



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 1 of 17
Date of creation: (Z02) 17.09.2021
Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581 Your order No.: (A07) P091891 Order registration date: 15.06.2021 Date of dispatch: 17.09.2021 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) Normalized rolled (+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
 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 (B89)
59524F4	4682G	1	16.0	2450	12000	2	7 386	S355K2+N	Head	P091891
59740B2	4793G	1	16.0	2450	12000	2	7 386	S355K2+N	Head	P091891
59810F4	4160G	2	18.0	2000	6000	4	6 784	S355K2+N	Head	P091891
59742E1	4926G	2	18.0	2000	6000	2	3 392	S355K2+N	Head	P091891
59810F2	4126G	3	20.0	2000	6000	1	1 884	S355K2+N	Head	P091891
59810A3	4129G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59810F3	4155G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59810A2	4159G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59792C2	4181G	3	20.0	2000	6000	1	1 884	S355K2+N	Head	P091891
59792E1	4197G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891



(A01)



(A04)

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



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 B

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)
59792C3	4198G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59792C1	4201G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59553G3	4605G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59553G2	4634G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59553G1	4635G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59741G2	4637G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59743E3	4640G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59743E1	4641G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59742H2	4643G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59741G3	4645G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59741G1	4647G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59743E2	4650G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59742H3	4651G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59742H1	4653G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59741E3	4676G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59741E1	4677G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59740G2	4679G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59741E2	4686G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59740G3	4687G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59740A1	4744G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59740A2	4754G	3	20.0	2000	6000	4	7 536	S355K2+N	Head	P091891
59740A3	4783G	3	20.0	2000	6000	2	3 768	S355K2+N	Head	P091891
59792E3	4134G	4	20.0	2450	12000	1	4 616	S355K2+N	Head	P091891
59740E6	4522G	4	20.0	2450	12000	1	4 616	S355K2+N	Head	P091891
59810C1	4118G	6	25.0	2000	6000	1	2 355	S355K2+N	Head	P091891
59810B2	4122G	6	25.0	2000	6000	4	9 420	S355K2+N	Head	P091891
59810B1	4152G	6	25.0	2000	6000	2	4 710	S355K2+N	Head	P091891



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zilbrandt Greisen

Z. Svendsen



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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)	
59519A4	4186G	6	25.0	2000	6000	2	4 710	S355K2+N	Head	P091891	
59519A1	4188G	6	25.0	2000	6000	2	4 710	S355K2+N	Head	P091891	
59810A4	4130G	13	15.0	2000	6000	1	1 413	S355K2+N	Head	P091891	
59742H4	4644G	13	15.0	2000	6000	2	2 826	S355K2+N	Head	P091891	
59743E4	4648G	13	15.0	2000	6000	1	1 413	S355K2+N	Head	P091891	
59741E4	4654G	13	15.0	2000	6000	2	2 826	S355K2+N	Head	P091891	
59740G4	4680G	13	15.0	2000	6000	1	1 413	S355K2+N	Head	P091891	
59524F1	4683G	13	15.0	2000	6000	4	5 652	S355K2+N	Head	P091891	
59524F2	4693G	13	15.0	2000	6000	2	2 826	S355K2+N	Head	P091891	
59740A4	4775G	13	15.0	2000	6000	1	1 413	S355K2+N	Head	P091891	
59742B3	4813G	13	15.0	2000	6000	1	1 413	S355K2+N	Head	P091891	
59742B5	4927G	13	15.0	2000	6000	4	5 652	S355K2+N	Head	P091891	
							130	252 724			



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



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(A02)

