

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63415I4	0200E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415I2	0201E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415I1	0202E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415G3	0203E	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45388
63415G2	0204E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415G1	0205E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63416H3	0206E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63416H2	0207E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63416H1	0208E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388

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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>
63415D4	0220E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415D2	0221E	1	20.0	2000	6000	2	3 768	S355K2+N	Head	45388
63409A1	0270E	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45388
63415D3	0500E	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45388
63415C4	0501E	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45388
63412E4	0529E	1	20.0	2000	6000	1	1 884	S355K2+N	Head	45388
63416H4	1054E	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45388
63415I3	1064E	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45388
63409G3	0027E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409G2	0028E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409G1	0029E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409F3	0030E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409F2	0031E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63412C3	0033E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63412C2	0192E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63412C1	0193E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409H3	0194E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409H2	0195E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63409H1	0196E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63412D3	0197E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63412D1	0199E	2	25.0	2000	6000	4	9 420	S355K2+N	Head	45388
63415C3	0211E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63415C2	0212E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63414G3	0213E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63414G2	0214E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63415A3	0216E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63415A1	0217E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388

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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>
63415D1	0252E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63415H1	0261E	3	30.0	2000	6000	2	5 652	S355K2+N	Head	45388
63409C2	0282E	3	30.0	2000	6000	3	8 478	S355K2+N	Head	45388
63415C1	0502E	3	30.0	2000	6000	2	5 652	S355K2+N	Head	45388
63414G4	0505E	3	30.0	2000	6000	2	5 652	S355K2+N	Head	45388
63414G1	0506E	3	30.0	2000	6000	2	5 652	S355K2+N	Head	45388
63409A4	0532E	3	30.0	2000	6000	2	5 652	S355K2+N	Head	45388
63224G3	4841E	3	30.0	2000	6000	1	2 826	S355K2+N	Head	45388
63409D3	0024E	4	35.0	2000	6000	3	9 891	S355K2+N	Head	45388
63409D1	0026E	4	35.0	2000	6000	3	9 891	S355K2+N	Head	45388
63412G3	0253E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63412G2	0254E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63412G1	0255E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415B3	0256E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415B2	0257E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415B1	0258E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415H3	0259E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415E2	0263E	5	40.0	2000	6000	1	3 768	S355K2+N	Head	45388
63415E1	0264E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63412J1	0267E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63409A3	0268E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63409A2	0269E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63409C3	0271E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63409C1	0283E	5	40.0	2000	6000	2	7 536	S355K2+N	Head	45388
63415H4	0497E	5	40.0	2000	6000	1	3 768	S355K2+N	Head	45388
63409D2	0025E	17	20.0	2500	6000	4	9 420	S355K2+N	Head	45388
63409F1	0032E	17	20.0	2500	6000	4	9 420	S355K2+N	Head	45388

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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>
63412D2	0198E	17	20.0	2500	6000	2	4 710	S355K2+N	Head	45388
63412B3	0209E	18	25.0	2500	6000	3	8 832	S355K2+N	Head	45388
63412B2	0210E	18	25.0	2500	6000	3	8 832	S355K2+N	Head	45388
63412E2	0218E	18	25.0	2500	6000	3	8 832	S355K2+N	Head	45388
63412E1	0219E	18	25.0	2500	6000	3	8 832	S355K2+N	Head	45388
63415G4	0498E	18	25.0	2500	6000	2	5 888	S355K2+N	Head	45388
63415A2	0504E	20	10.0	2450	12000	2	4 616	S355K2+N	Head	45388
63412E3	0530E	20	10.0	2450	12000	2	4 616	S355K2+N	Head	45388
63415A4	0215E	21	16.0	2450	12000	2	7 386	S355K2+N	Head	45388
63412J3	0265E	21	16.0	2450	12000	2	7 386	S355K2+N	Head	45388
63412J2	0266E	21	16.0	2450	12000	2	7 386	S355K2+N	Head	45388
63412D2	0198E	22	20.0	2450	12000	1	4 616	S355K2+N	Head	45388
63415H2	0260E	22	20.0	2450	12000	2	9 232	S355K2+N	Head	45388
63412B1	0995E	22	20.0	2450	12000	1	4 616	S355K2+N	Head	45388
63412J4	0527E	23	30.0	2450	12000	1	6 924	S355K2+N	Head	45388
63412B4	1010E	23	30.0	2450	12000	1	6 924	S355K2+N	Head	45388
						219	584 396			

