

Page Date of creation: (Z02)

1 of 04.07.2017

Certificate No.: (A03)

067305

EN 10204:2004/3.1

Our order No.: (A08) 7231461

Your order No.: (A07) 7082096

Order registration date: 23.05.2017

Date of dispatch: 04.07.2017 B

Material requirements and customer information

Product: (A03)

Plate

Steel standard and grade: (B02) EN10025-2:2004 S355J2

Surface tolerance:

EN 10163-2 A1

Delivery condition: (B04) Normalized rolled (+N)

Length tolerance:

EN 10029 Table 3

Customer name and address (A06)

2121

X

Stena Stål AB Skeppsgatan 1 721 32 Västerås

Sweden

Certificate address

2121001

avi.vasteras@stenastal.se: anna-karin@jarnsida.se: cert.vasteras@stenastal.se Width tolerance:

EN 10029 Table 2

Thickness tolerance:

FN 10029 Class A

Flatness tolerance:

EN 10029 Table 4 Class N

Sweden

AVI.VASTERAS@STENASTAL.SE;CERT.VASTERAS@STENASTAL.SE;ANNA-KARIN@JARNSIDA.SE

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.

Details of supplied materials dimensions, weights and pieces

Heat/Slab	Plate No.	ltem	Thickness mm (809)		Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location	Customer remark (899)
51280H4	4709M	1	15.0	1000	2000	10	2 360	S355J2+N	Head	7082096
51285K1	4693M	3	15.0	1500	3000	6	3 180	S355J2+N	Head	7082096
51285M4	4762M	4	20.0	1000	2000	13	4 082	S355J2+N	Head	7082096
51470D3	4927M	4	20.0	1000	2000	15	4 710	S355J2+N	Head	7082096
51285L3	4749M	5	20.0	1250	2500	5	2 455	S355J2+N	Head	7082096
51285J3	4719M	6	20.0	1500	3000	6	4 242	S355J2+N	Head	7082096
51285J1	4725M	6	20.0	1500	3000	6	4 242	S355J2+N	Head	7082096
51283H3	4858M	6	20.0	1500	3000	6	4 242	S355J2+N	Head	7082096
					-	67	29 513			





Inspection representative NLMK DanSteel A/S (A05)



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Our order No.: (A08) 7231461 Your order No.: (A07) 7082096 Order registration date: 23.05.2017 Date of dispatch: 04.07.2017 B

Our	Our order No.: (A08) 7231461				Yo	ur ordei	No.: (A	07) /08	2096					Orde	r registrati	ion date: 23.0)5.2017	Date of dispatch:	04.07.2017 B
Che	emical	com	posi	tion	(hea	at ana	alysis	s) all	results	in %									
Heat	No. (B07)		С	Mn	Si	Р	s	Cr	Cu	Ni	Мо	Al	Nb	٧	Ti	N	В		
Set v	values:	min.			0.14							0.020							
		max.	0.20	1.60	0.25	0.025	0.025	0.300	0.400	0.300	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008		
5128	0		0.15	1.49	0.18	0.011	0.012	0.020	0.039	0.017	0.001	0.044	0.002	0.047	0.001	0.0089	0.0005		
5128	3		0.16	1.51	0.22	0.010	0.007	0.023	0.036	0.016	0.001	0.047	0.003	0.041	0.001	0.0094	0.0005		
5128	5		0.14	1.50	0.19	0.012	0.009	0.018	0.023	0.013	0.001	0.049	0.002	0.044	0.001	0.0091	0.0004		
5147	0		0.17	1.48	0.19	0.013	0.004	0.026	0.034	0.013	0.002	0.046	0.036	0.002	0.002	0.0036	0.0003		
Heat	No. (B07)		CEV																Remark (C70)
Set v	values:	min.																	
		max.	0.45																
51280	0		0.41																1346
51283	3		0.43																1 3 4 6
5128	5		0.41																1 3 4 6
51470	0		0.42																1346
Supp	olementary	/ inform	ation (C99)															
	= C + Mn/6 asic Oxyg						= Ladle	Refined,	4 = Ca	lcium Tr	eated, 5	= Vacu	ium Deg	gassed,	6 = Continu	uous Cast, 7 =	: Ingot		







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Our order No.: (A08) 7231461