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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	0.025	0.025	0.025	0.100	0.060	0.100	0.050	0.0120	0.0008
	max.	0.15	0.15	0.025	0.025	0.025	0.025	0.025	0.025	0.020	0.020	0.020	0.050	0.0120	0.0008
59519	0.15	1.46	0.19	0.012	0.010	0.041	0.039	0.026	0.005	0.037	0.043	0.001	0.001	0.0039	0.0002
59524	0.17	1.46	0.21	0.010	0.007	0.044	0.045	0.034	0.007	0.040	0.040	0.001	0.001	0.0033	0.0002
59553	0.16	1.45	0.20	0.008	0.007	0.017	0.030	0.016	0.004	0.040	0.040	0.001	0.001	0.0037	0.0002
59740	0.16	1.45	0.18	0.025	0.015	0.034	0.046	0.021	0.004	0.033	0.042	0.002	0.001	0.0040	0.0002
59741	0.17	1.46	0.20	0.015	0.012	0.029	0.031	0.018	0.004	0.034	0.043	0.001	0.001	0.0041	0.0002
59742	0.17	1.48	0.20	0.020	0.010	0.035	0.043	0.022	0.004	0.039	0.042	0.002	0.001	0.0037	0.0002
59743	0.17	1.47	0.19	0.012	0.007	0.026	0.033	0.017	0.003	0.042	0.042	0.002	0.001	0.0036	0.0002
59792	0.17	1.46	0.19	0.009	0.004	0.029	0.040	0.023	0.004	0.038	0.019	0.001	0.001	0.0039	0.0002
59810	0.18	1.47	0.18	0.012	0.006	0.023	0.031	0.017	0.003	0.038	0.014	0.002	0.001	0.0052	0.0001

Heat No. (B07) CEV Remark (C70)

Set values:	min.	0.40
	max.	0.45

59519	0.40	1 3 4 6
59524	0.43	1 3 4 6
59553	0.41	1 3 4 6
59740	0.41	1 3 4 6
59741	0.43	1 3 4 6
59742	0.43	1 3 4 6
59743	0.42	1 3 4 6
59792	0.42	1 3 4 6
59810	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 Fredrikssøværk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

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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
59810C1	4118G-1-1	25.0	R	H	T	396	R02	565	A5	22	0.70
59810B2	4122G-1-1	25.0	R	H	T	396	R02	565	A5	22	0.70
59810B2	4122G-1-2	25.0	R	H	T	396	R02	562	A5	24	0.70
59810B2	4122G-2-1	25.0	R	H	T	396	R02	565	A5	22	0.70
59810B2	4122G-2-2	25.0	R	H	T	396	R02	565	A5	22	0.70
59810F2	4126G-2-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810A3	4129G-1-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810A3	4129G-2-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810A4	4130G-1-1	15.0	R	H	T	433	REH	568	A5	30	0.76
59792E3	4134G-1-1	20.0	R	H	T	422	REH	553	A5	26	0.76
59810B1	4152G-1-1	25.0	R	H	T	396	R02	562	A5	24	0.70
59810B1	4152G-1-2	25.0	R	H	T	396	R02	562	A5	24	0.70
59810F3	4155G-1-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810F3	4155G-2-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810A2	4159G-1-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810A2	4159G-2-1	20.0	R	H	T	396	R02	562	A5	24	0.70
59810F4	4160G-1-1	18.0	R	H	T	414	R02	566	A5	25	0.73
59810F4	4160G-1-2	18.0	R	H	T	414	R02	566	A5	25	0.73
59810F4	4160G-2-1	18.0	R	H	T	414	R02	566	A5	25	0.73
59810F4	4160G-2-2	18.0	R	H	T	414	R02	566	A5	25	0.73
59792C2	4181G-1-1	20.0	R	H	T	428	REH	557	A5	26	0.77
59519A4	4186G-1-1	25.0	R	H	T	438	REH	544	A5	27	0.81
59519A4	4186G-1-2	25.0	R	H	T	438	REH	544	A5	27	0.81
59519A1	4188G-1-1	25.0	R	H	T	438	REH	544	A5	27	0.81
59519A1	4188G-1-2	25.0	R	H	T	438	REH	544	A5	27	0.81



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swain



Europe – Plate

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(A02)

