



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

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Date of creation: (Z02) 29.09.2021  
Certificate No.: (A03) 131871

Our order No.: (A08) 1362581 Your order No.: (A07) P091891 Order registration date: 15.06.2021 Date of dispatch: 29.09.2021 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**  
 4102 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
59772G3	7322G	7	30.0	2000	6000	1	2 826	S355K2+N	Head	P091891
59739F1	7386G	7	30.0	2000	6000	3	8 478	S355K2+N	Head	P091891
59772I3	7685G	7	30.0	2000	6000	3	8 478	S355K2+N	Head	P091891
59772I2	7769G	7	30.0	2000	6000	3	8 478	S355K2+N	Head	P091891
59772I1	7772G	7	30.0	2000	6000	3	8 478	S355K2+N	Head	P091891
59822F2	7840G	7	30.0	2000	6000	1	2 826	S355K2+N	Head	P091891
						14	39 564			



(A01)



(A04)

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



Europe – Plate

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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.	0.20	1.60	0.25	0.025	0.025	0.400	0.300	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008
	max.	0.17	1.50	0.20	0.021	0.031	0.030	0.016	0.004	0.034	0.042	0.002	0.001	0.0052	0.0003
59739		0.17	1.45	0.18	0.025	0.036	0.040	0.021	0.005	0.039	0.038	0.002	0.001	0.0045	0.0002
59772		0.17	1.49	0.21	0.010	0.023	0.018	0.010	0.002	0.040	0.041	0.001	0.001	0.0037	0.0002
59822															

Heat No. (B07) CEV Remark (C70)

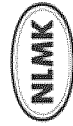
Set values: min. max. 0.45

59739 0.43 1 3 4 6  
59772 0.42 1 3 4 6  
59822 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 Treated, 6 = Continuous Cast, 7 = Ingot



DanSteel  
Havnvej 33  
DK - 3300 Fredrikssøværk

(A01)



(A04)

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Z. Swish



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# Inspection Certificate

(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
59772G3	7322G-2-1	30.0	R	H	T	368	REH	535	A5	26	0.69
59739F1	7386G-1-1	30.0	R	H	T	379	R02	533	A5	31	0.71
59739F1	7386G-1-2	30.0	R	H	T	379	R02	533	A5	31	0.71
59739F1	7386G-2-1	30.0	R	H	T	379	R02	533	A5	31	0.71
59772I3	7685G-1-1	30.0	R	H	T	366	REH	526	A5	28	0.70
59772I3	7685G-1-2	30.0	R	H	T	366	REH	526	A5	28	0.70
59772I3	7685G-2-1	30.0	R	H	T	364	REH	521	A5	28	0.70
59772I2	7769G-1-1	30.0	R	H	T	375	REH	533	A5	26	0.70
59772I2	7769G-1-2	30.0	R	H	T	375	REH	533	A5	26	0.70
59772I2	7769G-2-1	30.0	R	H	T	375	REH	533	A5	26	0.70
59772I1	7772G-1-1	30.0	R	H	T	364	REH	521	A5	28	0.70
59772I1	7772G-1-2	30.0	R	H	T	364	REH	521	A5	28	0.70
59772I1	7772G-2-1	30.0	R	H	T	364	REH	521	A5	28	0.70
59822F2	7840G-1-1	30.0	R	H	T	366	REH	522	A5	28	0.70

### Supplementary information

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

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

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

Original gauge length: 200 mm



DanSteel  
Havnavej 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/slab (B07)	Plate ID (B06)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV (C42)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
59772G3	7322G-2-1	1	CV	10x10	H	L	-20	86	86	104	104	92	92
59739F1	7386G-1-1	1	CV	10x10	H	L	-20	88	144	131	131	121	121
59739F1	7386G-1-2	1	CV	10x10	H	L	-20	88	144	131	131	121	121
59739F1	7386G-2-1	1	CV	10x10	H	L	-20	88	144	131	131	121	121
59772I3	7685G-1-1	1	CV	10x10	H	L	-20	96	105	94	94	98	98
59772I3	7685G-1-2	1	CV	10x10	H	L	-20	96	105	94	94	98	98
59772I3	7685G-2-1	1	CV	10x10	H	L	-20	96	85	95	95	92	92
59772I2	7769G-1-1	1	CV	10x10	H	L	-20	49	71	89	89	70	70
59772I2	7769G-1-2	1	CV	10x10	H	L	-20	49	71	89	89	70	70
59772I2	7769G-2-1	1	CV	10x10	H	L	-20	49	71	89	89	70	70
59772I1	7772G-1-1	1	CV	10x10	H	L	-20	96	85	95	95	92	92
59772I1	7772G-1-2	1	CV	10x10	H	L	-20	96	85	95	95	92	92
59772I1	7772G-2-1	1	CV	10x10	H	L	-20	96	85	95	95	92	92
59822F2	7840G-1-1	1	CV	10x10	H	L	-20	196	227	247	247	223	223

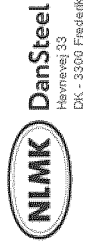
### Supplementary Information (C99)

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



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swish



Europe – Plate

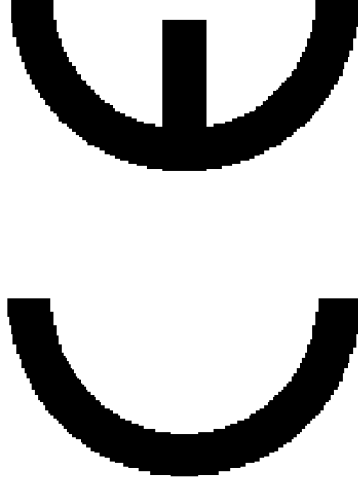
# Inspection Certificate (A02)

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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](http://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



**DanSteel** (A01)  
Havnvejs 33  
DK - 3300 Fredrikssøværk



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

## 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