

Tilaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P097733	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND Asiakkaan merkki Shipping mark P097733	Päivämäärä Date 12.05.2022
Tilausvahvistus Order Confirmation 10647	Laatumerkintä Quality Marking S355K2 N S355J2 N S355J0 N S355JR N Sulatus nro levy nro Cast No. Plate No. X X X X X X X X X X X X	Valmistajan merkki Mark of the Manufacturer



Toistuis Certificate 31	Tarkastajan leima Stamp of Inspector Mxx
Toimitustyyppi Delivery type PART DELIVERY	Vastaanottajan leima Stamp of Surveyor
Tuote Product HEAVY PLATES	Muut leimaukset Other Stamps

Toleranssit Tolerances
SSAB EN 10029:2010 THICK. 3/4 CLASS A

Tekniset vaatimukset jätetäi 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	Turvamerkki Safety mark
HOT ROLLED STEEL PLATES									
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
001	15.00 X 2450 X 12000	2100144150	2	7056	14007 051	021			
001	15.00 X 2450 X 12000		2	7056	14007 059	021			
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
002	20.00 X 2000 X 6000	2100144315	4	7680	14007 013	011			
002	20.00 X 2000 X 6000		4	7680	14007 031	011			
002	20.00 X 2000 X 6000		3	5760	14007 032	011			

*** 15 35232

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.
P097733

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P097733

Päivämäärä Date
12.05.2022

Valmistajan merkki
Mark of the Manufacturer



Laji Grade
S355K2/J2/J0/JR+N

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Laatuseilytykset Quality Specifications STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test		RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	RM _p MPa	2	3	A %	50	80	200	RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C	
			K2	°C															1	2	3				
001	14007 021	NR	11							544			26							1	2	3			
002	14007 011	NR	11							537			27												

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	Keskisarvo Average	W (mm)	1	2	3	Keskisarvo Average	1	2	3	*Specimen Unbroken			K4	°C	Erikoiskokeet Special tests			Keskiarvo Average	Huom Nb	Päästö Tempering °C	
														FA %	1	2			3	1	2				3
001	14007 021	111	-020	209	176	190				192															
002	14007 011	111	+000	215	227	230				224															
		111	-020	239	236	237				237															
		111	+000	232	238	244				238															

K3: 11=CH+VISO-V(J),10X10.TOP, LONGIT, KV600

LE = Poikittainen laajenema Lateral Expansion

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ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 A 10647 -003 A
 11.05.2022

Päivämäärä Date Datum Date Дата
 12.05.2022 MHR

Sulatus nro Cast No Schmelzen Nr. No de coulée № Плавки	Koe nro Test No Prüf Nr. Essai No № Проб	Positio Item Pos. Poste Поз.	Cekki Ceq Ceq Ceq Cekki	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*-ppm)													
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N
14007	001	.40	.148	.20	1.38	.012	.006	.029	.036	.014	.003	.013	0.06	0.04	.005	.004	.0002
14007	002	.40	.148	.20	1.38	.012	.006	.029	.036	.014	.003	.013	0.06	0.04	.005	.004	.0002

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

Raabe Steel Works

Testaus ja tarkastus
 Prüfung 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

Уполномоченный инспектор

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

Osoite Address: PL 93, P.O Box 93
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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_02

Hot rolled Plate product S355K2 / 1.0596
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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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:



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_02	EN 10025-2:2019	Performance	Harmonized technical specification
S355K2	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
Thickness	$80 \leq t < 150$	-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
	$150 \leq t < 400$	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
$15\ 000 \leq l < 20\ 000$	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	
		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	
	$> 150 \leq 250$	17	
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	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max	1,60	
	P, max	0,025	
	S, max	0,025	
	N, max	0,55	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
Mo, max	0,11		

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

DoP id. P010_02

Hot rolled Plate product S355J2 / 1.0577
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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Assessment system and verification for constancy
of performance
System 2+

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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: P010_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355J2	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	0			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+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		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
$15\ 000 \leq l < 20\ 000$	+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	
		$3 \leq t < 5$	2000	
		$5 \leq t < 8$	14	
		$8 \leq t < 15$	12	
		$15 \leq t < 25$	11	
		$25 \leq t < 40$	10	
$40 \leq t < 250$	9			
		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	
	$> 100 \leq 150$	295	
$> 150 \leq 200$	285		
$> 200 \leq 250$	275		
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	
$> 150 \leq 250$	17		
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	27
	$> 150 \leq 250$	-20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max	1,60	
	P, max	0,025	
	S, max	0,025	
	N, max	0,55	
	Cu, max	0,42	
	Ni, max	0,29	
	Mo, max	0,11	

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

DoP id. P009_02

Hot rolled Plate product S355J0 / 1.0553
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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Assessment system and verification for constancy
of performance

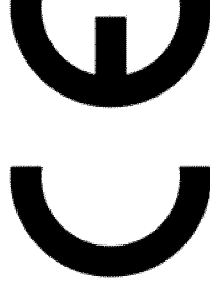
System 2+

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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



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0045-CPR-0573
EN 10025-1:2004