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Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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
59792E1	4197G-1-1	20.0	R	H	T	419	REH	554	A5	26	0.76
59792E1	4197G-1-2	20.0	R	H	T	419	REH	554	A5	26	0.76
59792E1	4197G-2-1	20.0	R	H	T	419	REH	554	A5	26	0.76
59792E1	4197G-2-2	20.0	R	H	T	419	REH	554	A5	26	0.76
59792C3	4198G-1-1	20.0	R	H	T	428	REH	557	A5	26	0.77
59792C3	4198G-2-1	20.0	R	H	T	428	REH	557	A5	26	0.77
59792C1	4201G-1-1	20.0	R	H	T	428	REH	557	A5	26	0.77
59792C1	4201G-2-1	20.0	R	H	T	428	REH	557	A5	26	0.77
59740E6	4522G-1-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59553G3	4605G-1-1	20.0	R	H	T	433	R02	562	A5	23	0.77
59553G3	4605G-1-2	20.0	R	H	T	433	R02	562	A5	23	0.77
59553G3	4605G-2-1	20.0	R	H	T	433	R02	562	A5	23	0.77
59553G3	4605G-2-2	20.0	R	H	T	433	R02	562	A5	23	0.77
59553G2	4634G-1-1	20.0	R	H	T	435	REH	549	A5	24	0.79
59553G2	4634G-1-2	20.0	R	H	T	435	REH	549	A5	24	0.79
59553G2	4634G-2-1	20.0	R	H	T	435	REH	549	A5	24	0.79
59553G2	4634G-2-2	20.0	R	H	T	435	REH	549	A5	24	0.79
59553G1	4635G-1-1	20.0	R	H	T	464	REH	563	A5	23	0.82
59553G1	4635G-1-2	20.0	R	H	T	464	REH	563	A5	23	0.82
59553G1	4635G-2-1	20.0	R	H	T	464	REH	563	A5	23	0.82
59553G1	4635G-2-2	20.0	R	H	T	464	REH	563	A5	23	0.82
59741G2	4637G-1-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G2	4637G-1-2	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G2	4637G-2-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G2	4637G-2-2	20.0	R	H	T	425	R02	563	A5	24	0.75



(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	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
59743E3	4640G-1-1	20.0	R	H	T	426	REH	561	A5	22	0.76
59743E3	4640G-1-2	20.0	R	H	T	426	REH	561	A5	22	0.76
59743E3	4640G-2-1	20.0	R	H	T	426	REH	561	A5	22	0.76
59743E3	4640G-2-2	20.0	R	H	T	426	REH	561	A5	22	0.76
59743E1	4641G-1-1	20.0	R	H	T	432	REH	563	A5	24	0.77
59743E1	4641G-1-2	20.0	R	H	T	432	REH	563	A5	24	0.77
59743E1	4641G-2-1	20.0	R	H	T	432	REH	563	A5	24	0.77
59743E1	4641G-2-2	20.0	R	H	T	432	REH	563	A5	24	0.77
59742H2	4643G-1-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H2	4643G-1-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H2	4643G-2-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H2	4643G-2-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H4	4644G-1-1	15.0	R	H	T	460	REH	574	A5	23	0.80
59742H4	4644G-2-1	15.0	R	H	T	460	REH	574	A5	23	0.80
59741G3	4645G-1-1	20.0	R	H	T	431	R02	562	A5	24	0.77
59741G3	4645G-1-2	20.0	R	H	T	431	R02	562	A5	24	0.77
59741G3	4645G-2-1	20.0	R	H	T	431	R02	562	A5	24	0.77
59741G3	4645G-2-2	20.0	R	H	T	431	R02	562	A5	24	0.77
59741G1	4647G-1-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G1	4647G-1-2	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G1	4647G-2-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741G1	4647G-2-2	20.0	R	H	T	425	R02	563	A5	24	0.75
59743E4	4648G-1-1	15.0	R	H	T	447	REH	570	A5	27	0.78
59743E2	4650G-1-1	20.0	R	H	T	423	REH	555	A5	23	0.76
59743E2	4650G-1-2	20.0	R	H	T	423	REH	555	A5	23	0.76



(A01)

(A04)



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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
59743E2	4650G-2-1	20.0	R	H	T	423	REH	555	A5	23	0.76
59743E2	4650G-2-2	20.0	R	H	T	423	REH	555	A5	23	0.76
59742H3	4651G-1-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H3	4651G-1-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H3	4651G-2-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H3	4651G-2-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H1	4653G-1-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H1	4653G-1-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H1	4653G-2-1	20.0	R	H	T	441	REH	568	A5	26	0.78
59742H1	4653G-2-2	20.0	R	H	T	441	REH	568	A5	26	0.78
59741E4	4654G-1-1	15.0	R	H	T	439	REH	553	A5	28	0.79
59741E4	4654G-2-1	15.0	R	H	T	439	REH	553	A5	28	0.79
59741E3	4676G-1-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E3	4676G-1-2	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E3	4676G-2-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E3	4676G-2-2	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E1	4677G-1-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E1	4677G-2-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59740G2	4679G-1-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740G2	4679G-2-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740G4	4680G-2-1	15.0	R	H	T	445	REH	567	A5	26	0.78
59524F4	4682G-1-1	16.0	R	H	T	468	REH	579	A5	29	0.81
59524F4	4682G-2-1	16.0	R	H	T	468	REH	579	A5	29	0.81
59524F1	4683G-1-1	15.0	R	H	T	468	REH	579	A5	29	0.81
59524F1	4683G-1-2	15.0	R	H	T	468	REH	579	A5	29	0.81



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swish



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02)

17.09.2021

Certificate No.: (A03)

131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021

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
59524F1	4683G-2-1	15.0	R	H	T	468	REH	579	A5	29	0.81
59524F1	4683G-2-2	15.0	R	H	T	468	REH	579	A5	29	0.81
59741E2	4686G-1-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59741E2	4686G-2-1	20.0	R	H	T	425	R02	563	A5	24	0.75
59740G3	4687G-1-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740G3	4687G-1-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740G3	4687G-2-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740G3	4687G-2-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59524F2	4693G-2-1	15.0	R	H	T	468	REH	579	A5	29	0.81
59524F2	4693G-2-2	15.0	R	H	T	468	REH	579	A5	29	0.81
59740A1	4744G-1-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A1	4744G-1-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A1	4744G-2-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A1	4744G-2-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A2	4754G-1-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A2	4754G-1-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A2	4754G-2-1	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A2	4754G-2-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A4	4775G-1-1	15.0	R	H	T	445	REH	567	A5	26	0.78
59740A3	4783G-1-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740A3	4783G-2-2	20.0	R	H	T	442	REH	570	A5	26	0.78
59740B2	4793G-1-1	16.0	R	H	T	445	REH	567	A5	26	0.78
59740B2	4793G-2-1	16.0	R	H	T	445	REH	567	A5	26	0.78
59742B3	4813G-2-1	15.0	R	H	T	460	REH	574	A5	23	0.80
59742E1	4926G-2-1	18.0	R	H	T	441	REH	568	A5	26	0.78



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

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Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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
59742E1	4926G-2-2	18.0	R	H	T	441	REH	568	A5	26	0.78
59742B5	4927G-1-1	15.0	R	H	T	460	REH	574	A5	23	0.80
59742B5	4927G-1-2	15.0	R	H	T	460	REH	574	A5	23	0.80
59742B5	4927G-2-1	15.0	R	H	T	460	REH	574	A5	23	0.80
59742B5	4927G-2-2	15.0	R	H	T	460	REH	574	A5	23	0.80

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

Havnvej 33

DK - 3300 Fredrikssøværk

(A04)



