



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02)

08.06.2022

Certificate No.: (A03)

144755/3

Our order No.: (A08) 2386131

Your order No.: (A07) P097977

Order registration date: 01.04.2022

Date of dispatch: 08.06.2022

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) Normalized rolled (+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

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	Customer remark (B99)
61307G2	6596R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61307G1	6597R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61307J3	6710R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61307J1	6712R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61307B2	6717R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61307B1	6718R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61306A2	6729R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
61306A1	6730R	8	35.0	2000	6000	3	9 891	S355K2+N	Head	P097977
						24	79 128			



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin

Havnavej 33
DK - 3300 Frederiksvaerk



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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
61306		0.18	1.43	0.33	0.006	0.001	0.024	0.013	0.002	0.033	0.016	0.001	0.002	0.0044	0.0002
61307		0.18	1.48	0.37	0.010	0.002	0.031	0.013	0.003	0.043	0.017	0.003	0.002	0.0041	0.0002

Heat No. (B07) CEV Remark (C70)

Set values: min. max. 0.47

61306 0.43 1 3 4 6
61307 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 Degassed, 6 = Continuous Cast, 7 = Ingot



DanSteel
Havnvej 33
DK - 3300 Frederiksøer

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swirish



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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
61307G2	6596R-1-1	35.0	R	H	T	391	REH	572	A5	26	0.68
61307G2	6596R-1-2	35.0	R	H	T	391	REH	572	A5	26	0.68
61307G2	6596R-1-3	35.0	R	H	T	391	REH	572	A5	26	0.68
61307G1	6597R-1-1	35.0	R	H	T	441	REH	575	A5	24	0.77
61307G1	6597R-1-2	35.0	R	H	T	441	REH	575	A5	24	0.77
61307G1	6597R-1-3	35.0	R	H	T	441	REH	575	A5	24	0.77
61307J3	6710R-1-1	35.0	R	H	T	441	REH	575	A5	24	0.77
61307J3	6710R-1-2	35.0	R	H	T	441	REH	575	A5	24	0.77
61307J3	6710R-1-3	35.0	R	H	T	441	REH	575	A5	24	0.77
61307J1	6712R-1-1	35.0	R	H	T	441	REH	575	A5	24	0.77
61307J1	6712R-1-2	35.0	R	H	T	428	R02	568	A5	25	0.75
61307J1	6712R-1-3	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B2	6717R-1-1	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B2	6717R-1-2	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B2	6717R-1-3	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B1	6718R-1-1	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B1	6718R-1-2	35.0	R	H	T	428	R02	568	A5	25	0.75
61307B1	6718R-1-3	35.0	R	H	T	428	R02	568	A5	25	0.75
61306A2	6729R-1-1	35.0	R	H	T	422	R02	572	A5	24	0.74
61306A2	6729R-1-2	35.0	R	H	T	422	R02	572	A5	24	0.74
61306A2	6729R-1-3	35.0	R	H	T	422	R02	572	A5	24	0.74
61306A1	6730R-1-1	35.0	R	H	T	422	R02	572	A5	24	0.74
61306A1	6730R-1-2	35.0	R	H	T	422	R02	572	A5	24	0.74
61306A1	6730R-1-3	35.0	R	H	T	422	R02	572	A5	24	0.74



(A01)

(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

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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
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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

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(A01)



(A04)

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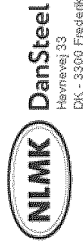
Order registration date: 01.04.2022

Date of dispatch: 08.06.2022 B

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)		AV (C43)	
								J	J	J	J
61307G2	6596R-1-1	1	CV	10x10	H	L	-20	107	159	131	131
61307G2	6596R-1-2	1	CV	10x10	H	L	-20	107	159	131	131
61307G2	6596R-1-3	1	CV	10x10	H	L	-20	107	159	131	131
61307G1	6597R-1-1	1	CV	10x10	H	L	-20	169	156	159	159
61307G1	6597R-1-2	1	CV	10x10	H	L	-20	169	156	159	159
61307G1	6597R-1-3	1	CV	10x10	H	L	-20	169	156	159	159
61307J3	6710R-1-1	1	CV	10x10	H	L	-20	169	156	159	159
61307J3	6710R-1-2	1	CV	10x10	H	L	-20	169	156	159	159
61307J3	6710R-1-3	1	CV	10x10	H	L	-20	169	156	159	159
61307J1	6712R-1-1	1	CV	10x10	H	L	-20	169	156	159	159
61307J1	6712R-1-2	1	CV	10x10	H	L	-20	105	167	130	130
61307J1	6712R-1-3	1	CV	10x10	H	L	-20	105	167	130	130
61307B2	6717R-1-1	1	CV	10x10	H	L	-20	105	167	130	130
61307B2	6717R-1-2	1	CV	10x10	H	L	-20	105	167	130	130
61307B2	6717R-1-3	1	CV	10x10	H	L	-20	105	167	130	130
61307B1	6718R-1-1	1	CV	10x10	H	L	-20	105	167	130	130
61307B1	6718R-1-2	1	CV	10x10	H	L	-20	105	167	130	130
61307B1	6718R-1-3	1	CV	10x10	H	L	-20	105	167	130	130
61306A2	6729R-1-1	1	CV	10x10	H	L	-20	167	177	155	155
61306A2	6729R-1-2	1	CV	10x10	H	L	-20	167	177	155	155
61306A2	6729R-1-3	1	CV	10x10	H	L	-20	167	177	155	155
61306A1	6730R-1-1	1	CV	10x10	H	L	-20	167	177	155	155
61306A1	6730R-1-2	1	CV	10x10	H	L	-20	167	177	155	155
61306A1	6730R-1-3	1	CV	10x10	H	L	-20	167	177	155	155



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swish



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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)	AV J (C43)

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 Frederiksøer

(A01)



(A04)

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Zibrandt Greisen

Z. Greisen



Europe – Plate

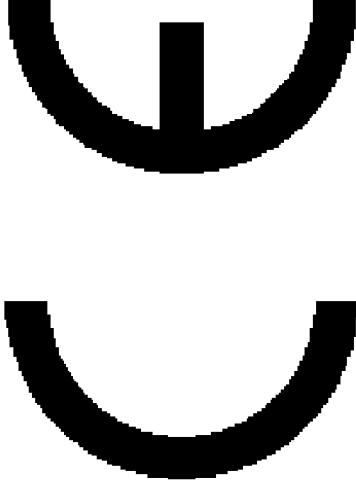
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We hereby certify that the material has been made and tested in accordance with the mentioned specification(s).
Certified according to Construction Products Regulations (305/2011/EU) by TÜV NORD Systems GmbH (Notified Body Reg. No. 0045).
For Declaration 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)

^(A04)



Inspection representative NLMK DanSteel A/S ^(A05)

Zibrandt Greisen

Z. 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	