the Manufacturer



Todistus Certificate 31	Laivaus Shipping	Laatumerkintä Quality Marking S355MC	Tarkastajan leima Stamp of Inspector
Toimitustyyppi Delivery type PART DELIVERY			Vastaanottajan leima Stamp of Surveyor
Tuote Product HEAVY PLATES			Muut leimaukset Other Stamps

Mxx

S355MC EN 10149-2:2013
Laatuuselyitys Quality Specifications
HIGH YIELD STRENGTH FORMABLE FINE-GRAIN STEEL

112899



Kontino Oy Ab

Positio Item	Mitat mm Dimensions mm	Merkki Mark	Kpl Pcs	Paino kg Weight kg	Salaus levy nro Cast plate No	SP nro SP No	UT UT	MT MT
IMPACT TEST AT -20 DEG. C								
HOT ROLLED STEEL PLATES								
EN 10149-1 OPTION 5								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
010	16.00 X 3000	X	3	6912	62386	014	014	
EN 10149-1 OPTION 5								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
020	20.00 X 3000	X	2	5760	62386	042	042	
020	20.00 X 3000	X	2	5760	62386	052	052	
020	20.00 X 3000	X	2	5760	62386	053	053	
			*	9	24192			

Raabe Steel Works

Testaus ja tarkastus Testing and Inspection

Minna Valkama

Valtuutettu tarkastaja Authorized inspection representative MINNA VALKAMA	Puhelin Telephone: 020 5911 4369	Telekopio Telefax: 020 592 2736	Y-lunnus Business ID: 2389445-7
Yhtöön nimi Company Name: SSAB Europe Oy Kontinon Danesford Office	Osoite Address: PL 93, P.O Box 93 FIN-00004 RAABE		

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.

Tilaja Purchaser KONTINO OY AB PL 27 01301 VANTAA FINLAND		Vastaanottaja Consignee OY KONTINO AB HAKINTIE 6 01380 VANTAA FINLAND		Päivämäärä Date 18.11.2016	
Tilaus nro Order No. 1110096		Tilauksen vahvistus Order Confirmation 16778		Valmistajan merkki Mark of the Manufacturer	
Todistus Certificate 31		Laivaus Shipping		Tarkastajan leima Stamp of Inspector	
Toimitustyyppi Delivery type PART DELIVERY		Sulatus nro levy nro X X X X X X X X X X		Vastaanottajan leima Stamp of Surveyor	
Tuote Product HEAVY PLATES		Toleranssit Tolerances EN 10029:2010 CLASS A		Muut leimaukset Other Stamps	

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 UT	MT MT
IMPACT TEST AT -20 DEG. C								
HOT ROLLED STEEL PLATES								
SI 0.15 - 0.25%, CEV MAX. 0.45%								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
040	40.00 X 2500 X 8000	C4091	1	6400	62772 023	023		
040	40.00 X 2500 X 8000		1	6400	62772 024	023		
SI 0.15 - 0.25%, CEV MAX. 0.45%								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
050	50.00 X 2500 X 6000	C5079	1	6000	62772 022	022		
050	50.00 X 2500 X 6000		1	6000	62773 012	012		

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Raabe Steel Works	
Testaus ja tarkastus Testing and Inspection	
Minna Valkama	
MINNA VALKAMA	
Valtuutettu tarkastaja Authorized inspection representative	
Yhtäön nimi Company Name: SSAB Europe Oy	
Yhtäön osoite Office Address: PL 93, P.O. Box 93	
Puhelin Telephone: 020 591 1	
Telekopio Telefax: 020 592 2736	
Y-tunnus Business ID: 2389445-7	

Tilaja Purchaser KONTINO OY AB PL 27 01301 VANTAA FINLAND Tilauksen nro Order No. 1110096	Tilausvahvistus Order Confirmation 16778	Vastaanottaja Consignee OY KONTINO AB HAKINTIE 6 01380 VANTAA FINLAND Asiakkaan merkki Shipping mark 1110096	Päivämäärä Date 18.11.2016 Valmistajan merkki Mark of the Manufacturer
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Laji Grade S355MC	Lisävaatimukset Additional requirements	Jatkuvavalehtua happiterästä Oxygen steel, continuous casting Fully killed, Fine grain practiced
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HIGH YIELD STRENGTH FORMABLE FINE-GRAIN STEEL

Pos. Item	Sulatus, kera nro Cast, test No	T-tila Cond	Velokoe Tensile test				Tensile test				Taivutuskoe Bend test			Huom Nb	Päästö Tempering °C		
			K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	2	3	A % 50 80 200	REH /RM			RM * A5	RAZ % 1 2 3
010	62386	014	TM	12					409	459			34			11	0.5
020	62386	042	TM	12					368	440			34			11	0.5
020	62386	052	TM	12					382	455			33			11	0.5
020	62386	053	TM	12					380	454			33			11	0.5

K2: 12=TOP, LONGITUDINAL
K5: 11=BENDING TEST
TM=THERMOMECH. TREATED

Pos. Item	Sulatus kera nro Cast. test No	Iskukoe Impact test	Silekeamurtuma Ductile fracture						Erikoistestit Special tests				Huom Nb	Paasto Tempering °C				
			K3	°C	1	2	3	Keskiarvo Average	W	1	2	3			Keskiarvo Average	K4	°C	1
010	62386	014	111	-020	293	324	299	305										
020	62386	042	111	-020	315	308	310	311										
020	62386	052	111	-020	331	313	324	323										
020	62386	053	111	-020	309	300	338	316										

Q3: 111=CH-V/ISO-V(U),10X10,TOP, LONGIT, KV600

K3: 111=CH-VISO-V(J), 10X10, TOP, LONGIT, KV600

Raah Steel Works

Testaus ja tarkastus Testing and Inspection

Minna Valkama

Yhtiön nimi Company Name: Minna Valkama Oy	Osoite Address: PL 93, P.O. Box 93 FIN-02101 RAAH	Puhelin Telephone: 020 5911 +358 9 502 9746	Telekopio Telefax: 020 592 2736 +358 9 502 9746	Y-tunnus Business ID: 2389445-7
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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.

Tilaja Purchaser KONTINO OY AB PL 27 01301 VANTAA FINLAND Tilauksen nro Order No. 1110096	Vastaanottaja Consignee OY KONTINO AB HAKINTIE 6 01380 VANTAA FINLAND Asiakkaan merkki Shipping mark 1110096	Tilauksen vahvistus Order Confirmation 16778	Päivä määrä Date 18.11.2016 Valmistajan merkki Mark of the Manufacturer

Laji Grade
S355K2+N
Laatuselitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

Jatkuvavalehtia happileraasia
Oxygen steel, continuous casting
Fully killed. Fine grain practiced

Pos. Item	Sulatus, kera nro Cast. test No	T-tila Core	Veikoke Tensile test				REH MPa	RM MPa	A %			REH /RM	RM A5	RAZ %			Keskiarvo Average	Taivutuskoe Bend test		Huom Nb	Päästö Tempering °C
			K2	°C	RP02 MPa	RT05 MPa	REL MPa		1	2	3			1	2	3		K5	D = X t		
040	62772	023	NR	53				435	595								26				
050	62772	022	NR	53				418	569								28				
050	62773	012	NR	53				392	551								28				

K2: 53=BOTTOM, TRANSVERSE

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k era nro Cast. test No	Isukooe Impact test			Sitkeamurtuma Ductile fracture			Erkoiskokeet Special tests				Huom Nb	Paasto Tempering °C					
		K3	°C		1	2	3	Keskianvo Average	W	1	2			3	Keskianvo Average	K4	°C	1
040	62772	023	151	-020	133	161	100	131										
050	62772	022	151	-020	186	157	133	159										
050	62773	012	151	-020	39	118	131	96										

K3: 151-CH-V/ISO-V/JJ.10X10.BOTTOM.LONGIT.KV600

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

Raah Steel Works

Testaus ja tarkastus Testing and inspection

Minna Valkama

MINNA VALKAMA
Valtuutettu tarkastaja Authorized inspection representative
Yhtiön nimi Company Name: SSAB Europe Oy
Kansainvälinen Danierland Office: JÄMEENI MINA

Osoite Address: PL 93, P.O.Box 93
FIN-02101 RAAHUE FINLAND

Puhelin Telephone: 020 5911
+358 20 5011

Telekopio Telefax: 020 592 2736
+358 20 502 2736

Y-tunnus Business ID: 2389445-7

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.

[illegible]

Telekopio Telefaks: 020 592 2736
+359 20 502 2736

Sulatus nro Cast No. Schmelzen Nr. No de coulée № Плавки	Koe nro Test No. Prüf Nr. Essai No. № Пробы	Posito Item Pos. Poste № Пробки	Cekv Ceq Ceq Ceq Cekv	Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ пробы %	(*ppm)										Päivämäärä Date Datum Date Date Date 18.11.2016	MLK		
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B

62772	040	.42	.162	.21	1.41	.009	.001	.030	.043	.082	.002	.009	0.03	0.03	0.01	.003	.0000	
62772	050	.42	.162	.21	1.41	.009	.001	.030	.043	.082	.002	.009	0.03	0.03	0.01	.003	.0000	
62773	050	.43	.160	.21	1.41	.009	.001	.036	.042	.081	.003	.014	0.05	0.03	0.04	.003	.0002	

