

Our order No.: (A08) 3132482Your order No.: (A07) RGR

Order registration date: 15.12.2023

Date of dispatch: 07.03.2024 B

Material requirements and customer information

Product: <small>(B01)</small> Plate	Steel standard and grade: <small>(B02)</small> EN10025-2:2019 S355J2	Surface tolerance: EN 10163-2 B3
Delivery condition: <small>(B04)</small> Normalized rolled (+N)		Length tolerance: EN 10029 Table 3
Customer name and address <small>(A06)</small> 8408 SIA NLMK PLATE BALTIC DAUGAVGRIVAS 93 1007 RIGA Latvia	Certificate address 8408001 NLMK Plate Baltic SIAa.faktarauskas @eu.nlmk.com;v.koiro@eu.nlmk.com Daugavgrivas 93 1007 RIGA Latvia V.KOIRO@EU.NLMK.COM;A.FAKTARAUSKAS@EU.NLMK.COM	Width tolerance: EN 10029 Table 2
		Thickness tolerance: EN 10029 Class A
		Flatness tolerance: EN 10029 Table 4 Class N

Supplementary information: (C04)

Fully Killed and Fine Grain

Visual examination and dimensional checking: Satisfactory. The results of tests performed are in compliance with the requirements. (Z01)

Details of supplied materials dimensions, weights and pieces

Heat/Slab <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
65681E5	7682R	14	15.0	1500	6000	6	6 360	S355J2+N	Head	RGR
65290H4	0165S	18	20.0	1500	6000	4	5 652	S355J2+N	Head	RGR
65764A2	2339S	19	20.0	2000	6000	2	3 768	S355J2+N	Head	RGR
65803E4	2387S	19	20.0	2000	6000	3	5 652	S355J2+N	Head	RGR
						15	21 432			

Our order No.: (A08) 3132482 Your order No.: (A07) RGR Order registration date: 15.12.2023 Date of dispatch: 07.03.2024 B

Chemical composition (heat analysis) all results in %

Heat No. <small>(B07)</small>	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.		0.14							0.020					
	max.	0.20	1.60	0.25	0.025	0.025	0.290	0.400	0.400	0.080	0.100	0.060	0.100	0.050	0.0120 0.0008
65290	0.17	1.48	0.19	0.007	0.004	0.015	0.010	0.010	0.001	0.042	0.040	0.001	0.002	0.0032	0.0002
65681	0.16	1.42	0.20	0.008	0.003	0.031	0.026	0.022	0.002	0.045	0.019	0.001	0.002	0.0046	0.0002
65764	0.17	1.51	0.20	0.012	0.004	0.049	0.024	0.020	0.002	0.035	0.041	0.002	0.002	0.0044	0.0002
65803	0.17	1.49	0.22	0.013	0.002	0.039	0.038	0.029	0.003	0.038	0.042	0.002	0.002	0.0046	0.0002

Heat No. <small>(B07)</small>	CEV	Remark <small>(C70)</small>
-------------------------------	-----	-----------------------------

Set values:	min.	
	max.	0.43
65290	0.42	1 3 4 6
65681	0.41	1 3 4 6
65764	0.43	1 3 4 6
65803	0.43	1 3 4 6

Supplementary information (C99)

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

1 = Basic Oxygen Steel, 2 = Electric Arc Furnace, 3 = Ladle Refined, 4 = Calcium Treated, 5 = Vacuum Degassed, 6 = Continuous Cast, 7 = Ingot

Our order No.: (A08) 3132482 Your order No.: (A07) RGR Order registration date: 15.12.2023 Date of dispatch: 07.03.2024 B

