



EN 10 204-3.1 (2004)

Tilaaaja Purchaser: BE GROUP OY AB  
 PL 54: 15101 LAHTI FINLAND  
 Tilaus nro Order No: P072014  
 Tilauksen vahvistus Order Confirmation: 13046  
 Laivaus Shipping: 31  
 Vastaanottaja Consignee: BE GROUP OY AB  
 PAAKARLANTIE 3  
 20240 TURKU FINLAND  
 Asiakkaan merkki Shipping mark: 

Tuote Product: HEAVY PLATES  
 Leiji Grade: S355K2+N EN 10025-2:2004  
 Laatuselvitys Quality Specifications: STEEL FOR GENERAL STRUCTURAL PURPOSES  
 Toimitustyyppi Delivery type: PART DELIVERY  
 Päivämäärä Date: 11.06.2019  
 Valmistajan merkki Mark of the Manufacturer: 

Tarkastajan leima Stamp of Inspector:   
 Vastaanottajan leima Stamp of Surveyor:   
 Muut leimaukset Other Stamps:   
 Sulatus nro levy nro Cast No. Plate No.: X X X X X X X X X X X X X X X X X X  
 Toleranssit Tolerances: EN 10029:2010 CLASS A  
 Tekniset vaatimukset jätitai viralliset määräykset Technical terms of Delivery and/or Official Regulations

Positio Item	Mitat mm Dimensions mm	Merkki Mark	Kpl Pcs	Paino kg Weight kg	Sulatus levy nro Cast plate No	SP nro SP No	UT UT	MT MT
<b>HOT ROLLED STEEL PLATES</b>								
<b>FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3</b>								
002	12.00 X 2000	X	1	3226	37858	022	022	
<b>FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3</b>								
004	18.00 X 2100	X	1	5080	37585	011	011	
004	18.00 X 2100	X	1	5080	37585	012	011	
004	18.00 X 2100	X	1	5080	37585	013	011	
004	18.00 X 2100	X	1	5080	37853	024	024	
<b>FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3</b>								
005	25.00 X 2300	X	1	7728	37588	021	021	

\*\*\* 6 31274

### Raahe Steel Works

Testaus ja tarkastus Testing and Inspection



MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

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

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

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  
BE GROUP OY AB  
PL 54  
15101 LAHTI FINLAND  
Tilaus nro Order No.  
P072014

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Päivämäärä Date  
11.06.2019

Valmistajan merkki  
Mark of the Manufacturer



Tilausvahvistus Order Confirmation  
13046

Lisävaatimukset Additional requirements

Jaukuvaalettua happoteräsiä  
Oxygen steel, continuous casting  
Fully killed, Fine grain practiced

### STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus, k. erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test		K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	RM, MPa			A %	REH /RMI	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C
			1	2							3	1	2				3	K5	D = X t			
002	37858 022	NR	11						482	581	26											
004	37585 011	NR	11						472	595	26											
004	37853 024	NR	11						459	564	26											
005	37588 021	NR	51						421	577	27											

K2: 11=TOP, TRANSV. 51=BOTTOM, TRANSV.

NR=NORMALIZING ROLLING

Pos. Item	Sulatus, k. erä nro Cast. test No	Iskukoe Impact test	W (mm)			Keskiarvo Average			K4	°C	1	2	3	Keskiarvo Average	Huom Nb	Päästö Tempering °C
			1	2	3	1	2	3								
002	37858 022	115	-020	144	163	152	153									
004	37585 011	111	-020	245	252	260	252									
004	37853 024	111	-020	273	272	269	271									
005	37588 021	151	-020	197	192	203	197									

K3: 115=CH-V/ISO-V(U),7.5X10.TOP, LONGIT, KV600 111=CH-V/ISO-V(U),10X10.TOP, LONGIT, KV600 151=CH-V/ISO-V(U),10X10.BOTTOM, LONGIT, KV600

LE = Poikittainen laajenema Lateral Expansion

### Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

*Minna Valkama*

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

Sulatus nro Cast No Schmelzen Nr. No de coulée № Плавки	Koe nro Test No Prüf Nr. Essai No № Проб	Positio Item Pos. Poste Поз.	Cekiv Ceq Cäq Cég Cekv	Analyyssi % Chemical composition % Analyse % C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B
37858	002	.40	.149	.44	1.41	.009	.005	.033	.042	.042	.008	.002	.024	0.05	0.05	.010	.004	.0001
37585	004	.42	.157	.45	1.46	.007	.002	.034	.043	.043	.005	.003	.021	0.05	0.04	.004	.003	.0003
37853	004	.40	.153	.45	1.40	.016	.002	.028	.043	.043	.007	.003	.016	0.05	0.04	.004	.003	.0003
37588	005	.42	.158	.45	1.45	.008	.003	.033	.041	.041	.005	.004	.024	0.05	0.04	.005	.002	.0002

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

### Raabe Steel Works

Testaus ja tarkastus  
Prtüfung und Kontrolle

Испытание и контроль качества

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*

MINNA VALKAMA

Valtuutettu tarkastaja  
Sachverständiger

Authorized inspection representative  
Inspektor autorisé

Уполномоченный инспектор

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

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

Puhelin Telephone: 020 5911  
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Y-tunnus 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.

SSAB  
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101 20 Stockholm  
SWEDEN  
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Email: [info@ssab.com](mailto:info@ssab.com)  
Website: [ssab.com](http://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

# CE

05

0045-CPR-0573  
EN 10025-1:2004

Dop id: P011_01	Performance		Harmonized technical specification
S355K2	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Lower	Upper	
Thickness	Lower	Upper	
Nominal thickness (mm)			
$3 \leq t < 5$	-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	Tolerances		
Nominal thickness	Lower	Upper	
$t < 40$	0	+20	
$40 \leq t < 150$	0	+25	
$150 \leq t < 400$	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	Tolerances		
Nominal length	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	
$15\ 000 \leq l < 20\ 000$	0	+100	
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.			
Flatness	Measuring length		
Nominal thickness 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)	
	$\leq 16$	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	$< 3$	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
	Elongation	thickness mm	min %
$\geq 3 \leq 40$		20	
$> 40 \leq 63$		19	
$> 63 \leq 100$		18	
$> 100 \leq 150$		18	
Impact strength	thickness mm	temperature, °C	min. energy, J
	$\leq 150$	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
Durability (chemical composition)	thickness mm	Max	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
	element	$\leq 30$	$> 30$
	C	0,20	0,22
	Si		0,55
Mn		1,60	
P		0,025	
S		0,025	
N			
Cu		0,55	