

Our order No.: (A08) 2103561 Your order No.: (A07) 45539 Order registration date: 22.12.2022 Date of dispatch: 28.03.2023 B

Material requirements and customer information

Product: <small>(A03)</small> Plate	Steel standard and grade: <small>(B02)</small> EN10025-2:2019 S355K2+N	Surface tolerance: EN 10163-2 B3
Delivery condition: <small>(B04)</small> Furnace normalized (N)		Length tolerance: EN 10029 Table 3
Customer name and address <small>(A06)</small>	Certificate address	Width tolerance: EN 10029 Table 2
4002	4002001	Thickness tolerance: EN 10029 Class B
FEON OY	FEON OY	Flatness tolerance: EN 10029 Table 4 Class N
Teollisuuskatu 33	Finland	
00510 Helsinki		
Finland	certificates@feon.fi;janne.myllynen@feon.fi;a.faktarauskas@eu.nlmk.com	

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 <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
63218G2	1013F	1	12.0	2000	6000	4	4 520	S355K2+N	Head	45539
63413G4	5534E	1	12.0	2000	6000	1	1 130	S355K2+N	Head	45539
63397H4	4142E	3	18.0	2000	6000	2	3 392	S355K2+N	Head	45539
63397D2	4190E	3	18.0	2000	6000	4	6 784	S355K2+N	Head	45539
63361E2	5918E	3	18.0	2000	6000	4	6 784	S355K2+N	Head	45539
63413G3	5536E	4	20.0	2000	6000	4	7 536	S355K2+N	Head	45539
63412I4	5396E	6	25.0	2000	6000	2	4 710	S355K2+N	Head	45539
63413F4	5592E	6	25.0	2000	6000	4	9 420	S355K2+N	Head	45539
63416D2	6419E	6	25.0	2000	6000	2	4 710	S355K2+N	Head	45539

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Heat/Slab <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
63412F4	5404E	7	30.0	2000	6000	2	5 652	S355K2+N	Head	45539
63225A3	4777E	9	40.0	2000	6000	2	7 536	S355K2+N	Head	45539
63416C4	4137E	23	20.0	2500	6000	2	4 710	S355K2+N	Head	45539
63413H1	5532E	23	20.0	2500	6000	4	9 420	S355K2+N	Head	45539
63416D1	6420E	23	20.0	2500	6000	2	4 710	S355K2+N	Head	45539
63388A3	3814E	24	25.0	2500	6000	2	5 888	S355K2+N	Head	45539
63388A4	3815E	24	25.0	2500	6000	2	5 888	S355K2+N	Head	45539
63416E5	5132E	24	25.0	2500	6000	2	5 888	S355K2+N	Head	45539
63413F2	5596E	24	25.0	2500	6000	3	8 832	S355K2+N	Head	45539
62808K2	0214F	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
62808K1	0224F	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63225E1	4814E	26	10.0	2500	8000	3	4 710	S355K2+N	Head	45539
63225A4	4816E	26	10.0	2500	8000	3	4 710	S355K2+N	Head	45539
63413E6	5092E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
63413E1	5130E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
62808O4	5372E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
62808O3	5373E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
62808O2	5382E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
62808O1	5383E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
62825N3	5483E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
62852N2	5574E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
62852N1	5584E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63413F1	5598E	26	10.0	2500	8000	3	4 710	S355K2+N	Head	45539
63091E3	5605E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63091E2	5606E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63091E1	5607E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63216L3	5609E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539

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Heat/Slab <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
63216L2	5618E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63216L1	5619E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63410E4	6409E	26	10.0	2500	8000	2	3 140	S355K2+N	Head	45539
63416D5	6415E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
62808L4	6451E	26	10.0	2500	8000	1	1 570	S355K2+N	Head	45539
63388D3	3157E	27	16.0	2450	12000	2	7 386	S355K2+N	Head	45539
63397A3	4372E	27	16.0	2450	12000	1	3 693	S355K2+N	Head	45539
63410E5	6407E	27	16.0	2450	12000	2	7 386	S355K2+N	Head	45539
63225A1	4820E	28	30.0	2450	12000	1	6 924	S355K2+N	Head	45539
						90	189 419			

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Chemical composition (heat analysis) all results in %

