



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 1 of 23

Date of creation: 18.01.2018

Certificate No.: 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

Material requirements and customer information

Product: (A03)	Plate	Steel standard and grade: (B02)	EN10025-2:2004 S355K2	Surface tolerance:	EN 10163-2 A2
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
4118		4118001		Thickness tolerance:	EN 10029 Class A
OY Kontino AB		kristina.raisanen@kontino.fi;		Flatness tolerance:	EN 10029 Table 4 Class N
PL 27		a.faktarauskas@eu.nlmk.com			
01301 VANTAA					
Finland		Finland			
		KRISTINA.RAISANEN@KONTINO.FI;a.faktarauskas@eu.nlmk.com;a.faktarauskas@eu.nlmk.com			

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)
52475K5	0937B	1	10.0	2000	6000	2	1 884	S355K2+N	Head	1111416
52475K4	0938B	1	10.0	2000	6000	2	1 884	S355K2+N	Head	1111416
52475K3	0939B	1	10.0	2000	6000	2	1 884	S355K2+N	Head	1111416
52475K2	0944B	1	10.0	2000	6000	2	1 884	S355K2+N	Head	1111416
52475K1	0945B	1	10.0	2000	6000	2	1 884	S355K2+N	Head	1111416
52353M5	8495A	1	10.0	2000	6000	1	942	S355K2+N	Head	1111416
52480E2	0209B	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416
52480E1	0255B	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416
52480D1	0258B	2	12.0	2000	6000	3	3 390	S355K2+N	Head	1111416
52480A1	0260B	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416



DanSteel

Hämeenlinna 33

DK - 3360 Fredriksværk



(A04)

121184



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen

Kontino Oy Ab



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 2 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 B

Details of supplied materials dimensions, weights and pieces

Heat/Slab (B07)	Plate No. (B06)	Item	Thickness mm (B08)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location	Customer remark (B09)
52480D3	0968B	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416
52480D2	0969B	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416
52414H3	8765A	2	12.0	2000	6000	4	4 520	S355K2+N	Head	1111416
52411I2	8143A	3	18.0	2000	6000	1	1 696	S355K2+N	Head	1111416
52478A3	8651A	3	18.0	2000	6000	3	5 088	S355K2+N	Head	1111416
52475E1	8719A	3	18.0	2000	6000	4	6 784	S355K2+N	Head	1111416
52480E3	0207B	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52403D5	7878A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52403D1	7944A	4	20.0	2000	6000	1	1 884	S355K2+N	Head	1111416
52411I3	8057A	4	20.0	2000	6000	2	3 768	S355K2+N	Head	1111416
52411A5	8134A	4	20.0	2000	6000	1	1 884	S355K2+N	Head	1111416
52414G3	8341A	4	20.0	2000	6000	1	1 884	S355K2+N	Head	1111416
52416C3	8353A	4	20.0	2000	6000	1	1 884	S355K2+N	Head	1111416
52414G1	8354A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52393A3	8556A	4	20.0	2000	6000	2	3 768	S355K2+N	Head	1111416
52476B3	8728A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52408I2	8859A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52408I1	8860A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480A5	8910A	4	20.0	2000	6000	2	3 768	S355K2+N	Head	1111416
52408A1	9232A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52221D2	4497A	5	20.0	2500	6000	1	2 355	S355K2+N	Head	1111416
52403H3	7859A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411A3	7953A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411B4	8050A	5	20.0	2500	6000	3	7 065	S355K2+N	Head	1111416
52411G3	8056A	5	20.0	2500	6000	3	7 065	S355K2+N	Head	1111416
52411C2	8060A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411I5	8066A	5	20.0	2500	6000	3	7 065	S355K2+N	Head	1111416



DanSteel
Hornsea 53
DN - 3320 Frickley

(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 3 of 23
Date of creation: (A02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 B

Details of supplied materials dimensions, weights and pieces

Heav/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 (B09)
52411G1	8140A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411C1	8141A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411I1	8150A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411C4	8151A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52411H3	8252A	5	20.0	2500	6000	3	7 065	S355K2+N	Head	1111416
52411H2	8262A	5	20.0	2500	6000	3	7 065	S355K2+N	Head	1111416
52393B5	7731A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52398J3	7868A	6	20.0	2500	9000	1	3 533	S355K2+N	Head	1111416
52411C2	8060A	6	20.0	2500	9000	1	3 533	S355K2+N	Head	1111416
52416G2	8260A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52411B1	8059A	7	22.0	2000	6000	4	8 288	S355K2+N	Head	1111416
52411G5	8067A	7	22.0	2000	6000	3	6 216	S355K2+N	Head	1111416
52411G4	8106A	7	22.0	2000	6000	3	6 216	S355K2+N	Head	1111416
52221D5	4503A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52414G2	8253A	8	25.0	2000	6000	4	9 420	S355K2+N	Head	1111416
52411H4	8263A	8	25.0	2000	6000	4	9 420	S355K2+N	Head	1111416
52416G3	8269A	8	25.0	2000	6000	4	9 420	S355K2+N	Head	1111416
52416G1	8270A	8	25.0	2000	6000	3	7 065	S355K2+N	Head	1111416
52416C4	8345A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52416E3	8584A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52475B1	8717A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52475A6	8783A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52475A5	8784A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52480B1	0206B	9	25.0	2500	6000	3	8 832	S355K2+N	Head	1111416
52411A1	7869A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52403D4	7896A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52411A2	7906A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 4 of 23
Date of creation: (202) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