Your order No.: (A07) 7082096

Order registration date: 23.05.2017

Heat/slab	Plate ID	Thickness	Shape	Loc.	Dir.	Yield	Yield	UTS Rm	Elong.	Elongation	Yield/UTS
(B07)	(B06)	mm	(C10)	(C01)	(C02)	MPa (C11)	type	MPa (C12)	type	% (C13)	
51285K1	4693M-2-3	15.0	R	Н	Т	418	R02	550	A5	29	0.76
51285K1	4693M-2-4	15.0	R	Н	T	418	R02	550	A5	29	0.76
51285K1	4693M-2-5	15.0	R	Н	T	418	R02	550	A5	29	0.76
51285K1	4693M-2-6	15.0	R	Н	T	418	R02	550	A5	29	0.76
51285K1	4693M-2-7	15.0	R	Н	Т	418	R02	550	A5	29	0.76
51285K1	4693M-2-8	15.0	R	Н	Т	418	R02	550	A5	29	0.76
51280H4	4709M-1-1	15.0	R	Н	Т	412	REH	539	A5	35	0.76
51280H4	4709M-1-10	15.0	R	Н	Т	412	REH	539	A5	35	0.76
51280H4	4709M-1-2	15.0	R	Н	T	412	REH	539	A5	35	0.76
51280H4	4709M-1-3	15.0	R	Н	Т	412	REH	539	A5	35	0.76
51280H4	4709M-1-4	15.0	R	Н	T	412	REH	539	A5	35	0.76
51280H4	4709M-1-5	15.0	R	Н	T	412	REH	539	A5	35	0.76
51280H4	4709M-1-6	15.0	R	Н	T	412	REH	539	A5	35	0.76
51280H4	4709M-1-7	15.0	R	Н	T	412	REH	539	A5	35	0.76
51280H4	4709M-1-8	15.0	R	Н	Т	412	REH	539	A5	35	0.76
51280H4	4709M-1-9	15.0	R	Н	Т	412	REH	539	A5	35	0.76
51285J3	4719M-1-1	20.0	R	Н	T	406	REH	540	A5	31	0.75
51285J3	4719M-1-2	20.0	R	Н	Т	406	REH	540	A5	31	0.75
51285J3	4719M-1-3	20.0	R	Н	T	406	REH	540	A5	31	0.75
51285J3	4719M-1-4	20.0	R	Н	Т	406	REH	540	A5	31	0.75
51285J3	4719M-2-1	20.0	R	Н	Т	406	REH	540	A5	31	0.75
51285J3	4719M-2-2	20.0	R	Н	Т	406	REH	540	A5	31	0.75
51285J1	4725M-1-10	20.0	R	Н	Т	410	REH	538	A5	27	0.76
51285J1	4725M-1-5	20.0	R	Н	Т	410	REH	538	A5	27	0.76
51285J1	4725M-1-6	20.0	R	Н	Т	410	REH	538	A5	27	0.76







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eat/slab	Plate ID	Thickness	Shape	Loc.	Dir.	Yield	Yield	UTS Rm	Elong.	Elongation	Yield/UTS
(B07)	(B06)	mm	(C10)	(C01)	(C02)	MPa (C11)	type	MPa (C12)	type	% (C13)	
285J1	4725M-1-7	20.0	R	Н	Т	410	REH	538	A5	27	0.76
285J1	4725M-1-8	20.0	R	Н	T	410	REH	538	A5	27	0.76
285J1	4725M-1-9	20.0	R	Н	T	410	REH	538	A5	27	0.76
285L3	4749M-1-10	20.0	R	Н	T	410	REH	538	A5	27	0.76
35L3	4749M-1-6	20.0	R	Н	T	410	REH	538	A5	27	0.76
85L3	4749M-1-7	20.0	R	Н	Т	410	REH	538	A5	27	0.76
285L3	4749M-1-8	20.0	R	Н	T	410	REH	538	A5	27	0.76
85L3	4749M-1-9	20.0	R	Н	T	410	REH	538	A5	27	0.76
285M4	4762M-1-1	20.0	R	Н	T	410	REH	538	A5	27	0.76
285M4	4762M-1-10	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-11	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-12	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-13	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-2	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-3	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-4	20.0	R	Н	Т	410	REH	538	A5	27	0.76
85M4	4762M-1-5	20.0	R	Н	T	410	REH	538	A5	27	0.76
35M4	4762M-1-6	20.0	R	Н	Т	410	REH	538	A5	27	0.76
85M4	4762M-1-7	20.0	R	Н	T	410	REH	538	A5	27	0.76
85M4	4762M-1-8	20.0	R	Н	Т	410	REH	538	A5	27	0.76
5M4	4762M-1-9	20.0	R	Н	T	410	REH	538	A5	27	0.76
3H3	4858M-2-1	20.0	R	Н	T	416	REH	546	A5	27	0.76
3H3	4858M-2-2	20.0	R	Н	Т	416	REH	546	A5	27	0.76
3H3	4858M-2-3	20.0	R	Н	Т	416	REH	546	A5	27	0.76
33H3	4858M-2-4	20.0	R	Н	Т	416	REH	546	A5	27	0.76