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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
63224	0.17	1.51	0.20	0.010	0.007	0.029	0.038	0.018	0.002	0.044	0.041	0.002	0.002	0.0050	0.0001
63409	0.18	1.55	0.20	0.008	0.003	0.030	0.019	0.012	0.001	0.040	0.045	0.002	0.002	0.0051	0.0002
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
63414	0.17	1.50	0.20	0.009	0.006	0.032	0.025	0.016	0.003	0.046	0.041	0.001	0.002	0.0037	0.0002
63415	0.17	1.49	0.21	0.010	0.003	0.018	0.021	0.012	0.001	0.044	0.042	0.001	0.002	0.0049	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
63224	0.43	1 3 4 6
63409	0.45	1 3 4 6
63412	0.43	1 3 4 6
63414	0.43	1 3 4 6
63415	0.42	1 3 4 6
63416	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

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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
63409D3	0024E-1-1	35.0	R	H	T	460	REH	619	A5	30	0.74
63409D3	0024E-1-2	35.0	R	H	T	460	REH	619	A5	30	0.74
63409D3	0024E-1-3	35.0	R	H	T	460	REH	619	A5	30	0.74
63409D2	0025E-1-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409D2	0025E-1-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63409D2	0025E-2-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409D2	0025E-2-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63409D1	0026E-1-1	35.0	R	H	T	385	REH	551	A5	30	0.70
63409D1	0026E-1-2	35.0	R	H	T	460	REH	619	A5	30	0.74
63409D1	0026E-1-3	35.0	R	H	T	460	REH	619	A5	30	0.74
63409G3	0027E-1-1	25.0	R	H	T	465	REH	622	A5	30	0.75
63409G3	0027E-1-2	25.0	R	H	T	465	REH	622	A5	30	0.75
63409G3	0027E-2-1	25.0	R	H	T	465	REH	622	A5	30	0.75
63409G3	0027E-2-2	25.0	R	H	T	465	REH	622	A5	30	0.75
63409G2	0028E-1-1	25.0	R	H	T	396	REH	545	A5	30	0.73
63409G2	0028E-1-2	25.0	R	H	T	396	REH	545	A5	30	0.73
63409G2	0028E-2-1	25.0	R	H	T	396	REH	545	A5	30	0.73
63409G2	0028E-2-2	25.0	R	H	T	396	REH	545	A5	30	0.73
63409G1	0029E-1-1	25.0	R	H	T	460	REH	619	A5	30	0.74
63409G1	0029E-1-2	25.0	R	H	T	460	REH	619	A5	30	0.74
63409G1	0029E-2-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409G1	0029E-2-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409F3	0030E-1-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409F3	0030E-1-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409F3	0030E-2-1	25.0	R	H	T	385	REH	551	A5	30	0.70

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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
63409F3	0030E-2-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409F2	0031E-1-1	25.0	R	H	T	383	REH	540	A5	31	0.71
63409F2	0031E-1-2	25.0	R	H	T	383	REH	540	A5	31	0.71
63409F2	0031E-2-1	25.0	R	H	T	396	REH	545	A5	30	0.73
63409F2	0031E-2-2	25.0	R	H	T	396	REH	545	A5	30	0.73
63409F1	0032E-1-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409F1	0032E-1-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63409F1	0032E-2-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409F1	0032E-2-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63412C3	0033E-1-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C3	0033E-1-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C3	0033E-2-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C3	0033E-2-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C2	0192E-1-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C2	0192E-1-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C2	0192E-2-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C2	0192E-2-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C1	0193E-1-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C1	0193E-1-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C1	0193E-2-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412C1	0193E-2-2	25.0	R	H	T	395	R02	557	A5	30	0.71
63409H3	0194E-1-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H3	0194E-1-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H3	0194E-2-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H3	0194E-2-2	25.0	R	H	T	385	REH	551	A5	30	0.70

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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
63409H2	0195E-1-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H2	0195E-1-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H2	0195E-2-1	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H2	0195E-2-2	25.0	R	H	T	385	REH	551	A5	30	0.70
63409H1	0196E-1-1	25.0	R	H	T	396	REH	545	A5	30	0.73
63409H1	0196E-1-2	25.0	R	H	T	396	REH	545	A5	30	0.73
63409H1	0196E-2-1	25.0	R	H	T	396	REH	545	A5	30	0.73
63409H1	0196E-2-2	25.0	R	H	T	396	REH	545	A5	30	0.73
63412D3	0197E-1-1	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D3	0197E-1-2	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D3	0197E-2-1	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D3	0197E-2-2	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D2	0198E-1-1	20.0	R	H	T	378	REH	528	A5	34	0.72
63412D2	0198E-1-2	20.0	R	H	T	378	REH	528	A5	34	0.72
63412D2	0198E-2-1	20.0	R	H	T	378	REH	528	A5	34	0.72
63412D1	0199E-1-1	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D1	0199E-1-2	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D1	0199E-2-1	25.0	R	H	T	378	REH	528	A5	34	0.72
63412D1	0199E-2-2	25.0	R	H	T	378	REH	528	A5	34	0.72
63415I4	0200E-1-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I4	0200E-1-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I4	0200E-2-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I4	0200E-2-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I2	0201E-1-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I2	0201E-1-2	20.0	R	H	T	356	REH	518	A5	29	0.69