Dop id: P009_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355J0	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	+20			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+30			
Length	Nominal length <i>l</i>	Tolerances		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
		$15\ 000 \leq l < 20\ 000$	+100	
		Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.		
		Flatness	Nominal thickness <i>t</i>	Measuring length
1000	2000			
$3 \leq t < 5$	14			
$5 \leq t < 8$	12			
$8 \leq t < 15$	11			
$15 \leq t < 25$	10			
$25 \leq t < 40$	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	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
	$> 200 \leq 250$	275	
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 %	max %
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	0	27
	$> 150 \leq 250$	0	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	P, max	0,20	0,22
	Si, max		0,55
	Mn, max		1,60
	P, max	0,030	
	S, max	0,030	
	N, max	0,012	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

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

DoP id. P008_02

Hot rolled Plate product S355JR / 1.0045
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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Assessment system and verification for constancy
of performance

System 2+

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Vice President, hot rolled plate and strip products,
SSAB Europe Oy, Raahе Steelworks
Raahе 2015-06-09

CE

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0045-CPR-0573
EN 10025-1:2004

Dop id: P008_02	EN 10025-2:2019	Performance	Harmonized technical specification
S355JR	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)	EN 10025-1:2004
	Nominal thickness (mm)	Lower Upper	
	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	
	Nominal thickness	Tolerances	
	t < 40	Lower Upper	
	40 ≤ t < 150	0 +2,5	
	150 ≤ t < 400	0 +3,0	
	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		
	Nominal length	Tolerances	
	l	Lower Upper	
	l < 4000	0 +20	
	4000 ≤ l < 6000	0 +30	
	6000 ≤ l < 8000	0 +40	
	8000 ≤ l < 10 000	0 +50	
	10 000 ≤ l < 15 000	0 +7,5	
	15 000 ≤ 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.		
	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)	max (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 %	max %
	≥ 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	27
	> 150 ≤ 250	20	27
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	Value	
	C, max	0,24	
	Si, max	0,55	
	Mn, max	1,60	
	P, max	0,035	
	S, max	0,035	
	N, max	0,012	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

Tilaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P097733	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND Asiakkaan merkki Shipping mark P097733	Päivämäärä Date 12.05.2022 Valmistajan merkki Mark of the Manufacturer
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Toistuis Certificate 31	Laatumerkintä Quality Marking MULTISTEEL SN	Tarkastajan leima Stamp of Inspector Vastaanottajan leima Stamp of Surveyor Muut leimaukset Other Stamps
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Toimitustyyppi Delivery type
PART DELIVERY

Sulatus nro levy nro Cast No. Plate No.
X X X X X X X X X X X X X X X X

Toleranssit Tolerances
SSABEN 10029:2010 THICK. 3/4 CLASS A

Tuote Product
HEAVY PLATES

Laji Grade
SSAB MULTISTEEL SN

Laatuselvitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

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	Turvamerkki Safetymark
HOT ROLLED STEEL PLATES									
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
001	15.00 X 2450 X 12000	2100144150	2	7056	14007 051	021			
001	15.00 X 2450 X 12000		2	7056	14007 059	021			
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
002	20.00 X 2000 X 6000	2100144315	4	7680	14007 013	011			
002	20.00 X 2000 X 6000		4	7680	14007 031	011			
002	20.00 X 2000 X 6000		3	5760	14007 032	011			

Tekniset vaatimukset jätetä viralliset määräykset Technical terms of Delivery and/or Official Regulations

*** 15 35232

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: HAAMEENLINNA

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.

Tilaaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P097733

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P097733

Päivämäärä Date
12.05.2022

Valmistajan merkki
Mark of the Manufacturer



Laji Grade
SSAB MULTISTEEL SN

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Laatuseilytykset Quality Specifications STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test		RP02 MPa	RT05 MPa	REL MPa	REH MPa	RM MPa	A %	RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C
			K2	°C									1	2	3			
001	14007 021	NR	11						544	26								
002	14007 011	NR	11						537	27								

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)	FA %	LE (mm)			*Specimen Unbroken			Erikoiskokeet Special tests			Huom Nb	Päästö Tempering °C	
							1	2	3	Keskiarvo Average	K4	°C	1	2	3			Keskiarvo Average
001	14007 021	111	-020	209	176	190												
		111	+000	215	227	230												
002	14007 011	111	-020	239	236	237												
		111	+000	232	238	244												

K3: 11=CH+VISO-V(J),10X10.TOP, LONGIT, KV600

LE = Poikittainen laajenema Lateral Expansion

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ANALYYSITODISTUS ANALYSIS CERTIFICATE
ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
СЕРТИФИКАТ АНАЛИЗА

3/3
A 10647 -003 B
11.05.2022

Päivämäärä Date Datum Date Дата
12.05.2022 MHR

Sulatus nro Cast No Schmelzen Nr. No de coulén № Плавки	Koe nro Test No Prüf Nr. Essai No № Проб	Positio Item Pos. Poste Поз.	Cekki Ceq Ceq Ceq Cekki	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*--ppm)													
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N
14007	001	40	.148	.20	1.38	.012	.006	.029	.036	.014	.003	.013	0.06	0.04	.005	.004	.0002
14007	002	40	.148	.20	1.38	.012	.006	.029	.036	.014	.003	.013	0.06	0.04	.005	.004	.0002

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

Raah Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle

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

Уполномоченный инспектор

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

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