Tensile testing

Tensile tests were performed in accordance with EN 10002/ISO 6892-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	Yield/UTS
65290H4	0165S-1-1	20.0	R	H	T	429	R02	564	A5	26	0.76
65290H4	0165S-1-2	20.0	R	H	T	429	R02	564	A5	26	0.76
65290H4	0165S-1-3	20.0	R	H	T	429	R02	564	A5	26	0.76
65290H4	0165S-1-4	20.0	R	H	T	429	R02	564	A5	26	0.76
65764A2	2339S-2-1	20.0	R	H	T	457	REH	581	A5	28	0.79
65764A2	2339S-2-2	20.0	R	H	T	457	REH	581	A5	28	0.79
65803E4	2387S-1-1	20.0	R	H	T	445	REH	570	A5	25	0.78
65803E4	2387S-1-2	20.0	R	H	T	445	REH	570	A5	25	0.78
65803E4	2387S-2-2	20.0	R	H	T	445	REH	570	A5	25	0.78
65681E5	7682R-1-1	15.0	R	H	T	421	REH	541	A5	31	0.78
65681E5	7682R-1-2	15.0	R	H	T	421	REH	541	A5	31	0.78
65681E5	7682R-1-3	15.0	R	H	T	421	REH	541	A5	31	0.78
65681E5	7682R-1-4	15.0	R	H	T	421	REH	541	A5	31	0.78
65681E5	7682R-1-5	15.0	R	H	T	421	REH	541	A5	31	0.78
65681E5	7682R-1-6	15.0	R	H	T	421	REH	541	A5	31	0.78

Supplementary Information (C99)

 Loc.: (C01) H = head, T = tail

 Dir.: (C02) T = transversal, L = longitudinal

 Shape: (C10) Ø = round, R = rectangular

Original gauge length: 200 mm

Our order No.: (A08) 3132482 Your order No.: (A07) RGR Order registration date: 15.12.2023 Date of dispatch: 07.03.2024 B

Impact testing Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
65290H4	0165S-1-1	1	CV	10x10	H	L	-20	184	226	217	209
65290H4	0165S-1-2	1	CV	10x10	H	L	-20	184	226	217	209
65290H4	0165S-1-3	1	CV	10x10	H	L	-20	184	226	217	209
65290H4	0165S-1-4	1	CV	10x10	H	L	-20	184	226	217	209
65764A2	2339S-2-1	1	CV	10x10	H	L	-20	215	231	236	227
65764A2	2339S-2-2	1	CV	10x10	H	L	-20	215	231	236	227
65803E4	2387S-1-1	1	CV	10x10	H	L	-20	196	198	208	201
65803E4	2387S-1-2	1	CV	10x10	H	L	-20	196	198	208	201
65803E4	2387S-2-2	1	CV	10x10	H	L	-20	196	198	208	201
65681E5	7682R-1-1	1	CV	10x10	H	L	-20	246	243	241	243
65681E5	7682R-1-2	1	CV	10x10	H	L	-20	246	243	241	243
65681E5	7682R-1-3	1	CV	10x10	H	L	-20	246	243	241	243
65681E5	7682R-1-4	1	CV	10x10	H	L	-20	246	243	241	243
65681E5	7682R-1-5	1	CV	10x10	H	L	-20	246	243	241	243
65681E5	7682R-1-6	1	CV	10x10	H	L	-20	246	243	241	243

Supplementary Information (C99)

Position: (C01) 1 = surface, 2 = middle, 3 = 1/3 of thickness, 4 = 1/4 of thickness

Notch: (C40) CU = Charpy U-notch, CV = Charpy V-notch, CVA = Charpy V-notch (ASTM)

Loc.: (C01) H = head, T = tail

Dir.: (C02) T = transversal, L = longitudinal

Our order No.: (A08) 3132482 **Your order No.:** (A07) RGR **Order registration date:** 15.12.2023 **Date of dispatch:** 07.03.2024 B

We hereby certify that the material has been made and tested in accordance with the mentioned specification(s).
Certified according to Construction Products Regulations (305/2011/EU) by TÜV NORD Systems GmbH (Notified Body Reg. No. 0045).
For Declaration of Performance please see www.DanSteel.dk and DoP number 009CPR2013-07-01.



TÜV-NORD 0045-CPR-0554
Year of initial inspection: 2005
Intended use: Welded, bolted and riveted structures.