Details of supplied materials dimensions, weights and pieces

Heat/Slab (B07)	Plate No. (B08)	Item	Thickness mm (B09)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location	Customer remark (B99)
52411B2	8096A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52411I4	8097A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52411C5	8107A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52414G4	8259A	9	25.0	2500	6000	3	8 832	S355K2+N	Head	1111416
52411H1	8307A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52393H5	8483A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52393A5	8555A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52393A2	8583A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52398E5	8786A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52398E4	8789A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52398E2	8796A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52411F5	9221A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52406A4	4975A	10	25.0	2500	8000	2	7 850	S355K2+N	Head	1111416
52403H4	7860A	10	25.0	2500	8000	2	7 850	S355K2+N	Head	1111416
52403H1	7870A	10	25.0	2500	8000	2	7 850	S355K2+N	Head	1111416
						194	420 179			



DanSteel
Hammel 33
DK - 3320 Fredrikssø

(A01)



Inspection representative NLMM DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 5 of 23

Date of creation: (202) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

Chemical composition (heat analysis) all results in %

Heat No. (807)	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.	max.	0.20	0.25	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.020	
52221	0.18	1.50	0.18	0.011	0.004	0.029	0.043	0.023	0.005	0.039	0.039	0.003	0.002	0.0038	0.0003
52353	0.14	1.45	0.19	0.012	0.009	0.028	0.051	0.025	0.004	0.033	0.003	0.047	0.001	0.0083	0.0003
52393	0.15	1.50	0.19	0.009	0.011	0.025	0.034	0.026	0.002	0.040	0.003	0.046	0.001	0.0098	0.0003
52398	0.15	1.51	0.16	0.012	0.011	0.024	0.036	0.020	0.003	0.035	0.003	0.043	0.001	0.0080	0.0002
52403	0.15	1.49	0.18	0.009	0.009	0.030	0.028	0.022	0.003	0.039	0.003	0.046	0.001	0.0081	0.0003
52406	0.15	1.50	0.17	0.009	0.012	0.032	0.031	0.023	0.001	0.035	0.003	0.043	0.001	0.0097	0.0003
52408	0.16	1.50	0.19	0.009	0.011	0.026	0.034	0.026	0.001	0.041	0.003	0.044	0.002	0.0100	0.0003
52411	0.15	1.49	0.18	0.011	0.009	0.034	0.033	0.023	0.001	0.038	0.003	0.044	0.001	0.0080	0.0002
52414	0.15	1.51	0.17	0.010	0.015	0.022	0.035	0.017	0.003	0.035	0.003	0.043	0.001	0.0106	0.0003
52416	0.15	1.52	0.17	0.009	0.011	0.019	0.033	0.016	0.002	0.041	0.003	0.042	0.001	0.0095	0.0003
52475	0.13	1.45	0.18	0.011	0.009	0.025	0.041	0.022	0.002	0.038	0.004	0.041	0.001	0.0084	0.0003
52476	0.14	1.45	0.19	0.013	0.006	0.017	0.019	0.014	0.001	0.037	0.004	0.043	0.001	0.0074	0.0003
52478	0.14	1.46	0.18	0.007	0.005	0.022	0.029	0.015	0.002	0.048	0.003	0.043	0.001	0.0082	0.0003
52480	0.14	1.46	0.20	0.013	0.009	0.024	0.028	0.021	0.002	0.035	0.003	0.048	0.001	0.0080	0.0003
Heat No. (807)	CEV														Remark (C70)
Set values:	min.	max.	0.45												
52221	0.44														1346
52353	0.40														1346
52393	0.42														1346
52398	0.42														1346
52403	0.42														1346
52406	0.42														1346
52408	0.42														1346
52411	0.42														1346
52414	0.41														1346



DanSteel

Harvested 33

Ex. 3300 Frankfurt

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Inspection Certificate

EN 10204:2004/3.1

Page	6 of 23
Date of creation:	(202) 18.01.2018
Certificate No.:	(A03) 074469/2

Our order No.: (A08) 7248241

48241:

Your order No.: (A07)

111416:

Order registration date: 07.12.2017

Date of dispatch:

01.2018 B

Chemical composition (heat analysis)

Heat No. (807)	CEV	Remark (C70)
Set values:	min. 0.45	
	max.	
52416	0.42	1 3 4 6
52475	0.39	1 3 4 6
52476	0.39	1 3 4 6
52478	0.40	1 3 4 6
52480	0.40	1 3 4 6

Supplementary Information (C99)

$$\text{CEV} = C + \text{Mn}/6 + (\text{Cr} + \text{Mo} + \text{V})/5 + (\text{Ni} + \text{Cu})/15$$

1 = Basic Oxygen Steel, 2 = Electric Arc Furnace, 3 = Ladle Refined, 4 = Calcium Treated, 5 = Vacuum Degassed, 6 = Continuous Cast, 7 = Ingot



Dänsteel

(AQ1).



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen.

7. Erwin



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 7 of 23

Date of creation: (Z02) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 B

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)	Dlr. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52480B1	0206B-1-1	25.0	R	H	T	396	REH	524	A5	26	0.76
52480B1	0206B-1-2	25.0	R	H	T	396	REH	524	A5	26	0.76
52480B1	0206B-2-1	25.0	R	H	T	396	REH	524	A5	26	0.76
52480E3	0207B-1-1	20.0	R	H	T	396	REH	524	A5	26	0.76
52480E3	0207B-1-2	20.0	R	H	T	396	REH	524	A5	26	0.76
52480E3	0207B-2-1	20.0	R	H	T	396	REH	524	A5	26	0.76
52480E3	0207B-2-2	20.0	R	H	T	396	REH	524	A5	26	0.76
52480E2	0209B-1-1	12.0	R	H	T	415	REH	543	A5	29	0.76
52480E2	0209B-1-2	12.0	R	H	T	415	REH	543	A5	29	0.76
52480E2	0209B-2-1	12.0	R	H	T	415	REH	543	A5	29	0.76
52480E2	0209B-2-2	12.0	R	H	T	415	REH	543	A5	29	0.76
52480E1	0255B-1-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480E1	0255B-1-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480E1	0255B-2-1	12.0	R	H	T	415	REH	543	A5	29	0.76
52480E1	0255B-2-2	12.0	R	H	T	415	REH	543	A5	29	0.76
52480D1	0258B-1-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D1	0258B-1-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D1	0258B-2-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480A1	0260B-1-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480A1	0260B-1-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480A1	0260B-2-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480A1	0260B-2-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52475K5	0937B-1-1	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K5	0937B-1-2	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K4	0938B-2-1	10.0	R	H	T	391	REH	531	A5	28	0.74