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 B

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
63415I2	0201E-2-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I2	0201E-2-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I1	0202E-1-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I1	0202E-1-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I1	0202E-2-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415I1	0202E-2-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415G3	0203E-1-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G3	0203E-2-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G3	0203E-2-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G2	0204E-1-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415G2	0204E-1-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415G2	0204E-2-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415G2	0204E-2-2	20.0	R	H	T	356	REH	518	A5	29	0.69
63415G1	0205E-1-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G1	0205E-1-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G1	0205E-2-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415G1	0205E-2-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63416H3	0206E-1-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H3	0206E-1-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H3	0206E-2-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H3	0206E-2-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H2	0207E-1-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H2	0207E-1-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H2	0207E-2-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H2	0207E-2-2	20.0	R	H	T	368	REH	521	A5	32	0.71

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 B

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
63416H1	0208E-1-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H1	0208E-1-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H1	0208E-2-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H1	0208E-2-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63412B3	0209E-1-1	25.0	R	H	T	395	R02	557	A5	30	0.71
63412B3	0209E-1-2	25.0	R	H	T	364	REH	524	A5	29	0.69
63412B3	0209E-1-3	25.0	R	H	T	364	REH	524	A5	29	0.69
63412B2	0210E-1-1	25.0	R	H	T	373	REH	526	A5	32	0.71
63412B2	0210E-1-2	25.0	R	H	T	373	REH	526	A5	32	0.71
63412B2	0210E-1-3	25.0	R	H	T	373	REH	526	A5	32	0.71
63415C3	0211E-1-1	30.0	R	H	T	358	REH	515	A5	28	0.70
63415C3	0211E-1-2	30.0	R	H	T	358	REH	515	A5	28	0.70
63415C3	0211E-1-3	30.0	R	H	T	358	REH	515	A5	28	0.70
63415C2	0212E-1-1	30.0	R	H	T	358	REH	515	A5	28	0.70
63415C2	0212E-1-2	30.0	R	H	T	358	REH	515	A5	28	0.70
63415C2	0212E-1-3	30.0	R	H	T	358	REH	515	A5	28	0.70
63414G3	0213E-1-1	30.0	R	H	T	358	R02	517	A5	28	0.69
63414G3	0213E-1-2	30.0	R	H	T	358	R02	517	A5	28	0.69
63414G3	0213E-1-3	30.0	R	H	T	358	R02	517	A5	28	0.69
63414G2	0214E-1-1	30.0	R	H	T	365	REH	518	A5	31	0.70
63414G2	0214E-1-2	30.0	R	H	T	358	R02	517	A5	28	0.69
63414G2	0214E-1-3	30.0	R	H	T	358	R02	517	A5	28	0.69
63415A4	0215E-1-1	16.0	R	H	T	398	REH	520	A5	38	0.77
63415A4	0215E-2-1	16.0	R	H	T	398	REH	520	A5	38	0.77
63415A3	0216E-1-1	30.0	R	H	T	358	REH	515	A5	28	0.70

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 B

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
63415A3	0216E-1-2	30.0	R	H	T	358	REH	515	A5	28	0.70
63415A3	0216E-1-3	30.0	R	H	T	358	REH	515	A5	28	0.70
63415A1	0217E-1-1	30.0	R	H	T	358	REH	515	A5	28	0.70
63415A1	0217E-1-2	30.0	R	H	T	358	REH	515	A5	28	0.70
63415A1	0217E-1-3	30.0	R	H	T	358	REH	515	A5	28	0.70
63412E2	0218E-1-1	25.0	R	H	T	373	REH	526	A5	32	0.71
63412E2	0218E-1-2	25.0	R	H	T	373	REH	526	A5	32	0.71
63412E2	0218E-1-3	25.0	R	H	T	373	REH	526	A5	32	0.71
63412E1	0219E-1-1	25.0	R	H	T	373	REH	526	A5	32	0.71
63412E1	0219E-1-2	25.0	R	H	T	373	REH	526	A5	32	0.71
63412E1	0219E-1-3	25.0	R	H	T	373	REH	526	A5	32	0.71
63415D4	0220E-1-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D4	0220E-1-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D4	0220E-2-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D4	0220E-2-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D2	0221E-2-1	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D2	0221E-2-2	20.0	R	H	T	374	REH	523	A5	32	0.72
63415D1	0252E-1-1	30.0	R	H	T	358	REH	515	A5	28	0.70
63415D1	0252E-1-2	30.0	R	H	T	358	REH	515	A5	28	0.70
63415D1	0252E-1-3	30.0	R	H	T	358	REH	515	A5	28	0.70
63412G3	0253E-1-1	40.0	R	H	T	378	REH	528	A5	34	0.72
63412G3	0253E-1-2	40.0	R	H	T	378	REH	528	A5	34	0.72
63412G2	0254E-1-1	40.0	R	H	T	395	R02	557	A5	30	0.71
63412G2	0254E-1-2	40.0	R	H	T	395	R02	557	A5	30	0.71
63412G1	0255E-1-1	40.0	R	H	T	395	R02	557	A5	30	0.71

