



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 1 of 5
Date of creation: (Z02) 17.09.2021
Certificate No.: (A03) 131311/1

Our order No.: (A08) 1362581 Your order No.: (A07) P091891 Order registration date: 15.06.2021 Date of dispatch: 17.09.2021 B

Material requirements and customer information

Product: (A03) Plate **Steel standard and grade:** (B02) EN10025-2:2019 S355K2 **Surface tolerance:** EN 10163-2 B3

Delivery condition: (B04) Furnace normalized (N) **Length tolerance:** EN 10029 Table 3

Customer name and address (A06) **Certificate address**
 4102001
 BE Group Oy AB certificates@begroup.fi;
 BOX 54 Finland
 15101 LAHTI
 Finland CERTIFICATES@BEGROUP.FI

Supplementary information: (C04)
 Fully Killed and Fine Grain
 Plates <= 25mm are Normalised at 900°C for 3 minutes.
 Plates > 25mm are Normalised at 900°C for 5 minutes.

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 (B07)	Plate No. (B06)	Item	Thickness mm (B09)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location (B99)	Customer remark
59533B2	1694G	8	35.0	2000	6000	1	3 297	S355K2+N	Head	P091891
59799A1	2301G	10	40.0	2000	6000	1	3 768	S355K2+N	Head	P091891
59811E3	4893G	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091891
59799B1	5055G	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091891
59811E2	5171G	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091891
						8	29 673			



(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)
Zibrandt Greisen Z. Swish



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(A02)

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Chemical composition (heat analysis) all results in %

Heat No. (B07)	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.									0.020					
	max.	0.20	1.60	0.55	0.025	0.025	0.400	0.300	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008
59533		0.17	1.48	0.22	0.013	0.009	0.028	0.021	0.003	0.038	0.041	0.001	0.001	0.0025	0.0002
59799		0.18	1.54	0.33	0.010	0.003	0.020	0.012	0.004	0.037	0.032	0.001	0.001	0.0042	0.0003
59811		0.17	1.52	0.37	0.010	0.004	0.025	0.030	0.004	0.039	0.031	0.001	0.002	0.0034	0.0003

Heat No. (B07) CEV Remark (C70)

Set values: min. max. 0.47

59533 0.43 1 3 4 6
59799 0.44 1 3 4 6
59811 0.44 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 Treated, 6 = Continuous Cast, 7 = Ingot



DanSteel

Havnvej 33
DK - 3300 Fredrikssøværk

(A01)



(A04)

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(A02)

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Tensile testing

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

Heat/slab (B07)	Plate ID (B06)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
59533B2	1694G-1-2	35.0	R	H	T	354	R02	512	A5	29	0.69
59799A1	2301G-1-2	40.0	R	H	T	383	R02	550	A5	27	0.70
59811E3	4893G-1-1	40.0	R	H	T	365	R02	534	A5	29	0.68
59811E3	4893G-1-2	40.0	R	H	T	365	R02	534	A5	29	0.68
59799B1	5055G-1-1	40.0	R	H	T	373	R02	543	A5	28	0.69
59799B1	5055G-1-2	40.0	R	H	T	373	R02	543	A5	28	0.69
59811E2	5171G-1-1	40.0	R	H	T	378	REH	545	A5	28	0.69
59811E2	5171G-1-2	40.0	R	H	T	378	REH	545	A5	28	0.69

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



DanSteel

Havnvej 33

DK - 3300 Fredrikssøværk

(A01)



(A04)

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Zibrandt Greisen

Z. Svendsen



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Impact testing

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

Heat/lab (B07)	Plate ID (B06)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
59533B2	1694G-1-2	1	CV	10x10	H	L	-20	138	135	168	147
59799A1	2301G-1-2	1	CV	10x10	H	L	-20	222	222	210	218
59811E3	4893G-1-1	1	CV	10x10	H	L	-20	202	234	187	208
59811E3	4893G-1-2	1	CV	10x10	H	L	-20	202	234	187	208
59799B1	5055G-1-1	1	CV	10x10	H	L	-20	137	156	158	150
59799B1	5055G-1-2	1	CV	10x10	H	L	-20	137	156	158	150
59811E2	5171G-1-1	1	CV	10x10	H	L	-20	231	230	194	218
59811E2	5171G-1-2	1	CV	10x10	H	L	-20	231	230	194	218

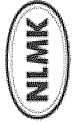
Supplementary Information (C99)

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



DanSteel
Havnvej 33
DK - 3300 Fredrikssøværk



(A04)

(A01)

Zibrandt Greisen

Z. Swish

Inspection representative NLMK DanSteel A/S (A05)



Europe – Plate

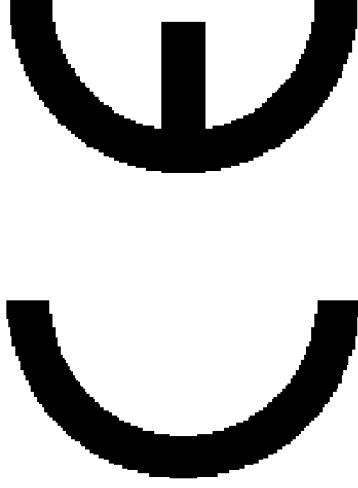
Inspection Certificate ^(A02)

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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 010CPR2013-07-01.



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 II, Section 5) for ferrous nuclides.
Manufactured in Denmark



^(A01)

DanSteel
Havnvej 33
DK - 3300 Fredrikssøværk

^(A04)



Inspection representative NLMK DanSteel A/S ^(A05)

Zibrandt Greisen

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	