DanSteel
Normed 33
EN - 3330 Produktions

(A01)



Inspection representative NLMMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 8 of 23
Date of creation: (A02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A06) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

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
52475K4	0938B-2-2	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K3	0939B-2-1	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K3	0939B-2-2	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K2	0944B-2-1	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K2	0944B-2-2	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K1	0945B-2-1	10.0	R	H	T	391	REH	531	A5	28	0.74
52475K1	0945B-2-2	10.0	R	H	T	391	REH	531	A5	28	0.74
52480D3	0968B-1-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D3	0968B-1-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D3	0968B-2-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D3	0968B-2-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D2	0969B-1-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D2	0969B-1-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D2	0969B-2-1	12.0	R	H	T	412	REH	542	A5	29	0.76
52480D2	0969B-2-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52221D2	4497A-1-2	20.0	R	H	T	426	R02	578	A5	23	0.74
52221D5	4503A-1-1	25.0	R	H	T	426	R02	578	A5	23	0.74
52221D5	4503A-1-2	25.0	R	H	T	426	R02	578	A5	23	0.74
52406A4	4975A-1-1	25.0	R	H	T	400	REH	534	A5	25	0.75
52406A4	4975A-2-1	25.0	R	H	T	400	REH	534	A5	25	0.75
52393B5	7731A-1-1	20.0	R	H	T	432	REH	563	A5	27	0.77
52393B5	7731A-1-2	20.0	R	H	T	432	REH	563	A5	27	0.77
52403H3	7859A-2-1	20.0	R	H	T	407	R02	550	A5	26	0.74
52403H3	7859A-2-2	20.0	R	H	T	407	R02	550	A5	26	0.74
52403H4	7860A-1-1	25.0	R	H	T	407	R02	550	A5	26	0.74



DanSteel
Harmadní SO
EN - 3550 Proizvodnost

(A04)



Inspection representative NLKM DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 9 of 23

Date of creation: (202) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 B

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
52403H4	7860A-1-2	25.0	R	H	T	407	R02	550	A5	26	0.74
52398J3	7868A-2-1	20.0	R	H	T	410	R02	546	A5	26	0.75
52411A1	7869A-1-1	25.0	R	H	T	413	REH	551	A5	28	0.75
52411A1	7869A-1-2	25.0	R	H	T	413	REH	551	A5	28	0.75
52403H1	7870A-1-1	25.0	R	H	T	407	R02	550	A5	26	0.74
52403H1	7870A-1-2	25.0	R	H	T	407	R02	550	A5	26	0.74
52403D5	7878A-1-1	20.0	R	H	T	407	R02	550	A5	26	0.74
52403D5	7878A-1-2	20.0	R	H	T	407	R02	550	A5	26	0.74
52403D5	7878A-2-1	20.0	R	H	T	407	R02	550	A5	26	0.74
52403D5	7878A-2-2	20.0	R	H	T	407	R02	550	A5	26	0.74
52403D4	7896A-1-1	25.0	R	H	T	407	REH	550	A5	25	0.74
52403D4	7896A-1-2	25.0	R	H	T	407	REH	550	A5	25	0.74
52411A2	7906A-1-1	25.0	R	H	T	413	REH	551	A5	28	0.75
52411A2	7906A-1-2	25.0	R	H	T	413	REH	551	A5	28	0.75
52403D1	7944A-2-1	20.0	R	H	T	407	REH	550	A5	25	0.74
52411A3	7953A-1-1	20.0	R	H	T	407	R02	549	A5	26	0.74
52411A3	7953A-1-2	20.0	R	H	T	407	R02	549	A5	26	0.74
52411B4	8050A-1-1	20.0	R	H	T	413	REH	551	A5	28	0.75
52411B4	8050A-1-2	20.0	R	H	T	421	REH	537	A5	28	0.78
52411B4	8050A-2-1	20.0	R	H	T	413	REH	551	A5	28	0.75
52411G3	8056A-1-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411G3	8056A-1-2	20.0	R	H	T	421	REH	537	A5	28	0.78
52411G3	8056A-2-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411I3	8057A-1-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411I3	8057A-1-2	20.0	R	H	T	421	REH	537	A5	28	0.78



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 10 of 23
Date of creation: (A02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

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
52411B1	8059A-1-1	22.0	R	H	T	421	REH	537	A5	28	0.78
52411B1	8059A-1-2	22.0	R	H	T	421	REH	537	A5	28	0.78
52411B1	8059A-2-1	22.0	R	H	T	421	REH	537	A5	28	0.78
52411B1	8059A-2-2	22.0	R	H	T	421	REH	537	A5	28	0.78
52411C2	8060A-1-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411C2	8060A-1-2	20.0	R	H	T	432	REH	553	A5	32	0.78
52411C2	8060A-2-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411I5	8066A-1-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411I5	8066A-1-2	20.0	R	H	T	421	REH	537	A5	28	0.78
52411I5	8066A-2-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411G5	8067A-1-1	22.0	R	H	T	421	REH	537	A5	28	0.78
52411G5	8067A-1-2	22.0	R	H	T	421	REH	537	A5	28	0.78
52411G5	8067A-2-1	22.0	R	H	T	421	REH	537	A5	28	0.78
52411B2	8096A-1-1	25.0	R	H	T	412	REH	537	A5	24	0.75
52411B2	8096A-1-2	25.0	R	H	T	412	REH	546	A5	24	0.75
52411I4	8097A-1-1	25.0	R	H	T	412	REH	546	A5	24	0.75
52411I4	8097A-1-2	25.0	R	H	T	412	REH	546	A5	24	0.75
52411G4	8106A-1-1	22.0	R	H	T	412	REH	546	A5	24	0.75
52411G4	8106A-1-2	22.0	R	H	T	412	REH	546	A5	24	0.75
52411G4	8106A-2-1	22.0	R	H	T	412	REH	546	A5	24	0.75
52411C5	8107A-1-1	25.0	R	H	T	412	REH	546	A5	24	0.75
52411C5	8107A-1-2	25.0	R	H	T	412	REH	546	A5	24	0.75
52411A5	8134A-2-1	20.0	R	H	T	412	REH	546	A5	24	0.75
52411G1	8140A-1-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411G1	8140A-1-2	20.0	R	H	T	432	REH	553	A5	32	0.78