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 B

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
63412G1	0255E-1-2	40.0	R	H	T	395	R02	557	A5	30	0.71
63415B3	0256E-1-1	40.0	R	H	T	374	REH	523	A5	32	0.72
63415B3	0256E-1-2	40.0	R	H	T	374	REH	523	A5	32	0.72
63415B2	0257E-1-1	40.0	R	H	T	374	REH	523	A5	32	0.72
63415B2	0257E-1-2	40.0	R	H	T	374	REH	523	A5	32	0.72
63415B1	0258E-1-1	40.0	R	H	T	374	REH	523	A5	32	0.72
63415B1	0258E-1-2	40.0	R	H	T	374	REH	523	A5	32	0.72
63415H3	0259E-1-1	40.0	R	H	T	374	REH	526	A5	31	0.71
63415H3	0259E-1-2	40.0	R	H	T	374	REH	526	A5	31	0.71
63415H2	0260E-1-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415H2	0260E-2-1	20.0	R	H	T	356	REH	518	A5	29	0.69
63415H1	0261E-1-1	30.0	R	H	T	375	REH	529	A5	34	0.71
63415H1	0261E-1-2	30.0	R	H	T	375	REH	529	A5	34	0.71
63415E2	0263E-1-1	40.0	R	H	T	374	REH	526	A5	31	0.71
63415E1	0264E-1-1	40.0	R	H	T	374	REH	526	A5	31	0.71
63415E1	0264E-1-2	40.0	R	H	T	374	REH	526	A5	31	0.71
63412J3	0265E-1-1	16.0	R	H	T	385	REH	512	A5	35	0.75
63412J3	0265E-2-1	16.0	R	H	T	385	REH	512	A5	35	0.75
63412J2	0266E-1-1	16.0	R	H	T	385	REH	512	A5	35	0.75
63412J2	0266E-2-1	16.0	R	H	T	385	REH	512	A5	35	0.75
63412J1	0267E-1-1	40.0	R	H	T	373	REH	526	A5	32	0.71
63412J1	0267E-1-2	40.0	R	H	T	373	REH	526	A5	32	0.71
63409A3	0268E-1-1	40.0	R	H	T	385	REH	551	A5	30	0.70
63409A3	0268E-1-2	40.0	R	H	T	385	REH	551	A5	30	0.70
63409A2	0269E-1-1	40.0	R	H	T	460	REH	619	A5	30	0.74

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 B

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
63409A2	0269E-1-2	40.0	R	H	T	460	REH	619	A5	30	0.74
63409A1	0270E-1-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409A1	0270E-1-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63409A1	0270E-2-1	20.0	R	H	T	396	REH	545	A5	30	0.73
63409A1	0270E-2-2	20.0	R	H	T	396	REH	545	A5	30	0.73
63409C3	0271E-1-1	40.0	R	H	T	385	REH	551	A5	30	0.70
63409C3	0271E-1-2	40.0	R	H	T	385	REH	551	A5	30	0.70
63409C2	0282E-1-1	30.0	R	H	T	396	REH	545	A5	30	0.73
63409C2	0282E-1-2	30.0	R	H	T	396	REH	545	A5	30	0.73
63409C2	0282E-1-3	30.0	R	H	T	396	REH	545	A5	30	0.73
63409C1	0283E-1-1	40.0	R	H	T	383	REH	540	A5	31	0.71
63409C1	0283E-1-2	40.0	R	H	T	383	REH	540	A5	31	0.71
63415H4	0497E-1-1	40.0	R	H	T	374	REH	523	A5	32	0.72
63415G4	0498E-1-1	25.0	R	H	T	356	REH	518	A5	29	0.69
63415G4	0498E-1-2	25.0	R	H	T	356	REH	518	A5	29	0.69
63415D3	0500E-1-1	20.0	R	H	T	374	REH	526	A5	31	0.71
63415D3	0500E-1-2	20.0	R	H	T	374	REH	526	A5	31	0.71
63415D3	0500E-1-3	20.0	R	H	T	374	REH	526	A5	31	0.71
63415C4	0501E-1-1	20.0	R	H	T	375	REH	529	A5	34	0.71
63415C4	0501E-1-2	20.0	R	H	T	374	REH	526	A5	31	0.71
63415C4	0501E-1-3	20.0	R	H	T	374	REH	526	A5	31	0.71
63415C1	0502E-1-1	30.0	R	H	T	356	REH	518	A5	29	0.69
63415C1	0502E-1-2	30.0	R	H	T	356	REH	518	A5	29	0.69
63415A2	0504E-1-1	10.0	R	H	T	398	REH	520	A5	38	0.77
63415A2	0504E-2-1	10.0	R	H	T	398	REH	520	A5	38	0.77

