



EN 10 204-3.1 (2004)

Tilaja Purchaser: BE GROUP OY AB
 PL 54 15101 LAHTI FINLAND
 Tilaus nro Order No: P072014
 Tilausvahvistus 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: 

Tekniset vaatimukset/jäitai viralliset määräykset Technical terms of Delivery and/or Official Regulations: EN 10029:2010 CLASS A

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
HOT ROLLED STEEL PLATES								
FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3								
002	12.00 X 2000	X	1	3226	37858	022	022	
FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3								
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	
FLATNESS MAX 6MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3								
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.

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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

Laatuselvitys Quality Specifications

Pos. Item	Sulatus, k era 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	1	2			
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 era nro Cast. test No	Iskukoe Impact test	FA %			W (mm)	Keskiarvo Average	K3	°C	Erikoiskokeet Special tests			Huom Nb	Päästö Tempering °C
			1	2	3					K4	°C	1		
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						

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

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

Raahe Steel Works

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: HAMMILLINNA

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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	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (* =ppm)													
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N
37858	002	.40	.149	.44	1.41	.009	.005	.033	.042	.008	.002	.024	0.05	0.05	.010	.004	.0001
37585	004	.42	.157	.45	1.46	.007	.002	.034	.043	.005	.003	.021	0.05	0.04	.004	.003	.0003
37853	004	.40	.153	.45	1.40	.016	.002	.028	.043	.007	.003	.016	0.05	0.04	.004	.003	.0003
37588	005	.42	.158	.45	1.45	.008	.003	.033	.041	.005	.004	.024	0.05	0.04	.005	.002	.0002

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

Raah Steel Works

Testaus ja tarkastus
Testing and Inspection
Essais et Contrôle

Испытание и контроль качества

Steel manufactured and supplied by Raah Steel Works is free from radiation.
Производимая на металлургическом комбинате «Raah 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

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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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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			
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 <i>l</i>	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 <i>t</i>	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)	
	≤ 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
	≤ 150	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
Durability (chemical composition)	thickness mm	element	
	$> 40 \leq 150$	Max	
	$> 150 \leq 250$	Max	
	element	≤ 30	> 30
	C	0,20	0,22
	Si		
Mn		0,55	
P		1,60	
S		0,025	
N		0,025	
Cu		0,55	