

Material Certificate List

Shipping Address		Information	
Ship-to-party	TAMMINIITY OY KETJUTIE 4 27710 KÄYLIÄ FINLAND	Document Number	80481199
		Delivery Date	11.05.2021
		Sales Order Number	153021
		Sales Order Date	07.05.2021
		Purchase Order Number	6568
		Customer Number	201512
		Mode of Transportation	
		Delivery Term	DAP EURA
		Country of Origin	
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
		Delivery Plant	35A1
		Certificate Receiver	myynti@tamminiity.fi
Buyer			
Sold to Party	TAMMINIITY OY KETJUTIE 4 27710 KÄYLIÄ FINLAND		
Weight-Volume			
Total Gross Weight	12.679,00 KG		
Total Net Weight	12.679,00 KG		
Total Packages	5		

Shipping Details					
Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
10	13002039 Hot Rolled Pickled,Sheet, 3.00X1500.00X3000.00	4010300	2.500,00	2.600,00	2.600,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001216818	Material ID	821520		
20	13002042 Hot Rolled Pickled,Sheet, 6.00X1500.00X3000.00	4010600	2.500,00	2.590,00	2.590,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001236708	Material ID	835136		
30	13001616 Hot Rolled Pickled,Sheet, 8.00X1500.00X3000.00	4010800	2.500,00	2.543,00	2.543,00 KG
Steel Grade	S355				
Batch	0001208836	Material ID	606852		
40	13001617 HRP,SHEET, 10.00X1500.00X3000.00	4011000	5.000,00	0,00	0,00 KG
Steel Grade	S355				
Batch		Material ID			
900001	13001617 Hot Rolled Pickled,Sheet,	4011000	5.000,00	2.473,00	2.473,00 KG

Naantali Steel Service Centre Oy

Rautakatu 5, 21110, Naantali, Finland

T: +358 (0)10 28 76 901, naantalissc@tatasteelurope.com

Reg. No. 2674812-1

Material Certificate List**Information**

Document Number	80481199
Delivery Date	11.05.2021

Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
Steel Grade	10.00X1500.00X3000.00 S355				
Batch	0001216511	Material ID	6068601		
900002	13001617 Hot Rolled Pickled, Sheet, 10.00X1500.00X3000.00	4011000	5.000,00	2.473,00	2.473,00 KG
Steel Grade	S355				
Batch	0001216508	Material ID	6068601		

A01 Tata Steel IJmuiden BV Wenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail: info.testing@tatasteel.eu.com	A03 Doc nr. 2021020829 00		A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500034290 11001464 00020	A08 Order nr. 56496 B	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5 21110 NAANTALI FINLAND	B01,B02,B03,B04,B15 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010, 1.00 G/M2/Side oiled, Mill edges Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.13/-0.13 mm) PRODUCE AND TEST ACCORDING TO EN 10149-2 Country of melt and pour: The Netherlands		C70 STEEL MAKING PROCESS: BO
	B09,B10,B11 Dimensions 1500 mm X 3.00 mm		
	B13 Total Mass KG 60926	B08 Total NR. 6	
	A10 Dispatch Note 80419	A10 Transport MEREL V	

Buigproef/Bend test/Biegeversuch/Test de flexion : 'goed/good/gut/concluant' C50

PROD-IDENT: 821520	MASS KG: 10111	NR: 1	CAST NR: S1647	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	489	27.0	81

PROD-IDENT: 821519	MASS KG: 10001	NR: 1	CAST NR: S1647	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	489	27.0	81

PROD-IDENT: 821518	MASS KG: 9991	NR: 1	CAST NR: S1647	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	489	27.0	81

PROD-IDENT: 821488	MASS KG: 10291	NR: 1	CAST NR: S1647	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	398	481	32.5	83

PROD-IDENT: 821487	MASS KG: 10251	NR: 1	CAST NR: S1647	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	398	481	32.5	83

We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions.

Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing
IJmuiden, 20 February 2021

Jeffrey Flemming

Page 1 of 2 Z01,202

A01 Tata Steel IJmuiden BV Wenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail: info.testing@tatasteeleurope.com	A03 Doc nr. 2021020829 00		A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500034290 11001464 00020	A08 Order nr. 56496 B	

PROD-IDENT: 821486	MASS KG: 10281	NR: 1	CAST NR: S1647	B07,B08,B13
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TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
	Surface Longitudinal	Prismatical	Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle			+20	398	481	32.5	83	

CHEMICAL COMPOSITION in %												
B07	CAST NR.	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81
	S1647	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb
		0.074	0.508	0.012	0.007	0.008	0.038	0.032	0.050	0.036	0.008	0.026
	CAST NR.	C82	C83	C84	C85	C86	C87	C88				
	S1647	V	N	B	Ti	Sn	Al_ZO	C-eq1				
		0.002	.0030	.0000	0.001	0.003	0.035	.175				
C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15												

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Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing
IJmuiden, 20 February 2021

Jeffrey Flemming

Page 2 of 2

Z01,202

A01 Tata Steel IJmuiden BV Wenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail: info.testing@tatasteeleurope.com	A03 Doc nr. 2021042315 00	A04 TATA STEEL
	A02 Inspection certificate 3,1, EN10204.	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5 21110 NAANTALI FINLAND	A07, A09 Reference 4500038449 11001477 00040	A08 Order nr. 59868 D
	B01,B02,B03,B04,B15 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010. 1.00 G/M2/Side oiled. Mill edges. Impact test. Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0,16/-0,16 mm). Country of Melt and Pour : Netherlands	
C70 STEEL MAKING PROCESS: BO		B09,B10,B11 Dimensions 1500 mm X 6 mm
B13 Total Mass KG 26126		B08 Total NR. 2
All Dispatch Note 16944		A10 Transport ANDREA

Buigproef/Bend test/Biegeversuch/Test de flexion : 'goed/good/gut/concluant'

C50

PROD-IDENT: 835136 MASS KG: 13078 NR: 1 CAST NR: S4086 B07,B08,B13

TENSILE TEST

C10-29

C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	417	497	29,0	84

IMPACT TEST AND OTHER TESTS

C40,C60,C65

C01	C01/C02	C10	C03 Temp °C	B05	C41 mm	C40,C60,C65	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean
Bottom Middle	Surface Longitudinal	Prismatical	-20	0	5,0	ISO-V	J	108	112	109	110

PROD-IDENT: 835135 MASS KG: 13048 NR: 1 CAST NR: S4086 B07,B08,B13

TENSILE TEST

C10-29

C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	417	497	29,0	84

IMPACT TEST AND OTHER TESTS

C40,C60,C65

C01	C01/C02	C10	C03 Temp °C	B05	C41 mm	C40,C60,C65	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean
Bottom Middle	Surface Longitudinal	Prismatical	-20	0	5,0	ISO-V	J	108	112	109	110

CHEMICAL COMPOSITION in %

B07 CAST NR.	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb
S4086	0.068	1.004	0.012	0.006	0.009	0.032	0.016	0.029	0.028	0.003	0.024
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1				
S4086	0.003	.0020	.0000	0.001	0.002	0.030	.245				

C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions.

Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing

Jeffrey Flemming

IJmuiden, 12 April 2021

TATA STEEL
 Inspection certificate 3.1, EN10204.
 4500033648
 MDA
 550001066
 11008663
 2021009576 00
 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.
 1.00 G/M2/Side oiled.
 Mill edges.
 Impact test.
 Suitable for: Part galvanising, Cutting into sheet.
 Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.18/-0.18 mm).
 PRODUCE AND TEST ACCORDING TO EN 10149-2
 Country of melt and pour : The Netherlands.
SERVICE CENTRE MAASTRICHT B.V.
B.U. FEIJEN
POSTBUS 10.000
1970 CA IJMUIDEN
NOORDHOLLAND
 56529 A
 ALL Dispatch note
 70387
 1500 mm X 8.00 mm
 1 R7792
 1 R7792
 1 R7794
 1 R7799
 31880
 31880
 28860
 31840
 124460 4
 56529 A
 70387
 1500 mm X 8.00 mm
 1 R7792
 1 R7792
 1 R7794
 1 R7799
 31880
 31880
 28860
 31840
 124460 4

1: J/cm²
 2: J
 3: Later. exp. (mm)
 4: Contraction (%)
 5: Shear area (%)
 1: Top
 2: Middle
 3: Bottom
 1: Edge
 2: Surface
 3: Centre
 1: Longitudinal
 2: Transverse
 2-in thick dir
 2-in thick dir
 2-in thick dir
 C=eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15
 Page 1 of 1

TENSILE TEST										IMPACT TEST AND OTHER TESTS												
PROO. IDENT	MASS kg	NR	CAST NR.	Temp °C	R _{eH} MPa	R _{eL} MPa	R _m MPa	R _m 2 MPa	A %	A %	R _H /R _m %	r _m value	n-value	HARDNESS	mm	Temp °C	mm	ind. ind.	ind. ind.	mean	ASTM E-112	
606854	31880	1	R7792	+ 20	402		495	30.5	81						0	- 20	2	115	118	121	118	
606852	31880	1	"	+ 20	393		484	30.5	81						0	- 20	2	120	112	114	115	
606853	28860	1	R7794	+ 20	401		487	30.0	82						0	- 20	2	102	104	107	104	
606855	31840	1	R7799	+ 20	400		495	30.5	81						0	- 20	2	131	121	126	126	
TOTAL																						