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 B

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
63414G4	0505E-1-1	30.0	R	H	T	365	REH	518	A5	31	0.70
63414G4	0505E-1-2	30.0	R	H	T	365	REH	518	A5	31	0.70
63414G1	0506E-1-1	30.0	R	H	T	365	REH	518	A5	31	0.70
63414G1	0506E-1-2	30.0	R	H	T	365	REH	518	A5	31	0.70
63412J4	0527E-1-1	30.0	R	H	T	378	REH	528	A5	34	0.72
63412E4	0529E-1-1	20.0	R	H	T	378	REH	528	A5	34	0.72
63412E3	0530E-1-1	10.0	R	H	T	385	REH	512	A5	35	0.75
63412E3	0530E-2-1	10.0	R	H	T	385	REH	512	A5	35	0.75
63409A4	0532E-1-1	30.0	R	H	T	385	REH	551	A5	30	0.70
63409A4	0532E-1-2	30.0	R	H	T	385	REH	551	A5	30	0.70
63412B1	0995E-1-1	20.0	R	H	T	378	REH	528	A5	34	0.72
63412B4	1010E-1-1	30.0	R	H	T	378	REH	528	A5	34	0.72
63416H4	1054E-1-1	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H4	1054E-1-2	20.0	R	H	T	368	REH	521	A5	32	0.71
63416H4	1054E-1-3	20.0	R	H	T	368	REH	521	A5	32	0.71
63415I3	1064E-1-1	20.0	R	H	T	375	REH	529	A5	34	0.71
63415I3	1064E-1-2	20.0	R	H	T	375	REH	529	A5	34	0.71
63415I3	1064E-1-3	20.0	R	H	T	375	REH	529	A5	34	0.71
63224G3	4841E-1-1	30.0	R	H	T	373	R02	520	A5	30	0.72

Supplementary Information (C99)

 Loc.: (C01) H = head, T = tail

 Dir.: (C02) T = transversal, L = longitudinal

 Shape: (C10) Ø = round, R = rectangular

Original gauge length: 200 mm

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 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>
63409D3	0024E-1-1	1	CV	10x10	H	L	-20	234	237	250	240
63409D3	0024E-1-2	1	CV	10x10	H	L	-20	234	237	250	240
63409D3	0024E-1-3	1	CV	10x10	H	L	-20	234	237	250	240
63409D2	0025E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409D2	0025E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409D2	0025E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409D2	0025E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63409D1	0026E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409D1	0026E-1-2	1	CV	10x10	H	L	-20	234	237	250	240
63409D1	0026E-1-3	1	CV	10x10	H	L	-20	234	237	250	240
63409G3	0027E-1-1	1	CV	10x10	H	L	-20	233	234	239	235
63409G3	0027E-1-2	1	CV	10x10	H	L	-20	233	234	239	235
63409G3	0027E-2-1	1	CV	10x10	H	L	-20	233	234	239	235
63409G3	0027E-2-2	1	CV	10x10	H	L	-20	233	234	239	235
63409G2	0028E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409G2	0028E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409G2	0028E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409G2	0028E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63409G1	0029E-1-1	1	CV	10x10	H	L	-20	234	237	250	240
63409G1	0029E-1-2	1	CV	10x10	H	L	-20	234	237	250	240
63409G1	0029E-2-1	1	CV	10x10	H	L	-20	256	243	238	246
63409G1	0029E-2-2	1	CV	10x10	H	L	-20	256	243	238	246
63409F3	0030E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409F3	0030E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63409F3	0030E-2-1	1	CV	10x10	H	L	-20	256	243	238	246