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Heat/slab	Plate ID	Thickness	Shape	Loc.	Dir.	Yield	Yield	UTS Rm	Elong.	Elongation	Yield/UTS
(B07)	(B06)	mm	(C10)	(C01)	(C02)	MPa (C11)	type	MPa (C12)	type	% (C13)	
51283H3	4858M-2-5	20.0	R	Н	Т	416	REH	546	A5	27	0.76
51283H3	4858M-2-6	20.0	R	Н	T	416	REH	546	A5	27	0.76
51470D3	4927M-1-1	20.0	R	Н	T	431	REH	566	A5	23	0.76
51470D3	4927M-1-10	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-11	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-12	20.0	R	Н	Т	431	REH	567	A5	27	0.76
51470D3	4927M-1-13	20.0	R	Н	Т	431	REH	567	A5	27	0.76
51470D3	4927M-1-14	20.0	R	Н	Т	431	REH	567	A5	27	0.76
51470D3	4927M-1-15	20.0	R	Н	Т	431	REH	567	A5	27	0.76
51470D3	4927M-1-2	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-3	20.0	R	Н	T	431	REH	566	A5	23	0.76
51470D3	4927M-1-4	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-5	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-6	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-7	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-8	20.0	R	Н	Т	431	REH	566	A5	23	0.76
51470D3	4927M-1-9	20.0	R	Н	Т	431	REH	566	A5	23	0.76



Dir.: (C02) T = transversal, L = longitudinal Shape: (C10) Ø = round, R = rectangular Original gauge length: 200 mm





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Your order No.: (A07) 7082096

Order registration date: 23.05.2017

Impact	testing	Impact tests	Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:												
Heat/slab	Plate ID	Position	Notch	Shape	Loc.	Dir.	Temp.	SV	SV	SV	AV				
(B07)	(B06)	(C01)	(C40)	(C41)	(C01)	(C02)	°C (C03)	J (C42)	J (C42)	J (C42)	J (C43)				
51285K1	4693M-2-3	1	CV	10x10	Н	L	-20	130	77	66	91				
51285K1	4693M-2-4	1	CV	10x10	Н	E.	-20	130	77	66	91				
51285K1	4693M-2-5	1	CV	10x10	Н	ī	-20	130	77	66	91				
51285K1	4693M-2-6	1	CV	10x10	Н	Ē.	-20	130	77	66	91				
51285K1	4693M-2-7	1	CV	10x10	Н	į.	-20	130	77	66	91				
51285K1	4693M-2-8	1	CV	10x10	Н	L	-20	130	77	66	91				
51280H4	4709M-1-1	1	CV	10x10	Н	E.	-20	146	127	149	141				
51280H4	4709M-1-10	1	CV	10x10	Н	E.	-20	146	127	149	141				
51280H4	4709M-1-2	1	CV	10x10	Н	ī	-20	146	127	149	141				
51280H4	4709M-1-3	1	CV	10x10	Н	1	-20	146	127	149	141				
51280H4	4709M-1-4	1	CV	10x10	Н	1	-20	146	127	149	141				
51280H4	4709M-1-5	1	CV	10x10	Н	ī	-20	146	127	149	141				
51280H4	4709M-1-6	1	CV	10x10	H	_	-20	146	127	149	141				
51280H4	4709M-1-7	1	CV	10x10	Н	ī	-20	146	127	149	141				
51280H4	4709M-1-8	1	CV	10x10	Н	ī	-20	146	127	149	141				
51280H4	4709M-1-9	1	CV	10x10	Н	1	-20	146	127	149	141				
51285J3	4719M-1-1	1	CV	10x10	Н	1	-20	185	169	205	186				
51285J3	4719M-1-2	1	CV	10x10	H	1	-20	185	169	205	186				
51285J3	4719M-1-3	1	CV	10x10	Н	ī	-20	185	169	205	186				
51285J3	4719M-1-4	1	CV	10x10	Н	ī	-20	185	169	205	186				
51285J3	4719M-2-1	1	CV	10x10	Н	ī	-20	185	169	205	186				
51285J3	4719M-2-2	1	CV	10x10	Н	ī	-20	185	169	205	186				
51285J1	4725M-1-10	1	CV	10x10	H	1	-20	148	148	150	149				
51285J1	4725M-1-5	1	CV	10x10	Н	1	-20	148	148	150	149				
	4725M-1-6	1	CV	10x10	н	L	-20	148	148	150	149				







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		impact tests	mpact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:												
Heat/slab	Plate ID	Position	Notch	Shape	Loc.	Dir.	Temp.	SV	sv	sv	AV				
(B07)	(B06)	(C01)	(C40)	(C41)	(C01)	(C02)	°C (C03)	J (C42)	J (C42)	J (C42)	J (C43)				
51285J1	4725M-1-7	1	CV	10x10	Н	L	-20	148	148	150	149				
51285J1	4725M-1-8	1	CV	10x10	Н	Ĺ	-20	148	148	150	149				
51285J1	4725M-1-9	1	CV	10x10	Н	1	-20	148	148	150	149				
51285L3	4749M-1-10	1	CV	10x10	Н	Ē	-20	148	148	150	149				
51285L3	4749M-1-6	1	CV	10x10	Н	ī	-20	148	148	150	149				
51285L3	4749M-1-7	1	CV	10x10	Н	Ī	-20	148	148	150	149				
51285L3	4749M-1-8	1	CV	10x10	Н	L	-20	148	148	150	149				
51285L3	4749M-1-9	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-1	1	CV	10x10	Н	Ĺ	-20	148	148	150	149				
51285M4	4762M-1-10	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-11	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-12	1	CV	10x10	Н	Ĺ	-20	148	148	150	149				
51285M4	4762M-1-13	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-2	1	CV	10x10	Н	Ĺ	-20	148	148	150	149				
51285M4	4762M-1-3	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-4	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-5	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-6	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-7	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-8	1	CV	10x10	Н	L	-20	148	148	150	149				
51285M4	4762M-1-9	1	CV	10x10	Н	L	-20	148	148	150	149				
51283H3	4858M-2-1	1	CV	10x10	Н	L	-20	165	155	162	161				
51283H3	4858M-2-2	1	CV	10x10	Н	L	-20	165	155	162	161				
51283H3	4858M-2-3	1	CV	10x10	Н	L	-20	165	155	162	161				
51283H3	4858M-2-4	1	CV	10x10	Н	1	-20	165	155	162	161				







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Date of dispatch: 04.07.2017 B

Impact	testing	Impact tests	were perform	ned in accorda	nce with EN 1	0045/ISO 148	-1 with results	as stated belo	ow:		
Heat/slab	Plate ID	Position	Notch	Shape	Loc.	Dir.	Temp.	SV	SV	sv	AV
(B07)	(B06)	(C01)	(C40)	(C41)	(C01)	(C02)	°C (C03)	J (C42)	J (C42)	J (C42)	J (C43)
51283H3	4858M-2-5	1	CV	10x10	Н	L	-20	165	155	162	161
51283H3	4858M-2-6	1	CV	10x10	Н	L	-20	165	155	162	161
51470D3	4927M-1-1	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-10	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-11	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-12	1	CV	10x10	Н	L	-20	204	194	216	205
51470D3	4927M-1-13	1	CV	10x10	Н	L	-20	204	194	216	205
51470D3	4927M-1-14	1	CV	10x10	Н	L	-20	204	194	216	205
51470D3	4927M-1-15	1	CV	10x10	Н	L	-20	204	194	216	205
51470D3	4927M-1-2	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-3	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-4	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-5	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-6	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-7	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-8	1	CV	10x10	Н	L	-20	179	220	197	199
51470D3	4927M-1-9	1	CV	10x10	Н	L	-20	179	220	197	199
Suppleme	ntary Informat	tion (C99)									

Position: (CO1) 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.: (CO1) H = head, T = tail

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







Date of creation: (Z02)

9 of 9 04.07.2017

EN 10204:2004/3.1

Certificate No.: (A03)

067305

Our order No.: (A08) 7231461

Your order No.: (A07) 7082096

Order registration date: 23.05.2017

Date of dispatch: 04.07.2017 B

Page

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). DOP's could be down-loaded from www.dansteel.dk



TÜV-NORD 0045-CPR-0554

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





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

Information description

acc. to EN 10168

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