DanSteel
Hermstal 33
DN - 3300 Pilsenerstrasse

(A04)



Inspection representative NLKM DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

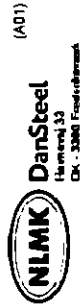
EN 10204:2004/3.1

Page 11 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A06) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

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
52411C1	8141A-1-1	20.0	R	H	T	421	REH	537	A5	28	0.78
52411C1	8141A-1-2	20.0	R	H	T	426	REH	550	A5	30	0.77
52411I2	8143A-2-1	18.0	R	H	T	412	REH	546	A5	24	0.75
52411I1	8150A-1-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411I1	8150A-1-2	20.0	R	H	T	432	REH	553	A5	32	0.78
52411C4	8151A-1-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411C4	8151A-1-2	20.0	R	H	T	432	REH	553	A5	32	0.78
52411H3	8252A-1-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52411H3	8252A-1-2	20.0	R	H	T	432	REH	553	A5	32	0.78
52411H3	8252A-2-1	20.0	R	H	T	432	REH	553	A5	32	0.78
52414G2	8253A-1-1	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G2	8253A-1-2	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G2	8253A-2-1	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G2	8253A-2-2	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G4	8259A-1-1	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G4	8259A-1-2	25.0	R	H	T	418	REH	545	A5	26	0.77
52414G4	8259A-2-1	25.0	R	H	T	418	REH	545	A5	26	0.77
52416G2	8260A-1-1	20.0	R	H	T	386	R02	531	A5	22	0.73
52416G2	8260A-2-1	20.0	R	H	T	386	R02	531	A5	22	0.73
52411H2	8262A-1-1	20.0	R	H	T	426	REH	550	A5	30	0.77
52411H2	8262A-1-2	20.0	R	H	T	426	REH	550	A5	30	0.77
52411H2	8262A-2-1	20.0	R	H	T	426	REH	550	A5	30	0.77
52411H4	8263A-1-1	25.0	R	H	T	432	REH	553	A5	32	0.78
52411H4	8263A-1-2	25.0	R	H	T	432	REH	553	A5	32	0.78
52411H4	8263A-2-1	25.0	R	H	T	432	REH	553	A5	32	0.78



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 12 of 23

Date of creation: (Z02) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 B

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)	Dlr. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52411H4	8263A-2-2	25.0	R	H	T	432	REH	553	A5	32	0.78
52416G3	8269A-1-1	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G3	8269A-1-2	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G3	8269A-2-1	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G3	8269A-2-2	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G1	8270A-1-1	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G1	8270A-1-2	25.0	R	H	T	386	R02	531	A5	22	0.73
52416G1	8270A-2-1	25.0	R	H	T	386	R02	531	A5	22	0.73
52411H1	8307A-1-1	25.0	R	H	T	426	REH	550	A5	30	0.77
52411H1	8307A-1-2	25.0	R	H	T	426	REH	550	A5	30	0.77
52414G3	8341A-2-1	20.0	R	H	T	418	REH	545	A5	26	0.77
52416C4	8345A-1-1	25.0	R	H	T	386	R02	531	A5	22	0.73
52416C4	8345A-1-2	25.0	R	H	T	386	R02	531	A5	22	0.73
52416C3	8353A-2-1	20.0	R	H	T	386	R02	531	A5	22	0.73
52414G1	8354A-1-1	20.0	R	H	T	418	REH	545	A5	26	0.77
52414G1	8354A-1-2	20.0	R	H	T	407	R02	535	A5	30	0.76
52414G1	8354A-2-1	20.0	R	H	T	418	REH	545	A5	26	0.77
52393H5	8483A-1-1	25.0	R	H	T	432	REH	563	A5	27	0.77
52393H5	8483A-1-2	25.0	R	H	T	432	REH	563	A5	27	0.77
52353M5	8495A-2-1	10.0	R	H	T	441	REH	552	A5	33	0.80
52393A5	8555A-1-1	25.0	R	H	T	432	REH	563	A5	27	0.77
52393A5	8555A-1-2	25.0	R	H	T	432	REH	563	A5	27	0.77
52393A3	8556A-1-1	20.0	R	H	T	432	REH	563	A5	27	0.77
52393A3	8556A-1-2	20.0	R	H	T	432	REH	563	A5	27	0.77
52393A2	8583A-1-1	25.0	R	H	T	425	REH	547	A5	26	0.78





Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 13 of 23

Date of creation: (202)

18.01.2018

Certificate No.: (A03)