Heat No. <small>(B07)</small>	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.		0.15							0.020					
	max.	0.20	1.60	0.25	0.025	0.025	0.290	0.400	0.400	0.080	0.100	0.060	0.100	0.050	0.0120 0.0008
62808	0.15	1.45	0.20	0.011	0.002	0.013	0.017	0.009	0.001	0.039	0.042	0.001	0.002	0.0042	0.0002
62825	0.15	1.45	0.21	0.009	0.002	0.017	0.020	0.013	0.002	0.039	0.044	0.001	0.002	0.0038	0.0002
62852	0.15	1.48	0.20	0.017	0.003	0.018	0.032	0.015	0.002	0.034	0.043	0.002	0.002	0.0045	0.0002
63091	0.15	1.39	0.20	0.011	0.001	0.025	0.020	0.017	0.002	0.042	0.017	0.002	0.002	0.0042	0.0002
63216	0.16	1.41	0.18	0.018	0.003	0.023	0.026	0.009	0.001	0.042	0.017	0.003	0.003	0.0032	0.0001
63218	0.17	1.48	0.21	0.009	0.003	0.030	0.037	0.021	0.002	0.039	0.044	0.002	0.002	0.0038	0.0001
63225	0.17	1.45	0.20	0.009	0.006	0.020	0.029	0.016	0.001	0.040	0.041	0.002	0.002	0.0057	0.0002
63361	0.17	1.48	0.18	0.014	0.008	0.034	0.035	0.020	0.002	0.042	0.017	0.001	0.001	0.0047	0.0002
63388	0.15	1.48	0.19	0.016	0.002	0.017	0.017	0.009	0.001	0.035	0.043	0.002	0.002	0.0046	0.0002
63397	0.15	1.45	0.19	0.014	0.002	0.019	0.010	0.010	0.001	0.038	0.046	0.001	0.002	0.0042	0.0001
63410	0.17	1.47	0.21	0.014	0.005	0.033	0.026	0.015	0.002	0.045	0.042	0.002	0.002	0.0036	0.0003
63412	0.17	1.51	0.24	0.007	0.005	0.028	0.032	0.016	0.002	0.043	0.042	0.002	0.002	0.0042	0.0002
63413	0.17	1.54	0.19	0.010	0.003	0.021	0.013	0.007	0.001	0.044	0.044	0.002	0.002	0.0046	0.0002
63416	0.17	1.49	0.20	0.008	0.006	0.029	0.041	0.019	0.002	0.037	0.043	0.001	0.002	0.0042	0.0003

Heat No. <small>(B07)</small>	CEV	Remark <small>(C70)</small>
Set values:	min.	
	max.	0.45
62808	0.39	1 3 4 6
62825	0.39	1 3 4 6
62852	0.40	1 3 4 6
63091	0.39	1 3 4 6
63216	0.40	1 3 4 6
63218	0.43	1 3 4 6
63225	0.42	1 3 4 6
63361	0.43	1 3 4 6
63388	0.40	1 3 4 6

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Chemical composition (heat analysis) all results in %

Heat No. <small>(B07)</small>	CEV	Remark <small>(C70)</small>
Set values:	min.	
	max. 0.45	
63397	0.40	1 3 4 6
63410	0.42	1 3 4 6
63412	0.43	1 3 4 6
63413	0.44	1 3 4 6
63416	0.43	1 3 4 6
Supplementary information <small>(C99)</small>		
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		

