

Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02)

09.07.2021

Certificate No.: (A03) 128850/1

Our order No.: (A08) 1359541

Your order No.: (A07) P091127

Order registration date: 24.05.2021

Date of dispatch: 09.07.2021 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

Width tolerance: EN 10029 Table 2

4102001

Thickness tolerance: EN 10029 Class A

BE Group Oy AB

Flatness tolerance: EN 10029 Table 4 Class N

BOX 54

certificates@begroup.fi;

15101 LAHTI

Finland

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
58944A4	0946F	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091127
59309G1	1695F	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091127
59495I3	9265E	10	40.0	2000	6000	2	7 536	S355K2+N	Head	P091127
						6	22 608			



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin



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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
58944	0.18	1.45	0.40	0.011	0.003	0.021	0.022	0.011	0.006	0.042	0.045	0.071	0.001	0.0041	0.0002
59309	0.19	1.43	0.34	0.014	0.005	0.036	0.044	0.024	0.006	0.035	0.017	0.004	0.003	0.0038	0.0002
59495	0.17	1.48	0.33	0.013	0.009	0.030	0.030	0.017	0.003	0.040	0.036	0.001	0.001	0.0047	0.0003

Heat No. (B07) CEV

Set values: min. max. 0.47

58944 0.44
59309 0.44
59495 0.42

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

Remark (C70)

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



(A01)



(A04)

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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 (C11)	UTS Rm MPa (C12)	Elong. type (C12)	Elongation % (C13)	Yield/UTS
58944A4	0946F-1-1	40.0	R	H	T	414	REH	569	A5	29	0.73
58944A4	0946F-1-2	40.0	R	H	T	414	REH	569	A5	29	0.73
59309G1	1695F-1-1	40.0	R	H	T	375	REH	543	A5	30	0.69
59309G1	1695F-1-2	40.0	R	H	T	375	REH	543	A5	30	0.69
59495I3	9265E-1-1	40.0	R	H	T	386	R02	534	A5	30	0.72
59495I3	9265E-1-2	40.0	R	H	T	386	R02	534	A5	30	0.72

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

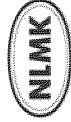
Impact testing

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)
58944A4	0946F-1-1	1	CV	10x10	H	L	-20	189	160	145	165
58944A4	0946F-1-2	1	CV	10x10	H	L	-20	189	160	145	165
59309G1	1695F-1-1	1	CV	10x10	H	L	-20	156	154	172	161
59309G1	1695F-1-2	1	CV	10x10	H	L	-20	156	154	172	161
59495I3	9265E-1-1	1	CV	10x10	H	L	-20	206	155	186	182
59495I3	9265E-1-2	1	CV	10x10	H	L	-20	206	155	186	182

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
Hovrevej 33
DK-3300 Fredensborg

(A01)

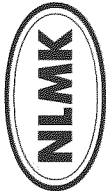


(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swish



Europe – Plate

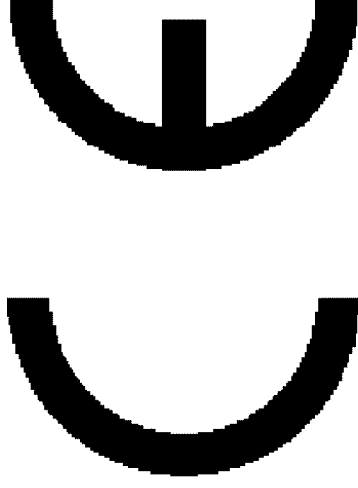
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Our order No.: ^(A08) 1359541 **Your order No.:** ^(A07) P091127 **Order registration date:** 24.05.2021 **Date of dispatch:** 09.07.2021 **B**

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 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
Hovrevej 33
DK - 3300 Fredensborg

^(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	