074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018

B

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

Heat/slab (B07)	Plate ID (B08)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52393A2	8583A-1-2	25.0	R	H	T	425	REH	547	A5	26	0.78
52416E3	8584A-1-1	25.0	R	H	T	414	R02	541	A5	31	0.77
52416E3	8584A-1-2	25.0	R	H	T	414	R02	541	A5	31	0.77
52478A3	8651A-1-1	18.0	R	H	T	383	R02	513	A5	32	0.75
52478A3	8651A-1-2	18.0	R	H	T	383	R02	513	A5	32	0.75
52478A3	8651A-2-1	18.0	R	H	T	383	R02	513	A5	32	0.75
52475B1	8717A-1-1	25.0	R	H	T	395	R02	526	A5	29	0.75
52475B1	8717A-1-2	25.0	R	H	T	395	R02	526	A5	29	0.75
52475E1	8719A-1-1	18.0	R	H	T	395	R02	526	A5	29	0.75
52475E1	8719A-1-2	18.0	R	H	T	395	R02	526	A5	29	0.75
52475E1	8719A-2-1	18.0	R	H	T	395	R02	526	A5	29	0.75
52475E1	8719A-2-2	18.0	R	H	T	395	R02	526	A5	29	0.75
52476B3	8728A-1-1	20.0	R	H	T	388	R02	518	A5	28	0.75
52476B3	8728A-1-2	20.0	R	H	T	388	R02	518	A5	28	0.75
52476B3	8728A-2-1	20.0	R	H	T	388	R02	518	A5	28	0.75
52414H3	8765A-1-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414H3	8765A-1-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52414H3	8765A-2-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414H3	8765A-2-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52475A6	8783A-1-1	25.0	R	H	T	395	R02	526	A5	29	0.75
52475A6	8783A-1-2	25.0	R	H	T	395	R02	526	A5	29	0.75
52475A5	8784A-1-1	25.0	R	H	T	395	R02	526	A5	29	0.75
52475A5	8784A-1-2	25.0	R	H	T	395	R02	526	A5	29	0.75
52398E5	8786A-1-1	25.0	R	H	T	410	REH	546	A5	24	0.75
52398E5	8786A-1-2	25.0	R	H	T	410	REH	546	A5	24	0.75



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page

14 of 23

Date of creation: (202)

18.01.2018

Certificate No.: (A03)

074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018

B

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	Loc. (C10)	Dir. (C01)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52398E4	8789A-1-1	25.0	R	H	T	410	REH	546	A5	24	0.75
52398E4	8789A-1-2	25.0	R	H	T	410	REH	546	A5	24	0.75
52398E2	8796A-1-1	25.0	R	H	T	410	REH	546	A5	24	0.75
52398E2	8796A-1-2	25.0	R	H	T	410	REH	546	A5	24	0.75
52408I2	8859A-1-1	20.0	R	H	T	415	REH	550	A5	25	0.75
52408I2	8859A-1-2	20.0	R	H	T	415	REH	550	A5	25	0.75
52408I2	8859A-2-1	20.0	R	H	T	415	REH	550	A5	25	0.75
52408I2	8859A-2-2	20.0	R	H	T	415	REH	550	A5	25	0.75
52408I1	8860A-1-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408I1	8860A-1-2	20.0	R	H	T	390	R02	540	A5	23	0.72
52408I1	8860A-2-1	20.0	R	H	T	415	REH	550	A5	25	0.75
52408I1	8860A-2-2	20.0	R	H	T	390	R02	540	A5	23	0.72
52480A5	8910A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A5	8910A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52411F5	9221A-1-1	25.0	R	H	T	407	R02	549	A5	26	0.74
52411F5	9221A-1-2	25.0	R	H	T	407	R02	549	A5	26	0.74
52408A1	9232A-1-1	20.0	R	H	T	395	R02	537	A5	22	0.74
52408A1	9232A-1-2	20.0	R	H	T	395	R02	537	A5	22	0.74
52408A1	9232A-2-1	20.0	R	H	T	395	R02	537	A5	22	0.74

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

Hammerhead 33

DK - 3320 Fredslovsvej

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 15 of 23

Date of creation: (202) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 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 J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
52480B1	0206B-1-1	1	CV	10x10	H	L	-20	195	182	146	174
52480B1	0206B-1-2	1	CV	10x10	H	L	-20	195	182	146	174
52480B1	0206B-2-1	1	CV	10x10	H	L	-20	195	182	146	174
52480E3	0207B-1-1	1	CV	10x10	H	L	-20	195	182	146	174
52480E3	0207B-1-2	1	CV	10x10	H	L	-20	195	182	146	174
52480E3	0207B-2-1	1	CV	10x10	H	L	-20	195	182	146	174
52480E3	0207B-2-2	1	CV	10x10	H	L	-20	195	182	146	174
52480E2	0209B-1-1	1	CV	10x10	H	L	-20	177	153	185	172
52480E2	0209B-1-2	1	CV	10x10	H	L	-20	177	153	185	172
52480E2	0209B-2-1	1	CV	10x10	H	L	-20	177	153	185	172
52480E2	0209B-2-2	1	CV	10x10	H	L	-20	177	153	185	172
52480E1	0255B-1-1	1	CV	10x10	H	L	-20	152	128	92	124
52480E1	0255B-1-2	1	CV	10x10	H	L	-20	152	128	92	124
52480E1	0255B-2-1	1	CV	10x10	H	L	-20	177	153	185	172
52480E1	0255B-2-2	1	CV	10x10	H	L	-20	177	153	185	172
52480D1	0258B-1-1	1	CV	10x10	H	L	-20	160	162	173	165
52480D1	0258B-1-2	1	CV	10x10	H	L	-20	160	162	173	165
52480D1	0258B-2-1	1	CV	10x10	H	L	-20	160	162	173	165
52480A1	0260B-1-1	1	CV	10x10	H	L	-20	177	153	185	172
52480A1	0260B-1-2	1	CV	10x10	H	L	-20	177	153	185	172
52480A1	0260B-2-1	1	CV	10x10	H	L	-20	177	153	185	172
52480A1	0260B-2-2	1	CV	10x10	H	L	-20	177	153	185	172
52475K5	0937B-1-1	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K5	0937B-1-2	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K4	0938B-2-1	1	CV	7.5x10	H	L	-20	45	101	100	82