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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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	Yield/UTS
62808K2	0214F-2-1	10.0	R	H	T	429	REH	542	A5	32	0.79
62808K1	0224F-2-1	10.0	R	H	T	429	REH	542	A5	32	0.79
63218G2	1013F-1-1	12.0	R	H	T	408	REH	532	A5	33	0.77
63218G2	1013F-1-2	12.0	R	H	T	408	REH	532	A5	33	0.77
63218G2	1013F-2-1	12.0	R	H	T	408	REH	532	A5	33	0.77
63218G2	1013F-2-2	12.0	R	H	T	408	REH	532	A5	33	0.77
63388D3	3157E-1-1	16.0	R	H	T	368	REH	497	A5	34	0.74
63388D3	3157E-2-1	16.0	R	H	T	368	REH	497	A5	34	0.74
63388A3	3814E-1-1	25.0	R	H	T	363	REH	507	A5	34	0.72
63388A3	3814E-1-2	25.0	R	H	T	363	REH	507	A5	34	0.72
63388A4	3815E-1-1	25.0	R	H	T	363	REH	507	A5	34	0.72
63388A4	3815E-1-2	25.0	R	H	T	363	REH	507	A5	34	0.72
63416C4	4137E-1-1	20.0	R	H	T	358	R02	520	A5	30	0.69
63416C4	4137E-1-2	20.0	R	H	T	358	R02	520	A5	30	0.69
63397H4	4142E-2-1	18.0	R	H	T	356	REH	509	A5	31	0.70
63397H4	4142E-2-2	18.0	R	H	T	356	REH	509	A5	31	0.70
63397D2	4190E-1-1	18.0	R	H	T	356	REH	509	A5	31	0.70
63397D2	4190E-1-2	18.0	R	H	T	356	REH	509	A5	31	0.70
63397D2	4190E-2-1	18.0	R	H	T	356	REH	509	A5	31	0.70
63397D2	4190E-2-2	18.0	R	H	T	356	REH	509	A5	31	0.70
63397A3	4372E-2-1	16.0	R	H	T	410	REH	526	A5	34	0.78
63225A3	4777E-1-1	40.0	R	H	T	354	REH	513	A5	30	0.69
63225A3	4777E-1-2	40.0	R	H	T	354	REH	513	A5	30	0.69
63225E1	4814E-1-1	10.0	R	H	T	412	REH	532	A5	32	0.77
63225E1	4814E-1-2	10.0	R	H	T	412	REH	532	A5	32	0.77

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	Yield/UTS
63225E1	4814E-2-1	10.0	R	H	T	412	REH	532	A5	32	0.77
63225A4	4816E-1-1	10.0	R	H	T	412	REH	532	A5	32	0.77
63225A4	4816E-1-2	10.0	R	H	T	412	REH	532	A5	32	0.77
63225A4	4816E-2-1	10.0	R	H	T	412	REH	532	A5	32	0.77
63225A1	4820E-1-1	30.0	R	H	T	358	R02	509	A5	30	0.70
63413E6	5092E-1-1	10.0	R	H	T	421	REH	553	A5	33	0.76
63413E6	5092E-1-2	10.0	R	H	T	421	REH	553	A5	33	0.76
63413E1	5130E-1-2	10.0	R	H	T	421	REH	553	A5	33	0.76
63413E1	5130E-2-1	10.0	R	H	T	421	REH	553	A5	33	0.76
63416E5	5132E-1-1	25.0	R	H	T	358	R02	520	A5	30	0.69
63416E5	5132E-1-2	25.0	R	H	T	358	R02	520	A5	30	0.69
62808O4	5372E-1-1	10.0	R	H	T	409	REH	521	A5	38	0.79
62808O3	5373E-1-1	10.0	R	H	T	429	REH	542	A5	32	0.79
62808O3	5373E-1-2	10.0	R	H	T	429	REH	542	A5	32	0.79
62808O2	5382E-1-1	10.0	R	H	T	429	REH	542	A5	32	0.79
62808O2	5382E-1-2	10.0	R	H	T	429	REH	542	A5	32	0.79
62808O1	5383E-1-1	10.0	R	H	T	429	REH	542	A5	32	0.79
62808O1	5383E-1-2	10.0	R	H	T	429	REH	542	A5	32	0.79
63412I4	5396E-1-1	25.0	R	H	T	364	REH	524	A5	29	0.69
63412I4	5396E-1-2	25.0	R	H	T	364	REH	524	A5	29	0.69
63412F4	5404E-1-1	30.0	R	H	T	364	REH	524	A5	29	0.69
63412F4	5404E-1-2	30.0	R	H	T	364	REH	524	A5	29	0.69
62825N3	5483E-1-1	10.0	R	H	T	429	REH	534	A5	32	0.80
62825N3	5483E-1-2	10.0	R	H	T	429	REH	534	A5	32	0.80
63413H1	5532E-1-1	20.0	R	H	T	391	REH	532	A5	31	0.73