(A01)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 11 of 17

Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

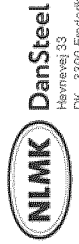
Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
59810C1	4118G-1-1	1	CV	10x10	H	L	-20	147	142	142	138	142	142
59810B2	4122G-1-1	1	CV	10x10	H	L	-20	147	142	142	138	142	142
59810B2	4122G-1-2	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810B2	4122G-2-1	1	CV	10x10	H	L	-20	147	142	142	138	142	142
59810B2	4122G-2-2	1	CV	10x10	H	L	-20	147	142	142	138	142	142
59810F2	4126G-2-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810A3	4129G-1-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810A3	4129G-2-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810A4	4130G-1-1	1	CV	10x10	H	L	-20	162	129	129	146	146	146
59792E3	4134G-1-1	1	CV	10x10	H	L	-20	200	163	189	189	184	184
59810B1	4152G-1-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810B1	4152G-1-2	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810F3	4155G-1-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810F3	4155G-2-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810A2	4159G-1-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810A2	4159G-2-1	1	CV	10x10	H	L	-20	107	140	140	140	129	129
59810F4	4160G-1-1	1	CV	10x10	H	L	-20	143	149	142	142	145	145
59810F4	4160G-1-2	1	CV	10x10	H	L	-20	143	149	142	142	145	145
59810F4	4160G-2-1	1	CV	10x10	H	L	-20	143	149	142	142	145	145
59810F4	4160G-2-2	1	CV	10x10	H	L	-20	143	149	142	142	145	145
59792C2	4181G-1-1	1	CV	10x10	H	L	-20	185	191	196	191	191	191
59519A4	4186G-1-1	1	CV	10x10	H	L	-20	106	157	160	160	141	141
59519A4	4186G-1-2	1	CV	10x10	H	L	-20	106	157	160	160	141	141
59519A1	4188G-1-1	1	CV	10x10	H	L	-20	106	157	160	160	141	141
59519A1	4188G-1-2	1	CV	10x10	H	L	-20	106	157	160	160	141	141



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen

Havnavej 33
DK - 3300 Fredrikssøværk



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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)		SV (C42)		AV (C43)	
								J	J	J	J		
59792E1	4197G-1-1	1	CV	10x10	H	L	-20	179	197	160	179	160	179
59792E1	4197G-1-2	1	CV	10x10	H	L	-20	179	197	160	179	160	179
59792E1	4197G-2-1	1	CV	10x10	H	L	-20	179	197	160	179	160	179
59792E1	4197G-2-2	1	CV	10x10	H	L	-20	179	197	160	179	160	179
59792C3	4198G-1-1	1	CV	10x10	H	L	-20	185	191	196	191	196	191
59792C3	4198G-2-1	1	CV	10x10	H	L	-20	185	191	196	191	196	191
59792C1	4201G-1-1	1	CV	10x10	H	L	-20	185	191	196	191	196	191
59792C1	4201G-2-1	1	CV	10x10	H	L	-20	185	191	196	191	196	191
59740E6	4522G-1-1	1	CV	10x10	H	L	-20	72	73	78	74	78	74
59553G3	4605G-1-1	1	CV	10x10	H	L	-20	183	160	184	176	184	176
59553G3	4605G-1-2	1	CV	10x10	H	L	-20	183	160	184	176	184	176
59553G3	4605G-2-1	1	CV	10x10	H	L	-20	183	160	184	176	184	176
59553G3	4605G-2-2	1	CV	10x10	H	L	-20	183	160	184	176	184	176
59553G2	4634G-1-1	1	CV	10x10	H	L	-20	169	132	167	156	167	156
59553G2	4634G-1-2	1	CV	10x10	H	L	-20	169	132	167	156	167	156
59553G2	4634G-2-1	1	CV	10x10	H	L	-20	169	132	167	156	167	156
59553G2	4634G-2-2	1	CV	10x10	H	L	-20	169	132	167	156	167	156
59553G1	4635G-1-1	1	CV	10x10	H	L	-20	179	162	175	172	175	172
59553G1	4635G-1-2	1	CV	10x10	H	L	-20	179	162	175	172	175	172
59553G1	4635G-2-1	1	CV	10x10	H	L	-20	179	162	175	172	175	172
59553G1	4635G-2-2	1	CV	10x10	H	L	-20	179	162	175	172	175	172
59741G2	4637G-1-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741G2	4637G-1-2	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741G2	4637G-2-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741G2	4637G-2-2	1	CV	10x10	H	L	-20	128	132	123	128	123	128