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 16 of 23
Date of creation: (202) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 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 J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
52475K4	0938B-2-2	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K3	0939B-2-1	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K3	0939B-2-2	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K2	0944B-2-1	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K2	0944B-2-2	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K1	0945B-2-1	1	CV	7.5x10	H	L	-20	45	101	100	82
52475K1	0945B-2-2	1	CV	7.5x10	H	L	-20	45	101	100	82
52480D3	0968B-1-1	1	CV	10x10	H	L	-20	177	153	185	172
52480D3	0968B-1-2	1	CV	10x10	H	L	-20	177	153	185	172
52480D3	0968B-2-1	1	CV	10x10	H	L	-20	177	153	185	172
52480D2	0969B-2-2	1	CV	10x10	H	L	-20	177	153	185	172
52480D2	0969B-1-1	1	CV	10x10	H	L	-20	177	153	185	172
52480D2	0969B-1-2	1	CV	10x10	H	L	-20	177	153	185	172
52480D2	0969B-2-1	1	CV	10x10	H	L	-20	177	153	185	172
52480D2	0969B-2-2	1	CV	10x10	H	L	-20	177	153	185	172
52221D2	4497A-1-2	1	CV	10x10	H	L	-20	181	184	186	184
52221D5	4503A-1-1	1	CV	10x10	H	L	-20	181	184	186	184
52221D5	4503A-1-2	1	CV	10x10	H	L	-20	181	184	186	184
52406A4	4975A-1-1	1	CV	10x10	H	L	-20	174	181	158	171
52406A4	4975A-2-1	1	CV	10x10	H	L	-20	174	181	158	171
52393B5	7731A-1-1	1	CV	10x10	H	L	-20	76	62	57	65
52393B5	7731A-1-2	1	CV	10x10	H	L	-20	76	62	57	65
52403H3	7859A-2-1	1	CV	10x10	H	L	-20	77	131	147	118
52403H3	7859A-2-2	1	CV	10x10	H	L	-20	77	131	147	118
52403H4	7860A-1-1	1	CV	10x10	H	L	-20	77	131	147	118



DanSteel

Havnevej 33
DK - 3250 Fredensborg

(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 17 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A06) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 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 (B08)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV J (C42)	SV J (C42)	SV J (C43)	AV J (C43)
52403H4	7860A-1-2	1	CV	10x10	H	L	-20	77	131	147	118
52398J3	7868A-2-1	1	CV	10x10	H	L	-20	122	117	92	110
52411A1	7869A-1-1	1	CV	10x10	H	L	-20	132	146	55	111
52411A1	7869A-1-2	1	CV	10x10	H	L	-20	132	146	55	111
52403H1	7870A-1-1	1	CV	10x10	H	L	-20	77	131	147	118
52403H1	7870A-1-2	1	CV	10x10	H	L	-20	77	131	147	118
52403D5	7878A-1-1	1	CV	10x10	H	L	-20	77	131	147	118
52403D5	7878A-1-2	1	CV	10x10	H	L	-20	77	131	147	118
52403D5	7878A-2-1	1	CV	10x10	H	L	-20	77	131	147	118
52403D5	7878A-2-2	1	CV	10x10	H	L	-20	77	131	147	118
52403D4	7896A-1-1	1	CV	10x10	H	L	-20	77	131	147	118
52403D4	7896A-1-2	1	CV	10x10	H	L	-20	77	131	147	118
52411A2	7906A-1-1	1	CV	10x10	H	L	-20	132	146	55	111
52411A2	7906A-1-2	1	CV	10x10	H	L	-20	132	146	55	111
52403D1	7944A-2-1	1	CV	10x10	H	L	-20	77	131	147	118
52411A3	7953A-1-1	1	CV	10x10	H	L	-20	159	128	127	138
52411A3	7953A-1-2	1	CV	10x10	H	L	-20	159	128	127	138
52411B4	8050A-1-1	1	CV	10x10	H	L	-20	132	146	55	111
52411B4	8050A-1-2	1	CV	10x10	H	L	-20	174	205	201	193
52411B4	8050A-2-1	1	CV	10x10	H	L	-20	132	146	55	111
52411G3	8056A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411G3	8056A-1-2	1	CV	10x10	H	L	-20	174	205	201	193
52411G3	8056A-2-1	1	CV	10x10	H	L	-20	174	205	201	193
52411I3	8057A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411I3	8057A-1-2	1	CV	10x10	H	L	-20	174	205	201	193



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 18 of 23
Date of creation: (A02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