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 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>
63409F3	0030E-2-2	1	CV	10x10	H	L	-20	256	243	238	246
63409F2	0031E-1-1	1	CV	10x10	H	L	-20	249	240	264	251
63409F2	0031E-1-2	1	CV	10x10	H	L	-20	249	240	264	251
63409F2	0031E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409F2	0031E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63409F1	0032E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409F1	0032E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409F1	0032E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409F1	0032E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63412C3	0033E-1-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C3	0033E-1-2	1	CV	10x10	H	L	-20	199	232	237	223
63412C3	0033E-2-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C3	0033E-2-2	1	CV	10x10	H	L	-20	199	232	237	223
63412C2	0192E-1-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C2	0192E-1-2	1	CV	10x10	H	L	-20	199	232	237	223
63412C2	0192E-2-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C2	0192E-2-2	1	CV	10x10	H	L	-20	199	232	237	223
63412C1	0193E-1-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C1	0193E-1-2	1	CV	10x10	H	L	-20	199	232	237	223
63412C1	0193E-2-1	1	CV	10x10	H	L	-20	199	232	237	223
63412C1	0193E-2-2	1	CV	10x10	H	L	-20	199	232	237	223
63409H3	0194E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409H3	0194E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63409H3	0194E-2-1	1	CV	10x10	H	L	-20	256	243	238	246
63409H3	0194E-2-2	1	CV	10x10	H	L	-20	256	243	238	246

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63409H2	0195E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409H2	0195E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63409H2	0195E-2-1	1	CV	10x10	H	L	-20	256	243	238	246
63409H2	0195E-2-2	1	CV	10x10	H	L	-20	256	243	238	246
63409H1	0196E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409H1	0196E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409H1	0196E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409H1	0196E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63412D3	0197E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D3	0197E-1-2	1	CV	10x10	H	L	-20	153	224	198	192
63412D3	0197E-2-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D3	0197E-2-2	1	CV	10x10	H	L	-20	153	224	198	192
63412D2	0198E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D2	0198E-1-2	1	CV	10x10	H	L	-20	153	224	198	192
63412D2	0198E-2-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D1	0199E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D1	0199E-1-2	1	CV	10x10	H	L	-20	153	224	198	192
63412D1	0199E-2-1	1	CV	10x10	H	L	-20	153	224	198	192
63412D1	0199E-2-2	1	CV	10x10	H	L	-20	153	224	198	192
63415I4	0200E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I4	0200E-1-2	1	CV	10x10	H	L	-20	257	245	223	242
63415I4	0200E-2-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I4	0200E-2-2	1	CV	10x10	H	L	-20	257	245	223	242
63415I2	0201E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I2	0201E-1-2	1	CV	10x10	H	L	-20	257	245	223	242

Our order No.: (A08) 2102861

 Your order No.: (A07) 45388

Order registration date: 13.12.2022

Date of dispatch: 28.02.2023 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>
63415I2	0201E-2-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I2	0201E-2-2	1	CV	10x10	H	L	-20	257	245	223	242
63415I1	0202E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I1	0202E-1-2	1	CV	10x10	H	L	-20	257	245	223	242
63415I1	0202E-2-1	1	CV	10x10	H	L	-20	257	245	223	242
63415I1	0202E-2-2	1	CV	10x10	H	L	-20	257	245	223	242
63415G3	0203E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415G3	0203E-2-1	1	CV	10x10	H	L	-20	255	265	262	261
63415G3	0203E-2-2	1	CV	10x10	H	L	-20	255	265	262	261
63415G2	0204E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415G2	0204E-1-2	1	CV	10x10	H	L	-20	257	245	223	242
63415G2	0204E-2-1	1	CV	10x10	H	L	-20	257	245	223	242
63415G2	0204E-2-2	1	CV	10x10	H	L	-20	257	245	223	242
63415G1	0205E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415G1	0205E-1-2	1	CV	10x10	H	L	-20	255	265	262	261
63415G1	0205E-2-1	1	CV	10x10	H	L	-20	255	265	262	261
63415G1	0205E-2-2	1	CV	10x10	H	L	-20	255	265	262	261
63416H3	0206E-1-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H3	0206E-1-2	1	CV	10x10	H	L	-20	232	228	239	233
63416H3	0206E-2-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H3	0206E-2-2	1	CV	10x10	H	L	-20	232	228	239	233
63416H2	0207E-1-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H2	0207E-1-2	1	CV	10x10	H	L	-20	232	228	239	233
63416H2	0207E-2-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H2	0207E-2-2	1	CV	10x10	H	L	-20	232	228	239	233

