



Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02)

21.01.2022

Certificate No.: (A03)

137758

Our order No.: (A08) 1373441

Your order No.: (A07) P094273

Order registration date: 13.10.2021

Date of dispatch: 21.01.2022 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

Width tolerance: EN 10029 Table 2

4102

4102001

BE Group Oy AB

certificates@begroup.fi;

Thickness tolerance: EN 10029 Class A

BOX 54

15101 LAHTI

Finland

Flatness tolerance: EN 10029 Table 4 Class N

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
6021313	7619K	1	60.0	2000	6000	2	11 304	S355K2+N	Head	P094273
60220B3	7621K	1	60.0	2000	6000	2	11 304	S355K2+N	Head	P094273
60393C3	5964K	2	65.0	2000	6000	1	6 123	S355K2+N	Head	P094273
						5	28 731			



DanSteel

Havnvejsvej 33

DK - 3300 Fredrikssøværk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swish



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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.	0.22	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
60213		0.17	1.47	0.20	0.008	0.019	0.016	0.009	0.002	0.035	0.041	0.002	0.001	0.0051	0.0003
60220		0.17	1.48	0.24	0.013	0.003	0.045	0.020	0.002	0.034	0.041	0.001	0.001	0.0037	0.0003
60393		0.18	1.49	0.21	0.012	0.007	0.033	0.016	0.002	0.042	0.042	0.001	0.001	0.0037	0.0002

Heat No. (B07) CEV

Remark (C70)

Set values: min. max. 0.47

60213 0.42  
60220 0.42  
60393 0.44

1 3 4 6  
1 3 4 6  
1 3 4 5 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)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



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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 (C10)	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
60393C3	5964K-1-1	65.0	R	H	T	355	REH	509	A5	32	0.70
6021313	7619K-1-1	60.0	R	H	T	349	REH	506	A5	30	0.69
6021313	7619K-1-2	60.0	R	H	T	349	REH	506	A5	30	0.69
60220B3	7621K-1-1	60.0	R	H	T	357	REH	508	A5	30	0.70
60220B3	7621K-1-2	60.0	R	H	T	357	REH	508	A5	30	0.70

### 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

## 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 J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
60393C3	5964K-1-1	1	CV	10x10	H	L	-20	132	125	149	135
6021313	7619K-1-1	1	CV	10x10	H	L	-20	179	221	181	194
6021313	7619K-1-2	1	CV	10x10	H	L	-20	179	221	181	194
60220B3	7621K-1-1	1	CV	10x10	H	L	-20	232	194	196	207
60220B3	7621K-1-2	1	CV	10x10	H	L	-20	232	194	196	207

### 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. Svoboda



Europe – Plate

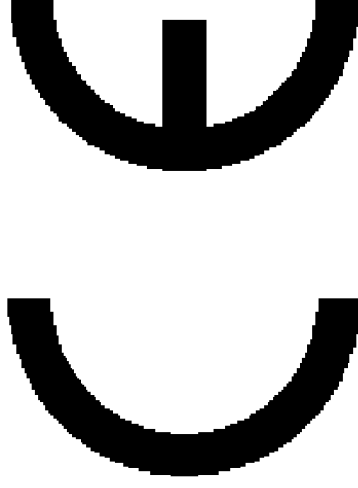
# Inspection Certificate <sup>(A02)</sup>

EN 10204:2004/3.1

Page 4 of 4  
Date of creation: <sup>(Z02)</sup> 21.01.2022  
Certificate No.: <sup>(A03)</sup> 137758

**Our order No.:** <sup>(A08)</sup> 1373441      **Your order No.:** <sup>(A07)</sup> P094273      **Order registration date:** 13.10.2021      **Date of dispatch:** 21.01.2022      **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](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



<sup>(A01)</sup>

**DanSteel**  
Havnvej 33  
DK - 3300 Fredrikssøværk

<sup>(A04)</sup>



Inspection representative NLMK DanSteel A/S <sup>(A05)</sup>

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	