Impact testing Impact tests were performed in accordance with EN 10046/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)
52411B1	8059A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411B1	8059A-1-2	1	CV	10x10	H	L	-20	174	205	201	193
52411B1	8059A-2-1	1	CV	10x10	H	L	-20	174	205	201	193
52411B1	8059A-2-2	1	CV	10x10	H	L	-20	174	205	201	193
52411C2	8060A-1-1	1	CV	10x10	H	L	-20	124	134	152	137
52411C2	8060A-1-2	1	CV	10x10	H	L	-20	124	134	152	137
52411C2	8060A-2-1	1	CV	10x10	H	L	-20	124	134	152	137
52411C2	8060A-2-1	1	CV	10x10	H	L	-20	124	134	152	137
52411I5	8066A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411I5	8066A-1-2	1	CV	10x10	H	L	-20	174	205	201	193
52411I5	8066A-2-1	1	CV	10x10	H	L	-20	174	205	201	193
52411G5	8067A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411G5	8067A-1-2	1	CV	10x10	H	L	-20	174	205	201	193
52411G5	8067A-2-1	1	CV	10x10	H	L	-20	174	205	201	193
52411B2	8096A-1-1	1	CV	10x10	H	L	-20	174	205	201	193
52411B2	8096A-1-2	1	CV	10x10	H	L	-20	139	116	146	134
52411I4	8097A-1-1	1	CV	10x10	H	L	-20	139	116	146	134
52411I4	8097A-1-2	1	CV	10x10	H	L	-20	139	116	146	134
52411G4	8106A-1-1	1	CV	10x10	H	L	-20	139	116	146	134
52411G4	8106A-1-2	1	CV	10x10	H	L	-20	139	116	146	134
52411G4	8106A-2-1	1	CV	10x10	H	L	-20	139	116	146	134
52411C5	8107A-1-1	1	CV	10x10	H	L	-20	139	116	146	134
52411C5	8107A-1-2	1	CV	10x10	H	L	-20	139	116	146	134
52411A5	8134A-2-1	1	CV	10x10	H	L	-20	139	116	146	134
52411G1	8140A-1-1	1	CV	10x10	H	L	-20	124	134	152	137
52411G1	8140A-1-2	1	CV	10x10	H	L	-20	124	134	152	137



DanSteel
Hennau 33
DK - 3360 Friedrichsdorf

(A04)



(A01)

Inspection representative NLKM DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 19 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A06) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 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 (B08)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV J (C42)	SV J (C42)	SV J (C43)
52411C1	8141A-1-1	1	CV	10x10	H	L	-20	174	205	193
52411C1	8141A-1-2	1	CV	10x10	H	L	-20	117	137	127
52411I2	8143A-2-1	1	CV	10x10	H	L	-20	139	116	134
52411I1	8150A-1-1	1	CV	10x10	H	L	-20	124	134	137
52411I1	8150A-1-2	1	CV	10x10	H	L	-20	124	134	137
52411C4	8151A-1-1	1	CV	10x10	H	L	-20	124	134	137
52411C4	8151A-1-2	1	CV	10x10	H	L	-20	124	134	137
52411H3	8252A-1-1	1	CV	10x10	H	L	-20	124	134	137
52411H3	8252A-1-2	1	CV	10x10	H	L	-20	124	134	137
52411H3	8252A-2-1	1	CV	10x10	H	L	-20	124	134	137
52414G2	8253A-1-1	1	CV	10x10	H	L	-20	74	116	101
52414G2	8253A-1-2	1	CV	10x10	H	L	-20	74	116	101
52414G2	8253A-2-1	1	CV	10x10	H	L	-20	74	116	101
52414G2	8253A-2-2	1	CV	10x10	H	L	-20	74	116	101
52414G4	8259A-1-1	1	CV	10x10	H	L	-20	74	116	101
52414G4	8259A-1-2	1	CV	10x10	H	L	-20	74	116	101
52414G4	8259A-2-1	1	CV	10x10	H	L	-20	74	116	101
52416G2	8260A-1-1	1	CV	10x10	H	L	-20	149	158	157
52416G2	8260A-2-1	1	CV	10x10	H	L	-20	149	158	157
52411H2	8262A-1-1	1	CV	10x10	H	L	-20	117	137	127
52411H2	8262A-1-2	1	CV	10x10	H	L	-20	117	137	127
52411H2	8262A-2-1	1	CV	10x10	H	L	-20	117	137	127
52411H4	8263A-1-1	1	CV	10x10	H	L	-20	124	134	137
52411H4	8263A-1-2	1	CV	10x10	H	L	-20	124	134	137
52411H4	8263A-2-1	1	CV	10x10	H	L	-20	124	134	137



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 20 of 23

Date of creation: (Z02) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 B

Impact testing Impact tests were performed in accordance with EN 10046/ISO 148-1 with results as stated below:

Heat/slab (B07)	Plate ID (B08)	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)
52411H4	8263A-2-2	1	CV	10x10	H	L	-20	124	134	152	137
52416G3	8269A-1-1	1	CV	10x10	H	L	-20	149	158	165	157
52416G3	8269A-1-2	1	CV	10x10	H	L	-20	149	158	165	157
52416G3	8269A-2-1	1	CV	10x10	H	L	-20	149	158	165	157
52416G3	8269A-2-2	1	CV	10x10	H	L	-20	149	158	165	157
52416G1	8270A-1-1	1	CV	10x10	H	L	-20	149	158	165	157
52416G1	8270A-1-2	1	CV	10x10	H	L	-20	149	158	165	157
52416G1	8270A-2-1	1	CV	10x10	H	L	-20	149	158	165	157
52411H1	8307A-1-1	1	CV	10x10	H	L	-20	117	137	126	127
52411H1	8307A-1-2	1	CV	10x10	H	L	-20	117	137	126	127
52414G3	8341A-2-1	1	CV	10x10	H	L	-20	74	116	112	101
52416C4	8345A-1-1	1	CV	10x10	H	L	-20	149	158	165	157
52416C4	8345A-1-2	1	CV	10x10	H	L	-20	149	158	165	157
52416C3	8353A-2-1	1	CV	10x10	H	L	-20	149	158	165	157
52414G1	8354A-1-1	1	CV	10x10	H	L	-20	74	116	112	101
52414G1	8354A-1-2	1	CV	10x10	H	L	-20	151	155	187	164
52414G1	8354A-2-1	1	CV	10x10	H	L	-20	74	116	112	101
52393H5	8483A-1-1	1	CV	10x10	H	L	-20	76	62	57	65
52393H5	8483A-1-2	1	CV	10x10	H	L	-20	76	62	57	65
52353M5	8495A-2-1	1	CV	7.5x10	H	L	-20	92	88	73	84
52393A5	8555A-1-1	1	CV	10x10	H	L	-20	76	62	57	65
52393A5	8555A-1-2	1	CV	10x10	H	L	-20	76	62	57	65
52393A3	8556A-1-1	1	CV	10x10	H	L	-20	76	62	57	65
52393A3	8556A-1-2	1	CV	10x10	H	L	-20	76	62	57	65
52393A2	8583A-1-1	1	CV	10x10	H	L	-20	124	138	159	140