Our products are Cobalt, Gold, Mercury free and are free of radioactive substances and do not exceed the clearing limit value of 100 Bg/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.
Manufactured in Denmark

Information description

acc. to EN 10168

A Commercial transactions and parties involved

- A01 Manufacturer's works
- A02 Type of inspection document
- A03 Document number
- A04 Manufacturer's mark
- A05 Originator of the inspection document
- A06 Customer consignee
- A07 Purchaser's order number and, where applicable, item number
- A08 Manufacturer's works order number
- A09 Customer article number
- A10 to A99 Supplementary information

B Description of Products

- B01 Product
- B02 Steel designation
- B03 Any supplementary requirements
- B04 Product delivery condition
- B05 Reference (heat) treatment of samples
- B06 Marking of the product
- B07 Identification of the product
- B08 Number of pieces
- B09 to B11 Product dimensions
- B12 Theoretical mass
- B13 Actual mass
- B14 to B99 Supplementary information

C Inspection

- C00 Identification of the sample
- C01 Location of the sample
- C02 Direction of the test pieces
- C03 Test temperature
- C04 to C09 Supplementary information

- C10 Shape of the test piece
- C11 Yield or proof strength
- C12 Tensile strength
- C13 Elongation after fracture
- C14 to C29 Supplementary information
- C30 Method of test
- C31 Individual values
- C32 Mean value
- C33 to C39 Supplementary information
- C40 Type of test piece
- C41 Width of test piece
- C42 Individual values
- C43 Mean value
- C44 to C49 Supplementary information
- C50 to C69 Supplementary information
- C70 Steelmaking process
- C71 to C92 Chemical composition
- C93 to C99 Supplementary information

D Other tests

- D01 Marking and identification, surface appearance, shape and dimensional properties
- D02 to D50 Non-destructive tests
- D51 to D99 Supplementary information

Z Validation

- Z01 Statement of compliance
- Z02 Date of issue and validation
- Z03 Stamp of the inspection representative
- Z04 CE marking
- Z05 to Z99 Supplementary information

U.S.Steel Košice, s.r.o. A01 Vstupný areál U.S.Steel 044 54 Košice SLOVAK REPUBLIC	Purchaser Art. No: 7B7S8A43/02 A09 Works Order No: XC353918 A08 Advice No: 23/345408 01 A10 Your order: 05/2023 A07	Elme Metall OU A06 Kopli tn 103/38 Pohja-Tallinna linnaosa 11712 TALLINN Estonia
METALLURGICAL CERTIFICATE NO: 30872001/004 A03		B09
Desc. of goods: HOT ROLLED STEEL SHEETS B01		Size: 10,000 x 1500,0 x 6000,0 mm EN 10029/10 tr.A
Standard: EN 10025-2/19 B02	B03	Pcs: 26 B08 Net Weight: 18 365 kg B13
Quality: S355J2+N B02	Delivery Note: 30872001 A10	

Unit No	Coil No	Heat	B07	Unit No	Coil No	Heat	B07
586020601	5860206	58602		586020603	5860206	58602	
586020602	5860206	58602		586020604	5860206	58602	

M E C H A N I C A L T E S T R E S U L T S

Coil No
Min. / Max. 5860206

C12 Rm(T)	(MPA)	470/630	560
C11 Rp0,2(T)	(MPA)	355/	401
C13 A5(T)	(%)	20,0/	20,5
C43 KV C03 -20°C avr. (L)	(J)	20,2/	142,0
C42 KV1 C03 -20°C(L)	(J)	/	150,0
C42 KV2 C03 -20°C(L)	(J)	/	124,0
C42 KV3 C03 -20°C(L)	(J)	/	150,0
C02 Direction: (T)-transversal; (L)-longitudinal; KV test pieces th.: 7.5			

C71



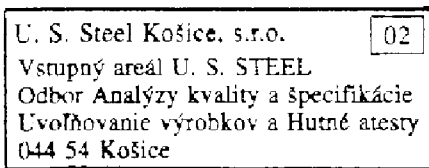
C H E M I C A L C O M P O S I T I O N, %