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63416H1	0208E-1-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H1	0208E-1-2	1	CV	10x10	H	L	-20	232	228	239	233
63416H1	0208E-2-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H1	0208E-2-2	1	CV	10x10	H	L	-20	232	228	239	233
63412B3	0209E-1-1	1	CV	10x10	H	L	-20	199	232	237	223
63412B3	0209E-1-2	1	CV	10x10	H	L	-20	172	243	235	217
63412B3	0209E-1-3	1	CV	10x10	H	L	-20	172	243	235	217
63412B2	0210E-1-1	1	CV	10x10	H	L	-20	216	223	239	226
63412B2	0210E-1-2	1	CV	10x10	H	L	-20	216	223	239	226
63412B2	0210E-1-3	1	CV	10x10	H	L	-20	216	223	239	226
63415C3	0211E-1-1	1	CV	10x10	H	L	-20	238	223	194	218
63415C3	0211E-1-2	1	CV	10x10	H	L	-20	238	223	194	218
63415C3	0211E-1-3	1	CV	10x10	H	L	-20	238	223	194	218
63415C2	0212E-1-1	1	CV	10x10	H	L	-20	238	223	194	218
63415C2	0212E-1-2	1	CV	10x10	H	L	-20	238	223	194	218
63415C2	0212E-1-3	1	CV	10x10	H	L	-20	238	223	194	218
63414G3	0213E-1-1	1	CV	10x10	H	L	-20	223	219	179	207
63414G3	0213E-1-2	1	CV	10x10	H	L	-20	223	219	179	207
63414G3	0213E-1-3	1	CV	10x10	H	L	-20	223	219	179	207
63414G2	0214E-1-1	1	CV	10x10	H	L	-20	226	217	224	222
63414G2	0214E-1-2	1	CV	10x10	H	L	-20	223	219	179	207
63414G2	0214E-1-3	1	CV	10x10	H	L	-20	223	219	179	207
63415A4	0215E-1-1	1	CV	10x10	H	L	-20	249	262	261	257
63415A4	0215E-2-1	1	CV	10x10	H	L	-20	249	262	261	257
63415A3	0216E-1-1	1	CV	10x10	H	L	-20	238	223	194	218

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63415A3	0216E-1-2	1	CV	10x10	H	L	-20	238	223	194	218
63415A3	0216E-1-3	1	CV	10x10	H	L	-20	238	223	194	218
63415A1	0217E-1-1	1	CV	10x10	H	L	-20	238	223	194	218
63415A1	0217E-1-2	1	CV	10x10	H	L	-20	238	223	194	218
63415A1	0217E-1-3	1	CV	10x10	H	L	-20	238	223	194	218
63412E2	0218E-1-1	1	CV	10x10	H	L	-20	216	223	239	226
63412E2	0218E-1-2	1	CV	10x10	H	L	-20	216	223	239	226
63412E2	0218E-1-3	1	CV	10x10	H	L	-20	216	223	239	226
63412E1	0219E-1-1	1	CV	10x10	H	L	-20	216	223	239	226
63412E1	0219E-1-2	1	CV	10x10	H	L	-20	216	223	239	226
63412E1	0219E-1-3	1	CV	10x10	H	L	-20	216	223	239	226
63415D4	0220E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415D4	0220E-1-2	1	CV	10x10	H	L	-20	255	265	262	261
63415D4	0220E-2-1	1	CV	10x10	H	L	-20	255	265	262	261
63415D4	0220E-2-2	1	CV	10x10	H	L	-20	255	265	262	261
63415D2	0221E-2-1	1	CV	10x10	H	L	-20	255	265	262	261
63415D2	0221E-2-2	1	CV	10x10	H	L	-20	255	265	262	261
63415D1	0252E-1-1	1	CV	10x10	H	L	-20	238	223	194	218
63415D1	0252E-1-2	1	CV	10x10	H	L	-20	238	223	194	218
63415D1	0252E-1-3	1	CV	10x10	H	L	-20	238	223	194	218
63412G3	0253E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412G3	0253E-1-2	1	CV	10x10	H	L	-20	153	224	198	192
63412G2	0254E-1-1	1	CV	10x10	H	L	-20	199	232	237	223
63412G2	0254E-1-2	1	CV	10x10	H	L	-20	199	232	237	223
63412G1	0255E-1-1	1	CV	10x10	H	L	-20	199	232	237	223

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63412G1	0255E-1-2	1	CV	10x10	H	L	-20	199	232	237	223
63415B3	0256E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415B3	0256E-1-2	1	CV	10x10	H	L	-20	255	265	262	261
63415B2	0257E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415B2	0257E-1-2	1	CV	10x10	H	L	-20	255	265	262	261
63415B1	0258E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415B1	0258E-1-2	1	CV	10x10	H	L	-20	255	265	262	261
63415H3	0259E-1-1	1	CV	10x10	H	L	-20	268	256	249	258
63415H3	0259E-1-2	1	CV	10x10	H	L	-20	268	256	249	258
63415H2	0260E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415H2	0260E-2-1	1	CV	10x10	H	L	-20	257	245	223	242
63415H1	0261E-1-1	1	CV	10x10	H	L	-20	255	234	251	247
63415H1	0261E-1-2	1	CV	10x10	H	L	-20	255	234	251	247
63415E2	0263E-1-1	1	CV	10x10	H	L	-20	268	256	249	258
63415E1	0264E-1-1	1	CV	10x10	H	L	-20	268	256	249	258
63415E1	0264E-1-2	1	CV	10x10	H	L	-20	268	256	249	258
63412J3	0265E-1-1	1	CV	10x10	H	L	-20	238	208	233	226
63412J3	0265E-2-1	1	CV	10x10	H	L	-20	238	208	233	226
63412J2	0266E-1-1	1	CV	10x10	H	L	-20	238	208	233	226
63412J2	0266E-2-1	1	CV	10x10	H	L	-20	238	208	233	226
63412J1	0267E-1-1	1	CV	10x10	H	L	-20	216	223	239	226
63412J1	0267E-1-2	1	CV	10x10	H	L	-20	216	223	239	226
63409A3	0268E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409A3	0268E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63409A2	0269E-1-1	1	CV	10x10	H	L	-20	234	237	250	240