CHEMICAL COMPOSITION in %														
C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb	Mb	V	N	B
0.072	1.030	0.016	0.005	0.011	0.036	0.068	0.024	0.016	0.003	0.024	0.005	0.005	0.030	0.000
0.076	1.040	0.013	0.006	0.008	0.029	0.006	0.020	0.016	0.003	0.023	0.003	0.003	0.030	0.000
0.074	1.018	0.015	0.004	0.009	0.033	0.007	0.031	0.016	0.002	0.025	0.002	0.002	0.029	0.001

C58 Buigproef/Bend test/Biegeversuch/Test de flexion : goed/good/gut/concluent
 Stamp of the expert :
Tata Steel IJmuiden BV
JEFFREY FLEMING
MGR. MECH. TESTING
Jeffrey Fleming
IJMUIDEN, 25 JANUARI 2021

201 We hereby confirm that we comply to the terms of our order
 acknowledgement and any agreed concessions
 01R0675E 01R09711S

TATA STEEL

Inspection certificate 3.1, EN10204.

4500033649

Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.

1.00 G/M2/Side oiled.
Mill edges.
Impact test.

Suitable for: Part galvanising, Cutting into sheet.
Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.19/-0.19 mm).
PRODUCE AND TEST ACCORDING TO EN 10149-2
Country of melt and pour : The Netherlands.

SERVICE CENTRE HAASTRICHT B.V.
B.U. FEIJEN
POSTBUS 10.000

1970 CA IJMUIDEN
NOORDHOLLAND

ZM

401 Tata Steel IJmuiden BV Hoekeburchstrat 1 3906 JP IJmuiden Noord 1970 EA IJmuiden The Netherlands Telephone: 0201-492118 Company Trade Register 64843521 E-mail: info.testing@tatasteel-europe.com	407-409 Reference 5500011067 11006864 MDA	410 Dispatch note 70387
405 Doc. nr 2021009575 00	411 Transport SEMIPOST	

IMPACT TEST AND OTHER TESTS

TENSILE TEST		HARD-NESS		IMPACT TEST AND OTHER TESTS															
PROD.-IDENT	MASS kg	NR	CAST NR.	C15 A %	C15 A %	C14 R _{et} /R _m %	C17 r ₁ value	C18 n-value	C52	C01/ C19 C02	C03 mm	C04 Temp °C	C42 Ind. Ind.	C43 Ind. Ind.	C45 Ind. Ind.	C49 ASTM E-112			
6068591	28040	1	R7788	490	30.5	81				1L P	0	7.5 ISO-V	20	2	195	201	195	197	
606882	31820	1	R7794	481	30.0	79				1L P	0	7.5 ISO-V	20	2	211	188	212	204	
6068601	27700	1	R7799	484	30.5	80				1L P	0	7.5 ISO-V	20	2	207	211	150	189	
TOTAL	87560	3																	

CHEMICAL COMPOSITION in %

CAST NR.	PROD.-IDENT	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb	V	N	B	C-eq	A1-Z0	Sn	Ti	C-eq1
R7788		.076	0.985	.012	.005	0.010	0.032	.008	0.020	0.017	.002	.023	.003	.0029	.0000	0.031	.001	.001	.249	
R7794		.078	1.040	.015	.006	0.008	0.029	.008	0.020	0.016	.003	.025	.003	.0030	.0000	0.028	.001	.001	.256	
R7799		.074	1.018	.015	.006	0.009	0.033	.007	0.031	0.016	.002	.025	.002	.0029	.0001	0.032	.001	.001	.252	

C50 Buigproef/Bend test/Siegeversuch/Test de flexion : goed/good/gut/concluant

Stamp of the expert :

Tata Steel IJmuiden BV

JEFFREY FLEMING
MGR. MECH. TESTING

Jeffrey Fleming

IJMUIDEN, 25 JANUARI 2021

444 1: J/cm²
2: J
3: Later. exp. (mm)
4: Contraction (Z)
5: Shear area (Z)

471-472

471
1: Top
2: Middle
3: Bottom
C-eql: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

470
STEELMAKING PROCESS: BO
Page 1 of 1

472

484

We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions

010675E