	Heat No			Heat No	
	Min. / Max.	58602		Min. / Max.	58602
C	/0,20	0,18	Mn	/1,60	1,31
Si	0,14/0,25	0,20	P	/0,025	0,011
Al	0,020/	0,035	S	/0,025	0,008
Cr	/0,29	0,02	Cu	/0,55	0,03
CEV	/0,46	0,41	Mo	/0,11	0,00
Ni	/0,42	0,01	Ti	/	0,020
V	/0,10	0,00			

THE MATERIAL IS IN COMPLIANCE WITH ORDER REQUIREMENTS. Z01

The measured weight-based activity of Co60 + Cs137 + Am241 radionuclide is not higher than 100 Bq/kg. D02

355 Last Page: 1
F-USM/0063-04/10-01-12

Z04  06 0900-CPR-1178 DoP USSK-01/2022 www.usske.sk	Z05	Z02 Signature Not Verified  Digitally signed by Ing. Vlasta Cernakova Date: 2023.05.31 07:50:11 CEST Reason: Zabezpečuje vierohodnosť pôvodu,	Z03 
Košice: 31.05.2023, 7:30:15 Ján Godina, AUTHORIZED INSPECTION REPRESENTATIVE. e-mail: InspectionDocument@sk.uss.com, tel.: +421-55-6739404			Z02

 CMC Poland Sp. z o.o. 42-400 Zawiercie, ul. Piłsudskiego 82 www.cmc.com	A02 Rodzaj dokumentu kontrolnego / Type of inspection document / Art der Prüfbescheinigungen ŚWIADECTWO ODBIORU 3.1 INSPECTION CERTIFICATE 3.1 ABNAHMEPRÜFZEUGNIS 3.1 PN-EN 10204	Z02.1 Data/Date/Datum Zawiercie 08.11.2023
		A03 Nr / No. 85605856 607969E075

BADANIA MECHANICZNE / MECHANICAL TESTS / MECHANISCHE UNTERSUCHUNGEN

Test	C30 Pomiar twardości HBW Hardness HBW Brinneharte HBW PN-EN ISO 6506-1	Próba uderzeniowa Charpy impact Kerbschlagarbeit PN-EN ISO 148-1						Informacje uzupełniające Supplementary information Ergänzende Angaben	Inne badania wyrobu Other product tests Zerstörungsfreie Prüfungen	Inne badania wyrobu Other product tests Zerstörungsfreie Prüfungen
	C31 Twardość w stanie dostawy Hardness in delivery state Brinneharte Lieferzustand	C40 C42 KV [J]	C40 C42 KU [J]	C40 C42 KCV [J/cm ²]	C40 C42 KCU [J/cm ²]	C40 C42 KCU2A [J/cm ²]	C41 Szerokość próbki do badań Width of test piece Probenbreite	C44 Temp [°C]	C02 Kierunek pobierania próbek Direction of the sample Lage des Probenabschnittes	C50 Próba spęczania Upsetting test Stauchprobe PN-H - 04411
1		134,0								Pozytyw
2		167,0								Pozytyw
3		152,0								Pozytyw

D52 PRÓBA HARTOWNOŚCI HRC / JOMINY HRC RESULTS / HARTBARKEIT TEST PN-EN ISO 642

Test	Odległości od czola (mm) / Distance (mm) /																						
	1	1.5	2	3	4	5	6	7	8	9	10	11	12	13	15	20	25	30	35	40	45	50	
1																							
2																							
3																							

D53 WTRĄCENIA NIEMETALICZNE / INCLUSION RATING / NICHTMETALLISCHE EINSCHLÜSSE

Method /	PN-H-04510										ASTM E45						DIN 50602
Data	Oznaczenie wtrąceń / Type of inclusion																
Test	TL	KK	KP	TP	KN	S	AT	AA	AT	AH	BT	BH	CT	CH	DT	DH	K
1																	
2																	
3																	


D54 BADANIA STRUKTURY / STRUCTURE TEST / STRUKTUR TEST

Rodzaj badania / Type of test	Makrostruktura / Macrostructure / Makrostruktur PN-H-04501								Mikrostruktura / Microstructure / Mikrostruktur PN-H-04504							
	Numer wzorca / Template number								Numer skali / Scale number							
Test	I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
1																
2																
3																