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63409A2	0269E-1-2	1	CV	10x10	H	L	-20	234	237	250	240
63409A1	0270E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409A1	0270E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409A1	0270E-2-1	1	CV	10x10	H	L	-20	234	244	250	243
63409A1	0270E-2-2	1	CV	10x10	H	L	-20	234	244	250	243
63409C3	0271E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409C3	0271E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63409C2	0282E-1-1	1	CV	10x10	H	L	-20	234	244	250	243
63409C2	0282E-1-2	1	CV	10x10	H	L	-20	234	244	250	243
63409C2	0282E-1-3	1	CV	10x10	H	L	-20	234	244	250	243
63409C1	0283E-1-1	1	CV	10x10	H	L	-20	249	240	264	251
63409C1	0283E-1-2	1	CV	10x10	H	L	-20	249	240	264	251
63415H4	0497E-1-1	1	CV	10x10	H	L	-20	255	265	262	261
63415G4	0498E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415G4	0498E-1-2	1	CV	10x10	H	L	-20	257	245	223	242
63415D3	0500E-1-1	1	CV	10x10	H	L	-20	268	256	249	258
63415D3	0500E-1-2	1	CV	10x10	H	L	-20	268	256	249	258
63415D3	0500E-1-3	1	CV	10x10	H	L	-20	268	256	249	258
63415C4	0501E-1-1	1	CV	10x10	H	L	-20	255	234	251	247
63415C4	0501E-1-2	1	CV	10x10	H	L	-20	268	256	249	258
63415C4	0501E-1-3	1	CV	10x10	H	L	-20	268	256	249	258
63415C1	0502E-1-1	1	CV	10x10	H	L	-20	257	245	223	242
63415C1	0502E-1-2	1	CV	10x10	H	L	-20	257	245	223	242
63415A2	0504E-1-1	1	CV	7.5x10	H	L	-20	174	181	172	176
63415A2	0504E-2-1	1	CV	7.5x10	H	L	-20	174	181	172	176

Our order No.: (A08) 2102861 Your order No.: (A07) 45388 Order registration date: 13.12.2022 Date of dispatch: 28.02.2023 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>
63414G4	0505E-1-1	1	CV	10x10	H	L	-20	226	217	224	222
63414G4	0505E-1-2	1	CV	10x10	H	L	-20	226	217	224	222
63414G1	0506E-1-1	1	CV	10x10	H	L	-20	226	217	224	222
63414G1	0506E-1-2	1	CV	10x10	H	L	-20	226	217	224	222
63412J4	0527E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412E4	0529E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412E3	0530E-1-1	1	CV	7.5x10	H	L	-20	186	185	190	187
63412E3	0530E-2-1	1	CV	7.5x10	H	L	-20	186	185	190	187
63409A4	0532E-1-1	1	CV	10x10	H	L	-20	256	243	238	246
63409A4	0532E-1-2	1	CV	10x10	H	L	-20	256	243	238	246
63412B1	0995E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63412B4	1010E-1-1	1	CV	10x10	H	L	-20	153	224	198	192
63416H4	1054E-1-1	1	CV	10x10	H	L	-20	232	228	239	233
63416H4	1054E-1-2	1	CV	10x10	H	L	-20	232	228	239	233
63416H4	1054E-1-3	1	CV	10x10	H	L	-20	232	228	239	233
63415I3	1064E-1-1	1	CV	10x10	H	L	-20	255	234	251	247
63415I3	1064E-1-2	1	CV	10x10	H	L	-20	255	234	251	247
63415I3	1064E-1-3	1	CV	10x10	H	L	-20	255	234	251	247
63224G3	4841E-1-1	1	CV	10x10	H	L	-20	216	219	213	216

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

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We hereby certify that the material has been made and tested in accordance with the mentioned specification(s).
Certified according to Construction Products Regulations (305/2011/EU) by TÜV NORD Systems GmbH (Notified Body Reg. No. 0045).
For Declaration of Performance please see www.DanSteel.dk and DoP number 010CPR2013-07-01.



TÜV-NORD 0045-CPR-0554

Year of initial inspection: 2005

Intended use: Welded, bolted and riveted structures.

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