CEQ=C+MN/6+(CR+MO+V)/5+(NI+CU)/15

Raabe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle

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

Minna Valkama

MINNA VALKAMA

Valtuutettu tarkastaja
Sachverständiger
Inspector
Authorized inspection representative
Уполномоченный инспектор

Yhtiön nimi Company Name:
Käsitöiden ja Käsittelyn Osasto
SSAB Europe Oy
JAMMEEN ILMIA

Osasto Address:
FIN-07101 RAABE
FIN 07101

Puhelin Telephone:
020 5911
+358 20 592 2736

Telekopio Telefax:
020 592 2736
+358 20 592 2736

Y-lunus Business ID:
2389445-7

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

DoP id: P011_01

Hot rolled Plate product S355K2 / 1.0596
according to
EN 10025-2:2004
for bolted, welded and riveted structures.

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SWEDEN
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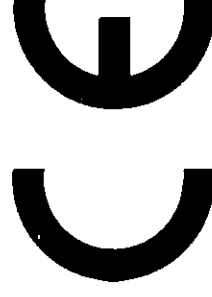
Assessment system and verification for constancy
of performance
System 2+

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:



Kari Ojala
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: P011_01		Performance		Harmonized technical specification
Thickness		Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		
5355K2 Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	EN 10025-1:2004
	3 ≤ t ≤ 5	-0,3	+0,7	
	5 ≤ t ≤ 8	-0,4	+0,8	
	8 ≤ t ≤ 15	-0,5	+0,9	
	15 ≤ t ≤ 25	-0,6	+1,0	
25 ≤ t ≤ 40	-0,7	+1,3		
40 ≤ t ≤ 80	-0,9	+1,7		
80 ≤ t ≤ 150	-1,1	+2,1		
150 ≤ t ≤ 250	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
	t < 40	Lower	Upper	
	40 ≤ t < 150	0	+20	
	150 ≤ t ≤ 400	0	+25	
	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 l	Tolerances		
	l < 4000	Lower	Upper	
	4000 ≤ l < 6000	0	+20	
	6000 ≤ l < 8000	0	+30	
	8000 ≤ l < 10 000	0	+40	
10 000 ≤ l < 15 000	0	+50		
15 000 ≤ l ≤ 20 000	0	+75		
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 ≤ t < 5	9	14	
	5 ≤ t < 8	8	12	
	8 ≤ t < 15	7	11	
15 ≤ t < 25	7	10		
25 ≤ t < 40	6	9		
40 ≤ t < 250	5	8		

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	> 16 ≤ 40	345	
	> 40 ≤ 63	335	
	> 63 ≤ 80	325	
	> 80 ≤ 100	315	
	> 100 ≤ 150	295	
	> 150 ≤ 200	285	
	> 200 ≤ 250	275	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	<3	510	680
	≥ 3 ≤ 100	470	630
	> 100 ≤ 150	450	600
	> 150 ≤ 250	450	600
Elongation	thickness mm	min %	
	≥ 3 ≤ 40	20	
	> 40 ≤ 63	19	
	> 63 ≤ 100	18	
	> 100 ≤ 150	18	
	> 150 ≤ 250	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	40
	> 150 ≤ 250	-20	33
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	> 30 ≤ 40	0,47	
	> 40 ≤ 150	0,47	
	> 150 ≤ 250	0,49	
Durability (chemical composition)	element	Max	
	C	≤ 30	> 30
		0,20	0,22
	Si	0,55	
	Mn	1,60	
	P	0,025	
	S	0,025	
	N		
	Cu	0,55	

DISPATCH LIST/PACKING LIST

Number	Date	Loading order number
16778 03	16.11.2016	83206
Customer's order		
1110096		

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
1110096

Number and description of goods	Weight
13 HOT ROLLED STEEL PLATES	48992 KG

PART DELIVERY

Invoicing weight
THEORETICAL

Item	Quality specification	Charge	Packages	Pcs	Weight kg
	HOT ROLLED STEEL PLATES				
	S355MC EN 10149-2:2013				
	XR3551636				
010	16.00 3000	6000 62386 014		3	6912
			*	3	6912
	XR3552036				
020	20.00 3000	6000 62386 042		2	5760
		62386 052		2	5760
		62386 053		2	5760
			*	6	17280
	S355K2+N EN 10025-2:2004				
	C4091				
040	40.00 2500	8000 62772 023		1	6400
		62772 024		1	6400
			*	2	12800
	C5079				
050	50.00 2500	6000 62772 022		1	6000
		62773 012		1	6000
			*	2	12000
CONSIGNMENT TOTAL			***	13	48992

DISPATCH LIST/PACKING LIST

Number	Date	Loading order number
16778 03	16.11.2016	83206

Customer's order

1110096

Item	Quality specification	Charge	Packages	Pcs	Weight kg
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CN
72085120

ITEMS
010 020 040 050