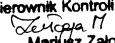
D55 INNE BADANIA / OTHER TESTS / ANDERE PRÜFUNGEN AM ERZEUGNIS

Rodzaj badania / Type of test/	Metoda / Method	Test 1	Test 2	Test 3
Wielkość ziarna / Grain size / Korngröße	PN-EN ISO 643			
Przegrzewność / Susceptibility to overheating/ Überhitzungsempfindlichkeit	PN-EN ISO 643			
Pasmowość / Banding / Zeiligkeit	PN-H-04504			

Z07 Dodatkowy komentarz / Additional commentary / Zusatzliches Kommentar

Z04 Z05 Cechowanie znakiem CE , Informacje uzupełniające / CE marking , Supplementary information /CE Zeichen , Ergänzende Angaben	 Etykieta CE Zamierzone zastosowanie: Konstrukcje metalowe lub konstrukcje metalowo- betonowe Deklarujemy, że wyrób jest zgodny z zamówieniem. Nr certyfikatu 0758-CPR-002 wydany przez PRÜSTELLE FÜR BETONSTAHL PROF. DR.-ING. G.REHM GmbH	CE label Intended uses: Steel constructions or steel- concrete combined constructions. We declare the product is acc. to the order. Certificate no. 0758-CPR-002 issued by PRÜSTELLE FÜR BETONSTAHL PROF. DR.-ING. G.REHM GmbH	Deklaracja właściwości użytkowych CE2/19 (wersja 1) Declaration of Performance CE2/19 (version 1)
	Klasa jakości powierzchni / Surface quality classes / Oberflächenguteklassen B WG-PN-EN ISO 9443		

Z02.2, Z03

Z01 Producent deklaruje, że dostarczone wyroby są zgodne z warunkami zamówienia. The producer guarantees that the delivery goods are in accordance with the conditions of the order. Der Hersteller erklärt, dass gelieferte Produkte den Auftragsbedingungen entsprechen.	Kontrola jakości Quality Control Office Qualitätskontrolle	CMC POLAND Sp. z o.o. Kierownik Kontroli Jakości  Mariusz Zaloga
Z08 Nr rejestrowy/Registered Number/Registrierungsnummer - BDO 000003392	MARIUSZ ZALOGA	

U.S.Steel Košice, s.r.o. A01 Vstupný areál U.S.Steel 044 54 Košice SLOVAK REPUBLIC	Purchaser Art. No: 7B7S8BG4/01 A09 Works Order No: XC426665 A08 Advice No: 24/323057 01 A10 Your order: EM4814334 A07	Elme Metall OU A06 Kopli tn 103/38 Pohja-Tallinna linnaosa 11712 TALLINN Estonia
METALLURGICAL CERTIFICATE NO: 30459901/009 A03		Size: 3,000 x 1500,0 x 6000,0 mm EN 10051/10 B09
Desc. of goods: HOT ROLLED STEEL SHEETS B01		
Standard: EN 10025-2/19 B02		Pcs: 109 B08 Net Weight: 23 326 kg B13
Quality: S355J2+N B02	Delivery Note: 30459901 A10	

Unit No	Coil No	Heat	B07	Unit No	Coil No	Heat	B07
531330402	5313304	53133		531340803	5313408	53134	
531340801	5313408	53134		531340804	5313408	53134	
531340802	5313408	53134					

M E C H A N I C A L T E S T R E S U L T S

Min. / Max.	Coil No 5313304	Coil No 5313408
-------------	--------------------	--------------------

C12 Rm(T)	(MPA)	470/630	597	602
C11 ReH(T)	(MPA)	355/	501	500
C13 A5(T)	(%)	20,0/	20,0	21,5

C02 Direction: (T) -transversal;

C71


C H E M I C A L C O M P O S I T I O N, %

	Min. / Max.	Heat No			Min. / Max.	Heat No	
		53133	53134			53133	53134
C	/0,20	0,19	0,19	Mn	/1,60	1,00	1,02
Si	0,14/0,25	0,20	0,21	P	/0,025	0,012	0,011
Al	0,020/	0,042	0,038	S	/0,025	0,008	0,006
Cr	/0,29	0,01	0,02	Cu	/0,55	0,02	0,02
CEV	/0,46	0,36	0,36	Mo	/0,11	0,00	0,00
Ni	/0,42	0,01	0,01	V	/0,10	0,00	0,00