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swain



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02)

17.09.2021

Certificate No.: (A03)

131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021

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)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
59743E3	4640G-1-1	1	CV	10x10	H	L	-20	169	158	133	153		
59743E3	4640G-1-2	1	CV	10x10	H	L	-20	169	158	133	153		
59743E3	4640G-2-1	1	CV	10x10	H	L	-20	169	158	133	153		
59743E3	4640G-2-2	1	CV	10x10	H	L	-20	169	158	133	153		
59743E1	4641G-1-1	1	CV	10x10	H	L	-20	119	121	117	119		
59743E1	4641G-1-2	1	CV	10x10	H	L	-20	119	121	117	119		
59743E1	4641G-2-1	1	CV	10x10	H	L	-20	119	121	117	119		
59743E1	4641G-2-2	1	CV	10x10	H	L	-20	119	121	117	119		
59742H2	4643G-1-1	1	CV	10x10	H	L	-20	121	136	134	130		
59742H2	4643G-1-2	1	CV	10x10	H	L	-20	121	136	134	130		
59742H2	4643G-2-1	1	CV	10x10	H	L	-20	121	136	134	130		
59742H2	4643G-2-2	1	CV	10x10	H	L	-20	121	136	134	130		
59742H4	4644G-1-1	1	CV	10x10	H	L	-20	135	136	145	139		
59742H4	4644G-2-1	1	CV	10x10	H	L	-20	135	136	145	139		
59741G3	4645G-1-1	1	CV	10x10	H	L	-20	118	125	125	123		
59741G3	4645G-1-2	1	CV	10x10	H	L	-20	118	125	125	123		
59741G3	4645G-2-1	1	CV	10x10	H	L	-20	118	125	125	123		
59741G3	4645G-2-2	1	CV	10x10	H	L	-20	118	125	125	123		
59741G1	4647G-1-1	1	CV	10x10	H	L	-20	128	132	123	128		
59741G1	4647G-1-2	1	CV	10x10	H	L	-20	128	132	123	128		
59741G1	4647G-2-1	1	CV	10x10	H	L	-20	128	132	123	128		
59741G1	4647G-2-2	1	CV	10x10	H	L	-20	128	132	123	128		
59743E4	4648G-1-1	1	CV	10x10	H	L	-20	155	158	168	160		
59743E2	4650G-1-1	1	CV	10x10	H	L	-20	187	174	170	177		
59743E2	4650G-1-2	1	CV	10x10	H	L	-20	187	174	170	177		



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen

Havnavej 33
DK - 3300 Fredrikssøværk



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 14 of 17

Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
59743E2	4650G-2-1	1	CV	10x10	H	L	-20	187	174	170	177	170	177
59743E2	4650G-2-2	1	CV	10x10	H	L	-20	187	174	170	177	170	177
59742H3	4651G-1-1	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H3	4651G-1-2	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H3	4651G-2-1	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H3	4651G-2-2	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H1	4653G-1-1	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H1	4653G-1-2	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H1	4653G-2-1	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59742H1	4653G-2-2	1	CV	10x10	H	L	-20	121	136	134	130	134	130
59741E4	4654G-1-1	1	CV	10x10	H	L	-20	92	96	89	92	89	92
59741E4	4654G-2-1	1	CV	10x10	H	L	-20	92	96	89	92	89	92
59741E3	4676G-1-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741E3	4676G-1-2	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741E3	4676G-2-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741E3	4676G-2-2	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741E1	4677G-1-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59741E1	4677G-2-1	1	CV	10x10	H	L	-20	128	132	123	128	123	128
59740G2	4679G-1-1	1	CV	10x10	H	L	-20	72	73	78	74	78	74
59740G2	4679G-2-1	1	CV	10x10	H	L	-20	72	73	78	74	78	74
59740G4	4680G-2-1	1	CV	10x10	H	L	-20	132	168	169	156	169	156
59524F4	4682G-1-1	1	CV	10x10	H	L	-20	173	144	163	160	163	160
59524F4	4682G-2-1	1	CV	10x10	H	L	-20	173	144	163	160	163	160
59524F1	4683G-1-1	1	CV	10x10	H	L	-20	173	144	163	160	163	160
59524F1	4683G-1-2	1	CV	10x10	H	L	-20	173	144	163	160	163	160