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	Yield/UTS
63413H1	5532E-1-2	20.0	R	H	T	391	REH	532	A5	31	0.73
63413H1	5532E-2-1	20.0	R	H	T	366	R02	521	A5	24	0.70
63413H1	5532E-2-2	20.0	R	H	T	391	REH	532	A5	31	0.73
63413G4	5534E-2-2	12.0	R	H	T	421	REH	553	A5	33	0.76
63413G3	5536E-1-1	20.0	R	H	T	391	REH	532	A5	31	0.73
63413G3	5536E-1-2	20.0	R	H	T	391	REH	532	A5	31	0.73
63413G3	5536E-2-1	20.0	R	H	T	391	REH	532	A5	31	0.73
63413G3	5536E-2-2	20.0	R	H	T	391	REH	532	A5	31	0.73
62852N2	5574E-2-1	10.0	R	H	T	431	REH	541	A5	32	0.80
62852N1	5584E-2-1	10.0	R	H	T	431	REH	541	A5	32	0.80
63413F4	5592E-1-1	25.0	R	H	T	390	REH	532	A5	33	0.73
63413F4	5592E-1-2	25.0	R	H	T	390	REH	532	A5	33	0.73
63413F4	5592E-2-1	25.0	R	H	T	366	R02	521	A5	24	0.70
63413F4	5592E-2-2	25.0	R	H	T	366	R02	521	A5	24	0.70
63413F2	5596E-1-1	25.0	R	H	T	366	R02	521	A5	24	0.70
63413F2	5596E-1-2	25.0	R	H	T	366	R02	521	A5	24	0.70
63413F2	5596E-1-3	25.0	R	H	T	366	R02	521	A5	24	0.70
63413F1	5598E-1-1	10.0	R	H	T	410	REH	543	A5	31	0.76
63413F1	5598E-1-2	10.0	R	H	T	410	REH	543	A5	31	0.76
63413F1	5598E-2-1	10.0	R	H	T	410	REH	543	A5	31	0.76
63091E3	5605E-2-1	10.0	R	H	T	381	REH	509	A5	40	0.75
63091E2	5606E-2-1	10.0	R	H	T	381	REH	509	A5	40	0.75
63091E1	5607E-2-1	10.0	R	H	T	381	REH	509	A5	40	0.75
63216L3	5609E-2-1	10.0	R	H	T	379	REH	517	A5	35	0.73
63216L2	5618E-2-1	10.0	R	H	T	379	REH	517	A5	35	0.73

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	Yield/UTS
63216L1	5619E-2-1	10.0	R	H	T	379	REH	514	A5	36	0.74
63361E2	5918E-1-1	18.0	R	H	T	372	REH	530	A5	31	0.70
63361E2	5918E-1-2	18.0	R	H	T	372	REH	530	A5	31	0.70
63361E2	5918E-2-1	18.0	R	H	T	372	REH	530	A5	31	0.70
63361E2	5918E-2-2	18.0	R	H	T	372	REH	530	A5	31	0.70
63410E5	6407E-1-1	16.0	R	H	T	410	REH	548	A5	30	0.75
63410E5	6407E-2-1	16.0	R	H	T	410	REH	548	A5	30	0.75
63410E4	6409E-1-2	10.0	R	H	T	410	REH	548	A5	30	0.75
63410E4	6409E-2-1	10.0	R	H	T	410	REH	548	A5	30	0.75
63416D5	6415E-2-1	10.0	R	H	T	415	REH	540	A5	34	0.77
63416D2	6419E-1-1	25.0	R	H	T	358	R02	520	A5	30	0.69
63416D2	6419E-1-2	25.0	R	H	T	358	R02	520	A5	30	0.69
63416D1	6420E-1-1	20.0	R	H	T	358	R02	520	A5	30	0.69
63416D1	6420E-1-2	20.0	R	H	T	358	R02	520	A5	30	0.69
62808L4	6451E-2-1	10.0	R	H	T	409	REH	521	A5	38	0.79