THE MATERIAL IS IN COMPLIANCE WITH ORDER REQUIREMENTS. Z01

The measured weight-based activity of Co60 + Cs137 + Am241 radionuclide is not higher than 100 Bq/kg. D02

375 Last Page: 1
F-USM/0063-04/10-01-12

 06 0090-CPR-1178 DoP USSK-01/2022 www.usske.sk	Z05 Signature Not Verified Digitally signed by Michal Varhol Date: 2024.07.29 07:40:29 CET Reason: Zabezpečuje vierohodnosť pôvodu,	Z02 U. S. Steel Košice, s.r.o. 02 Vstupný areál U. S. STEEL Odbor Analýzy kvality a špecifikácie Uvoľňovanie výrobkov a Hutné atesty 044 54 Košice	Z03
---	--	---	-----

Košice: 29.02.2024, 7:30:12

Ján Godina, AUTHORIZED INSPECTION REPRESENTATIVE. e-mail: InspectionDocument@sk.uss.com, tel.: +421-55-6739404

Z02

EN 10 204-3.1 (2004)

78415K-003

19.09.2024

Tilaja Purchaser
PLASMAPRO OU
TOOTMINE PLAADI 1/4
86602 PARNU LINN ESTONIA

Tilaus nro Order No.
280824-1 PP

Tilausvahvistus Order Confirmation
78415K

Vastaanottaja Consignee
PLASMAPRO OU
PÄRNU MNT 50
86703 SINDI ESTONIA
Asiakkaan merkki Shipping mark

Päivämäärä Date
20.09.2024

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
DX355MCD S355MC

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
CUT LENGTHS
Laji Grade
SSAB DOMEX 355MC D/S355MC EN10149-2:2013
Laatuseelvitys Quality Specifications
HSF FINE GRAIN STEEL

Toleranssit Tolerances
SSAB TOLERANCE EN10051, THICKN. 2/3 CAT B

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

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	Turvamerkki Safetymark
-----------------	---------------------------	-----------------	------------	-----------------------	-----------------------------------	-----------------	----	----	---------------------------

**HOT ROLLED STEEL IN BUNDLES CUT LENGTHS MILL EDGES
IMPACT TEST AT -20C MIN 40J**

001	8.00 X 1500	X	3015	12	3420	60424	011	011	
003	3.00 X 1500	X	3015	240	25600	60423	041	041	
				***	252	29020			

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
Kotipaikka Registered Office: HÄMEENLINNA

Osoite Address: PL 93, P.O Box 93
FI-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
 PLASMAPRO OU
 TOOTMINE PLAADI 1/4
 86602 PARNU LINN ESTONIA
 Tilaus nro Order No.
 280824-1 PP

Tilausvahvistus Order Confirmation
 78415K

Vastaanottaja Consignee
 PLASMAPRO OU
 PÄRNU MNT 50
 86703 SINDI ESTONIA
 Asiakkaan merkki Shipping mark

Päivämäärä Date
 20.09.2024 VJS

Valmistajan merkki
 Mark of the Manufacturer



Laji Grade
 SSAB DOMEX 355MC D/S355MC

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
 Oxygen steel, continuous casting

Laatuselvitys Quality Specifications
 HSF FINE GRAIN STEEL

Fully killed, Fine grain practiced

Pos. Item	Sulatus, k.erä 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			RE / RM	RM * A5	1			RAZ % 2 3	Keskiarvo Average	K5	D = X t
001	60424 011	TM	32		416						485		32							32	0.5		
003	60423 041	TM	32		421						494		35							32	0.5		

K2: 32=CENTRE, LONGITUDINAL
 K5: 32=120 MM WIDE BEND TEST

TM=THERMOMECH. TREATED

Pos. Item	Sulatus k.erä nro Cast. test No	Iskukoe Impact test					FA %			LE (mm)			*Specimen Unbroken			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		