(A01)

(A04)



Inspection representative NLMMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 21 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

Our order No.: (A06) 7248241 Your order No.: (A07) 1111416 Order registration date: 07.12.2017 Date of dispatch: 18.01.2018 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 J (C42)	SV J (C42)	SV J (C43)	AV J (C43)
52393A2	8583A-1-2	1	CV	10x10	H	L	-20	124	138	159	140
52416E3	8584A-1-1	1	CV	10x10	H	L	-20	147	151	162	153
52416E3	8584A-1-2	1	CV	10x10	H	L	-20	147	151	162	153
52478A3	8651A-1-1	1	CV	10x10	H	L	-20	181	226	185	197
52478A3	8651A-1-2	1	CV	10x10	H	L	-20	181	226	185	197
52478A3	8651A-2-1	1	CV	10x10	H	L	-20	181	226	185	197
52475B1	8717A-1-1	1	CV	10x10	H	L	-20	183	155	182	173
52475B1	8717A-1-2	1	CV	10x10	H	L	-20	183	155	182	173
52475E1	8719A-1-1	1	CV	10x10	H	L	-20	183	155	182	173
52475E1	8719A-1-2	1	CV	10x10	H	L	-20	183	155	182	173
52475E1	8719A-2-1	1	CV	10x10	H	L	-20	183	155	182	173
52475E1	8719A-2-2	1	CV	10x10	H	L	-20	183	155	182	173
52476B3	8728A-1-1	1	CV	10x10	H	L	-20	189	188	228	202
52476B3	8728A-1-2	1	CV	10x10	H	L	-20	189	188	228	202
52476B3	8728A-2-1	1	CV	10x10	H	L	-20	189	188	228	202
52414H3	8765A-1-1	1	CV	10x10	H	L	-20	74	65	83	74
52414H3	8765A-1-2	1	CV	10x10	H	L	-20	74	65	83	74
52414H3	8765A-2-1	1	CV	10x10	H	L	-20	74	65	83	74
52414H3	8765A-2-2	1	CV	10x10	H	L	-20	74	65	83	74
52475A6	8783A-1-1	1	CV	10x10	H	L	-20	183	155	182	173
52475A6	8783A-1-2	1	CV	10x10	H	L	-20	183	155	182	173
52475A5	8784A-1-1	1	CV	10x10	H	L	-20	183	155	182	173
52475A5	8784A-1-2	1	CV	10x10	H	L	-20	183	155	182	173
52398E5	8786A-1-1	1	CV	10x10	H	L	-20	113	47	123	94
52398E5	8786A-1-2	1	CV	10x10	H	L	-20	113	47	123	94



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 22 of 23

Date of creation: (Z02) 18.01.2018

Certificate No.: (A03) 074469/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 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 (B08)	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)
52398E4	8789A-1-1	1	CV	10x10	H	L	-20	113	47	123	94
52398E4	8789A-1-2	1	CV	10x10	H	L	-20	113	47	123	94
52398E2	8796A-1-1	1	CV	10x10	H	L	-20	113	47	123	94
52398E2	8796A-1-2	1	CV	10x10	H	L	-20	113	47	123	94
52408I2	8859A-1-1	1	CV	10x10	H	L	-20	153	146	129	143
52408I2	8859A-1-2	1	CV	10x10	H	L	-20	153	146	129	143
52408I2	8859A-2-1	1	CV	10x10	H	L	-20	153	146	129	143
52408I2	8859A-2-2	1	CV	10x10	H	L	-20	153	146	129	143
52408I1	8860A-1-1	1	CV	10x10	H	L	-20	144	157	165	155
52408I1	8860A-1-2	1	CV	10x10	H	L	-20	144	157	165	155
52408I1	8860A-2-1	1	CV	10x10	H	L	-20	153	146	129	143
52408I1	8860A-2-2	1	CV	10x10	H	L	-20	144	157	165	155
52480A5	8910A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480A5	8910A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52411F5	9221A-1-1	1	CV	10x10	H	L	-20	159	128	127	138
52411F5	9221A-1-2	1	CV	10x10	H	L	-20	159	128	127	138
52408A1	9232A-1-1	1	CV	10x10	H	L	-20	161	183	190	178
52408A1	9232A-1-2	1	CV	10x10	H	L	-20	161	183	190	178
52408A1	9232A-2-1	1	CV	10x10	H	L	-20	161	183	190	178

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
Hermann 33
DK - 3300 Perleberg

(A01)

(A04)



Inspection representative NLKM DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 23 of 23
Date of creation: (Z02) 18.01.2018
Certificate No.: (A03) 074469/2

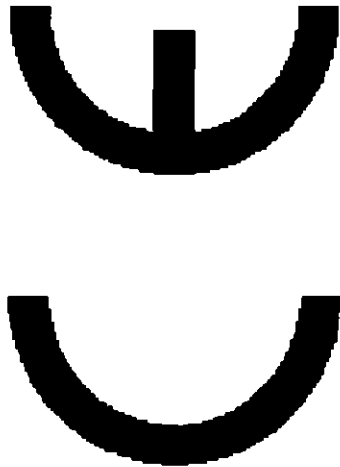
Our order No.: (A06) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 18.01.2018 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).
DOP's could be down-loaded from www.dansteel.dk



TÜV-NORD 0045-CPR-0554

Our products are Cobalt, Gold, Mercury free and are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.
Manufactured in Denmark



(A01)

DanSteel
Havnvej 33
DK - 3300 Frederiksværk

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen

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 C98 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 Z98 Supplementary information | |