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

Our order No.: (A08) 2103561

 Your order No.: (A07) 45539

Order registration date: 22.12.2022

Date of dispatch: 28.03.2023 B

Impact testing

Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
62808K2	0214F-2-1	1	CV	7.5x10	H	L	-20	186	199	184	190
62808K1	0224F-2-1	1	CV	7.5x10	H	L	-20	186	199	184	190
63218G2	1013F-1-1	1	CV	10x10	H	L	-20	253	257	264	258
63218G2	1013F-1-2	1	CV	10x10	H	L	-20	253	257	264	258
63218G2	1013F-2-1	1	CV	10x10	H	L	-20	253	257	264	258
63218G2	1013F-2-2	1	CV	10x10	H	L	-20	253	257	264	258
63388D3	3157E-1-1	1	CV	10x10	H	L	-20	279	242	273	265
63388D3	3157E-2-1	1	CV	10x10	H	L	-20	279	242	273	265
63388A3	3814E-1-1	1	CV	10x10	H	L	-20	258	257	277	264
63388A3	3814E-1-2	1	CV	10x10	H	L	-20	258	257	277	264
63388A4	3815E-1-1	1	CV	10x10	H	L	-20	258	257	277	264
63388A4	3815E-1-2	1	CV	10x10	H	L	-20	258	257	277	264
63416C4	4137E-1-1	1	CV	10x10	H	L	-20	179	174	205	186
63416C4	4137E-1-2	1	CV	10x10	H	L	-20	179	174	205	186
63397H4	4142E-2-1	1	CV	10x10	H	L	-20	245	253	228	242
63397H4	4142E-2-2	1	CV	10x10	H	L	-20	245	253	228	242
63397D2	4190E-1-1	1	CV	10x10	H	L	-20	245	253	228	242
63397D2	4190E-1-2	1	CV	10x10	H	L	-20	245	253	228	242
63397D2	4190E-2-1	1	CV	10x10	H	L	-20	245	253	228	242
63397D2	4190E-2-2	1	CV	10x10	H	L	-20	245	253	228	242
63397A3	4372E-2-1	1	CV	10x10	H	L	-20	271	265	270	269
63225A3	4777E-1-1	1	CV	10x10	H	L	-20	166	193	166	175
63225A3	4777E-1-2	1	CV	10x10	H	L	-20	166	193	166	175
63225E1	4814E-1-1	1	CV	7.5x10	H	L	-20	141	147	130	139
63225E1	4814E-1-2	1	CV	7.5x10	H	L	-20	141	147	130	139

Our order No.: (A08) 2103561 Your order No.: (A07) 45539 Order registration date: 22.12.2022 Date of dispatch: 28.03.2023 B

Impact testing (A01) Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63225E1	4814E-2-1	1	CV	7.5x10	H	L	-20	141	147	130	139
63225A4	4816E-1-1	1	CV	7.5x10	H	L	-20	142	129	131	134
63225A4	4816E-1-2	1	CV	7.5x10	H	L	-20	142	129	131	134
63225A4	4816E-2-1	1	CV	7.5x10	H	L	-20	142	129	131	134
63225A1	4820E-1-1	1	CV	10x10	H	L	-20	162	191	195	183
63413E6	5092E-1-1	1	CV	7.5x10	H	L	-20	156	183	177	172
63413E6	5092E-1-2	1	CV	7.5x10	H	L	-20	156	183	177	172
63413E1	5130E-1-2	1	CV	7.5x10	H	L	-20	184	186	179	183
63413E1	5130E-2-1	1	CV	7.5x10	H	L	-20	184	186	179	183
63416E5	5132E-1-1	1	CV	10x10	H	L	-20	179	174	205	186
63416E5	5132E-1-2	1	CV	10x10	H	L	-20	179	174	205	186
62808O4	5372E-1-1	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O3	5373E-1-1	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O3	5373E-1-2	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O2	5382E-1-1	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O2	5382E-1-2	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O1	5383E-1-1	1	CV	7.5x10	H	L	-20	186	199	184	190
62808O1	5383E-1-2	1	CV	7.5x10	H	L	-20	186	199	184	190
63412I4	5396E-1-1	1	CV	10x10	H	L	-20	172	243	235	217
63412I4	5396E-1-2	1	CV	10x10	H	L	-20	172	243	235	217
63412F4	5404E-1-1	1	CV	10x10	H	L	-20	172	243	235	217
63412F4	5404E-1-2	1	CV	10x10	H	L	-20	172	243	235	217
62825N3	5483E-1-1	1	CV	7.5x10	H	L	-20	201	140	189	177
62825N3	5483E-1-2	1	CV	7.5x10	H	L	-20	201	140	189	177
63413H1	5532E-1-1	1	CV	10x10	H	L	-20	258	263	273	265

Our order No.: (A08) 2103561 Your order No.: (A07) 45539 Order registration date: 22.12.2022 Date of dispatch: 28.03.2023 B

