AD1
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.com

AD7.AD9 Reference
32779

AD2
Inspection certificate 3.1, EN10204.

TATA STEEL

AD3 Doc. nr
2015073596 00

B01.B02.B03.B04.B15
Hot rolled dry, Coil, S355MC, YMPRESS WG S.
Mill edges.
Suitable for: Cutting into sheet.

Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.24/-0.24 mm).
PRODUCE AND TEST ACCORDING TO EN 10149-2

Z04

AD6 Customer/Consignee
OY ALUSTEEL AB
TELAKKATIE 4

23500 UUSIKAUPUNKI

FINLAND

AD8 Order nr.
53947 H

A11 Dispatch note
67326

A10 Transport
ROBIJN

B09.B10.B11 Dimensions
1500 mm X 20 mm

C10-C29 TENSILE TEST

HARD-NESS

C40.C60.C65 IMPACT TEST AND OTHER TESTS

B07 PROD.-IDENT	B13 MASS kg	B08 NR	B07 CAST NR.		C01	C01/C02	C10	B05	C03 Temp °C	C11 R_{eH} MPa	C11 R_{eL} MPa	C11 R_p MPa	C12 R_m MPa	C13 A %	C13 A %	C16 R_{eH}/R_m %	C17 r-value	C18 n-value	C32	C01/C02	C10	B05	C41 mm	C40.C60.C65	C03 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean	C95 ASTM E-112
1970046	31780	1	R3802		32	1L	P		+ 20	390			507	29.9		77															
1970047	31720	1	"		32	1L	P		+ 20	378			508	28.7		74															
1970049	31800	1	R3804		32	1L	P		+ 20	364			511	30.4		71															
1970050	31760	1	"		32	1L	P		+ 20	362			509	30.1		71															
TOTAL	127060	4																													

C71-C92 CHEMICAL COMPOSITION in %

B07 CAST NR.	B07 PROD.-IDENT	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb	C82 V	C83 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eql
R3802		.059	1.328	.011	.005	0.009	0.030	.013	0.022	0.022	.004	.034	.002	.0033	.0000		0.028	.003	.001	.288
R3804		.060	1.324	.011	.004	0.019	0.039	.015	0.023	0.021	.004	.034	.003	.0031	.0000		0.037	.003	.002	.289

C44
1: J/cm²
2: J
3: Later. exp. (mm)
4: Contraction (%)
5: Shear area (%)

C01
1:1=Top 2:1=Edge
2=Middle 2=Middle
3=Bottom

C01 C02 L=Longitudinal
1=Surface T=Transverse
2=Centre Z=in Thickn dir
3=¼ Surface D=in Diagonal dir

C10
P=prismatical
C=cylindrical

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

C70 STEELMAKING PROCESS: BO

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Z03
Stamp of the expert :

Z05

B06

AD4

Z01
We certify that the delivery complies with the order prescriptions.

Z02
Tata Steel IJmuiden BV
Test House, IJmuiden

SIMON BRAAM
MANAGER TESTING

IJMUIDEN, 6 NOVEMBER 2015