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

001 60424 011 133 -020 105 120 119 115

K3: 133=CH-V/ISO-V(J),5X10,CENTRE, LONGIT, KV600

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

Osioite Address: PL 93, P.O Box 93
 FI-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
 +358 20 5911

Y-tunnus Business ID: 2389445-7

Sulatus nro Cast No Schmelzen Nr. No de coulén	Koe nro Test No Prüf Nr. Essai No	Positio Item Pos. Poste	Cekv CeQ CaQ Cég Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*=ppm)										Päivämäärä Date Datum Date		
				C	SI	MN	P	S	AL	NB	V	TI	20.09.2024		VJS	
60424		001	.22	.058	.01	0.86	.008	.005	.035	.025	.009	.001				
60423		003	.21	.055	.01	0.87	.008	.005	.033	.023	.006	.001				

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

Raah Steel Works

Testaus ja tarkastus Testing and Inspection
Prüfung und Kontrolle Essais et Contrôle

SSAB Europe Oy, Raah Steel Works testing laboratories T002 and T010 are accredited by the FINAS accreditation service (finas.fi), accreditation requirement SFS-EN ISO/IEC 17025.

Steel manufactured and supplied by Raah Steel Works is free from radiation.

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative
Sachverständiger Inspector autorisé

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

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

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7



INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204



0035
16
0035-CPR-A215

Bahru Stainless Sdn Bhd
PTD 4069, PLO 108,
Jalan Rumbia 4,
Tanjung Langsat Industrial Complex,
81700 Pasir Gudang, Johor,
Malaysia
Corrosion resistant steel strip for building
construction or civil engineering
Regulated substance : No performance determine

CERTIFICATE NO 335896 **Rev** 1 **ISSUE DATE** 2023-03-02

MANUFACTURER'S MARK	BHS	INSPECTOR'S STAMP		MELTING PROCESS	EAF, AOD
---------------------	------------	-------------------	--	-----------------	-----------------

CUSTOMER ACERINOX SCANDINAVIA AB SANDTAGSGATAN 2, S-211 24 MALMO, MALMO, SWEDEN. Sweden	ORDER No. BE12874	ITEM No. 7	DELIVERY NOTE No. DEL100015
	CUSTOMER ORDER No. IE4822		
	REQUIREMENTS AD 2000 W2 AD 2000 W10		

SPECIFICATIONS	MATERIAL GRADE	CASE	MATERIAL	MASS
EN 10028-7-2016	1.4307 / 1.4301	BPC2M02132	E0097064A01	1957 Kg
EN 10088-2-2014	1.4307 / 1.4301	BPC2M02134	E0097064A03	1957 Kg
EN 10088-4-2009	1.4307 / 1.4301			
ASME BPVC-IIA SA240 / SA240M-2021	304L / 304			
ASTM A240 / A240M-22	304L / 304			

TOLERANCE ISO 9445-2	HEAT No. E11309	TYPE X2CrNi 18-9
2B ; No. 2B	QUANTITY 76	TOTAL MASS 3914 Kg
PRODUCT Cold rolled, heat treated, pickled & skin passed	DIMENSIONS 1.5 mm x 1500 mm x 3000 mm	

CHEMICAL COMPOSITION(%)												
	C	S	P	Mn	Si	Cr	Ni	N				
Min						18.0	8.0					
Max	0.030	0.015	0.045	2.00	0.75	19.5	10.5	0.10				
Heat	0.021	0.002	0.034	1.37	0.35	18.2	8.0	0.07				

MECHANICAL PROPERTIES												
TEMPERATURE	DIRECTION	POSITION	Rm MPa	Rp0.2 MPa	Rp1.0 MPa	A50 %	A80 %	HRBW HRBW	HV10 HV10	GRAIN		
Ambient	Transverse	Requirement Min	540	230	260	40	45.000					
		Max	700					92	195			
Ambient	Transverse	Head	649	330	385	50	48	87	175	8.0		
		Tail	658	334	384	50	48.534	87				