Impact testing Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63413H1	5532E-1-2	1	CV	10x10	H	L	-20	258	263	273	265
63413H1	5532E-2-1	1	CV	10x10	H	L	-20	205	215	215	212
63413H1	5532E-2-2	1	CV	10x10	H	L	-20	258	263	273	265
63413G4	5534E-2-2	1	CV	10x10	H	L	-20	236	245	232	238
63413G3	5536E-1-1	1	CV	10x10	H	L	-20	258	263	273	265
63413G3	5536E-1-2	1	CV	10x10	H	L	-20	258	263	273	265
63413G3	5536E-2-1	1	CV	10x10	H	L	-20	258	263	273	265
63413G3	5536E-2-2	1	CV	10x10	H	L	-20	258	263	273	265
62852N2	5574E-2-1	1	CV	7.5x10	H	L	-20	187	199	196	194
62852N1	5584E-2-1	1	CV	7.5x10	H	L	-20	187	199	196	194
63413F4	5592E-1-1	1	CV	10x10	H	L	-20	210	233	230	224
63413F4	5592E-1-2	1	CV	10x10	H	L	-20	210	233	230	224
63413F4	5592E-2-1	1	CV	10x10	H	L	-20	205	215	215	212
63413F4	5592E-2-2	1	CV	10x10	H	L	-20	205	215	215	212
63413F2	5596E-1-1	1	CV	10x10	H	L	-20	205	215	215	212
63413F2	5596E-1-2	1	CV	10x10	H	L	-20	205	215	215	212
63413F2	5596E-1-3	1	CV	10x10	H	L	-20	205	215	215	212
63413F1	5598E-1-1	1	CV	7.5x10	H	L	-20	184	186	179	183
63413F1	5598E-1-2	1	CV	7.5x10	H	L	-20	184	186	179	183
63413F1	5598E-2-1	1	CV	7.5x10	H	L	-20	184	186	179	183
63091E3	5605E-2-1	1	CV	7.5x10	H	L	-20	193	196	186	192
63091E2	5606E-2-1	1	CV	7.5x10	H	L	-20	193	196	186	192
63091E1	5607E-2-1	1	CV	7.5x10	H	L	-20	193	196	186	192
63216L3	5609E-2-1	1	CV	7.5x10	H	L	-20	190	201	197	196
63216L2	5618E-2-1	1	CV	7.5x10	H	L	-20	190	201	197	196

Our order No.: (A08) 2103561 Your order No.: (A07) 45539 Order registration date: 22.12.2022 Date of dispatch: 28.03.2023 B

Impact testing Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63216L1	5619E-2-1	1	CV	7.5x10	H	L	-20	204	204	205	204
63361E2	5918E-1-1	1	CV	10x10	H	L	-20	142	173	171	162
63361E2	5918E-1-2	1	CV	10x10	H	L	-20	142	173	171	162
63361E2	5918E-2-1	1	CV	10x10	H	L	-20	142	173	171	162
63361E2	5918E-2-2	1	CV	10x10	H	L	-20	142	173	171	162
63410E5	6407E-1-1	1	CV	10x10	H	L	-20	226	229	224	226
63410E5	6407E-2-1	1	CV	10x10	H	L	-20	226	229	224	226
63410E4	6409E-1-2	1	CV	7.5x10	H	L	-20	178	165	167	170
63410E4	6409E-2-1	1	CV	7.5x10	H	L	-20	178	165	167	170
63416D5	6415E-2-1	1	CV	7.5x10	H	L	-20	140	142	151	144
63416D2	6419E-1-1	1	CV	10x10	H	L	-20	179	174	205	186
63416D2	6419E-1-2	1	CV	10x10	H	L	-20	179	174	205	186
63416D1	6420E-1-1	1	CV	10x10	H	L	-20	179	174	205	186
63416D1	6420E-1-2	1	CV	10x10	H	L	-20	179	174	205	186
62808L4	6451E-2-1	1	CV	7.5x10	H	L	-20	186	199	184	190

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

Our order No.: (A08) 2103561Your order No.: (A07) 45539

Order registration date: 22.12.2022

Date of dispatch: 28.03.2023 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 III, Section 5) for ferrous nuclides.
Manufactured in Denmark

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