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen

Havnavej 33
DK - 3300 Fredrikssøværk



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02) 17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021

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
59524F1	4683G-2-1	1	CV	10x10	H	L	-20	173	144	163	160		
59524F1	4683G-2-2	1	CV	10x10	H	L	-20	173	144	163	160		
59741E2	4686G-1-1	1	CV	10x10	H	L	-20	128	132	123	128		
59741E2	4686G-2-1	1	CV	10x10	H	L	-20	128	132	123	128		
59740G3	4687G-1-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740G3	4687G-1-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740G3	4687G-2-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740G3	4687G-2-2	1	CV	10x10	H	L	-20	72	73	78	74		
59524F2	4693G-2-1	1	CV	10x10	H	L	-20	173	144	163	160		
59524F2	4693G-2-2	1	CV	10x10	H	L	-20	173	144	163	160		
59740A1	4744G-1-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740A1	4744G-1-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740A1	4744G-2-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740A1	4744G-2-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740A2	4754G-1-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740A2	4754G-1-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740A2	4754G-2-1	1	CV	10x10	H	L	-20	72	73	78	74		
59740A2	4754G-2-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740A4	4775G-1-1	1	CV	10x10	H	L	-20	132	168	169	156		
59740A3	4783G-1-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740A3	4783G-2-2	1	CV	10x10	H	L	-20	72	73	78	74		
59740B2	4793G-1-1	1	CV	10x10	H	L	-20	132	168	169	156		
59740B2	4793G-2-1	1	CV	10x10	H	L	-20	132	168	169	156		
59742B3	4813G-2-1	1	CV	10x10	H	L	-20	135	136	145	139		
59742E1	4926G-2-1	1	CV	10x10	H	L	-20	121	136	134	130		



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

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Date of creation: (Z02)

17.09.2021

Certificate No.: (A03) 131311/3

Our order No.: (A08) 1362581

Your order No.: (A07) P091891

Order registration date: 15.06.2021

Date of dispatch: 17.09.2021 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)	AV J (C43)
59742E1	4926G-2-2	1	CV	10x10	H	L	-20	136	134	130
59742B5	4927G-1-1	1	CV	10x10	H	L	-20	136	145	139
59742B5	4927G-1-2	1	CV	10x10	H	L	-20	136	145	139
59742B5	4927G-2-1	1	CV	10x10	H	L	-20	136	145	139
59742B5	4927G-2-2	1	CV	10x10	H	L	-20	136	145	139

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 Fredrikssøværk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

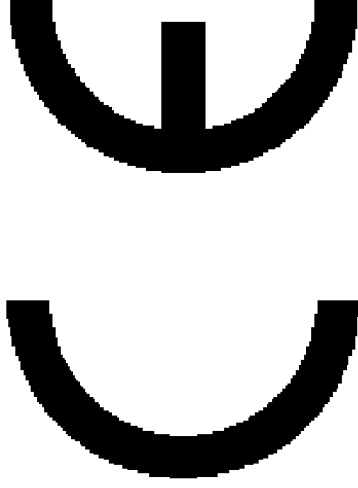
Inspection Certificate ^(A02)

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Date of creation: ^(Z02) 17.09.2021
Certificate No.: ^(A03) 131311/3

Our order No.: ^(A08) 1362581 **Your order No.:** ^(A07) P091891 **Order registration date:** 15.06.2021 **Date of dispatch:** 17.09.2021 **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
Havnvejs 33
DK - 3300 Fredrikssøværk

^(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	