INTERGRANULAR CORROSION

TEST	RESULT
EN ISO3651-2	PASS
ASTM A262 Practice E	PASS

Bahru Stainless Sdn. Bhd certifies that the analysis and material on this certification is correct and meets the specifications stated.
This document is issued without alteration or erasure and may only be reproduced in full.
The radiation level exhibited by this material is not greater than the normal background level.
This material is free from mercury contamination. This Material is PMI Tested.
D.o.P: <https://www.bahrustainless.com/en/download/certification/>
Visual and dimensional control: no exceptions. The delivery is in accordance with the order.
Test to verify batch and quality have been made.
This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015
Bahru Stainless Sdn. Bhd is ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified.
Material not weld repaired
BAHRU STAINLESS SDN. BHD IS MEMBER OF ACERINOX GROUP
Test Name Legend:
Rm - Tensile strength (UTS)
Rp0.2 - Yield/proof strength at 0.2% strain
Rp1.0 - Yield/proof strength at 1.0% strain
A5 - Elongation with gauge length = 5.65*sqrt(cross-sectional area)
A50 - Elongation with gauge length = 50mm
A80 - Elongation with gauge length = 80mm

HEAT TREATMENT (SOLUTION ANNEALED)

Anneal °C	Quench
1050 - 1100	AIR/SPRAY

Certified by TUV Rheinland to European Directive 2014/68/EU, for Pressure Equipment. Certificate no: 01 202 TWN/Q-13 0255

BAHRU STAINLESS SDN. BHD
PTD 4069 (PLO 108), Jalan Rumbia 4, Tanjung Langsat Industrial
Complex
81700 Pasir Gudang, Johor, Malaysia

Hairul Azlim Hamzah
QC ENGINEER

EXMET OÜ

Vana-Narva mnt 31


EE-74114 - Maardu

ESTONIA

Lieferbedingung / Specification:

EN 10025-2 S355J2+AR

Toleranz Tolerance: EN10060

Pos.	Product Type	Abmessungen/Dimensions										Stk/Pcs	Gewicht/Weight	Schmelze/Heat	Lieferzustand/Condition of delivery		
1	27 Round	6000										25.0	1	2052	39380	Walzzustand / As rolled	
2	27 Round	6000										25.0	4	8297	39577		
3																Kennzeichnung/Marking 	
4																Sachverständigen/Quality inspector:	
5																Schmelznr/Heatno.	
6																10.000-29.000 Konverter-verfahren/Oxygen converter	
7																30.000-99.999 Elektro-Ofen/El-arc-furnace	
8																Im Pfanne raffiniert/Ladle refined	
9																	
10																	
Total weight: 10349																	
	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Sn	Al	Nb	Ti	V	B	N	Ceq = Carbon-Equivalent (IIW - formula)
1	14	131	22	16	22	9	29	9	2		4	3	1	37		100	42
2	11	131	21	12	19	7	22	9	2		3	1	1	51		80	38
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
	% x 100		% x 1000		% x 100			% x 1000			% x 10.000		% x 100				
	Zugversuch/Tensile test			Kerbschlagbiegeversuch/Impact test/ISO - V					Hardness		DDS requires, that all billet suppliers make statement in writing to the effect; that the billets delivered have not been exposed to and / or contaminated with radiation. Bei Material mit einer Dicke unter 10 mm, werden die Kerbschlagproben zu einer Breite von entweder 7.5 mm oder 5.0 mm bearbeitet. For material with thickness less than 10 mm, the impact testpieces are machined to a width of either 7.5 mm or 5.0 mm.						
	ReH	Rm	A5	1	2	3	Mittel/Average	Temp									
1	386	563	31	35	41	36	37	-20									
2	399	519	37	49	61	63	58	-20									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
	MPa		%	Joule			°C	HB									



06
0045 CPR-0620
EN 10025-1

Wir bestätigen, dass die Lieferung den Forderungen der obengenannten Lieferbedingungen und des Auftrages entspricht.

We hereby certify, that the material has been produced and tested in compliance with the mentioned specification and with the requirement of the order.

Duferco Danish Steel A/S

Inge Beierholm

Inge Beierholm
Quality Department