A01
Tata Steel IJmuiden BV
Wenckebachstraat 1
PO Box 10000
1970 CA IJmuiden the Netherlands
Telephone: 0251-492111

Company trade Register 34046151
E-mail: info.testing@tatasteeleurope.com

A07,A09 Reference
4500010217
11001475 LASERKESKUS 00030

A02
Inspection certificate 3.1, EN10204.

B01,B02,B03,B04,B19
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 +0.15/-0.15 mm).

A03 Doc. nr
2019034939 00

A04 Customer/Consignee
NAANTALI STEEL SERVICE CENTRE OY
RAUTAKATU 5

21110 NAANTALI
FINLAND

A08 Order nr.
55771 C

A11 Dispatch note
55591

A18 Transport
JOLYN

Z04

B04,B18,B11 Dimensions
1500 mm X 5.00 mm

C10-C29 TENSILE TEST

HARD-NESS C02

C48,C50,C65 IMPACT TEST AND OTHER TESTS

B07 PROD.-IDENT	B15 MASS kg	B08 NR	B07 CAST NR.	C81	C01/C02	C18	C05	C03 Temp °C	C11 R_{eH} MPa	C11 R_{eL} MPa	C11 $R_{p0.0}$ MPa	C12 R_m MPa	C13 A %	C13 A %	C16 R_{eH}/R_m %	C17 r-value	C19 n-value	C02	C01/C02	C18	C05	C41 mm	C48,C50,C65	C03 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean	C05 ASTM E-112
866830	10450	1	M3241	32	1L	P		+ 20	386			474	32.0		81														
866831	10400	1	**																										
866753	9920	1	**	32	1L	P		+ 20	386			472	31.5		82														
TOTAL	30770	3																											

C71-C92 CHEMICAL COMPOSITION in %

B07 CAST NR.	B07 PROD.-IDENT	C71 C	C72 Mn	C75 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb	C82 V	C95 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eq1
M3241		.070	0.510	.012	.006	0.007	0.025	.012	0.030	0.024	.002	.025	.004	.0021	.0000		0.025	.002	.001	.165

C49 1: J/cm² 4: Contraction (%)
2: J 5: Shear area (%)
3: Later. exp. (mm)

C01 1:1=Top 2:1=Edge 2=Middle 2=Middle 3=Bottom
C01 C02 L=Longitudinal I=Surface T=Transverse Z=Centre Z=In thickn dir 1/4 Surface D=In Diagonal dir
C18 P=prismatical C=cylindrical

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

C78 STEELMAKING PROCESS: BO

C50 Bulgproef : goed / good / gut / conclueant

Z03 Stamp of the expert :

Z02
Tata Steel IJmuiden BV

JOOST COPPENS
MANAGER TESTING

IJMUIDEN, 2 APRIL 2019

Z05

B06 B04

Z01 We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions