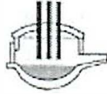


Buderus Edelstahl GmbH Buderusstraße 25, 35576 Wetzlar		Buderus Edelstahl	
NJSB TAG NO. 181	Inspection certificate EN 10204-3.1		Stempel des Abnahmebeauftragten Inspector's Stamp
	Certificate No. 305720/1		
	Our Reference No. Pos. 512086 1		

Heat No.
19777

Melting process	Electric steel
Casting method	Ingot casting
Material Grade	80CrV2
Steel gr.no.	2235
Production order	4316161
Shipment no./Date	6021770695/27.07.2018
Invoice No./Date	6035011734/01.08.2018

Material description : Hot rolled Strip skin passed

Customer Order-No. : PO-000041 Pos. 5

Specification : Analysis:

C 0.75 - 0.85 %
Si 0.15 - 0.35 %
Mn 0.30 - 0.50 %
P max. 0.025 %
S max. 0.020 %
Cr 0.40 - 0.60 %
Ni max. 0.40 %
Mo max. 0.10 %
V 0.15 - 0.25 %

Dimension : 9.78 x 400.00 x 1,219.20 mm (.385 x 15.75 x 48")
thickness tolerance +0.075 /-0.075 mm (+/- .003")
width tolerance +4.68 /-0.00 mm (+.184/-0")
length 1,219.20 mm +12.00 / -0.00 mm (48 +.47/-0")

Chemistry Analysis (% - H [Hydrogen] in ppm)

19777	C	Si	Mn	P	S	Cr	Ni	Mo
	0.790	0.330	0.391	0.0059	0.0010	0.492	0.060	0.010
	V							
	0.160							

Hardness Test

K6161 HBW: 666.6 MPa

We confirm, the material contains no radioactive contamination, that exceeds the natural values. The relevant legal requirements are kept.

Certificate is prepared by EDP-System and is valid without signature.

We hereby certify, the above mentioned material is in accordance with the terms of the order.

Approval & Certification	Manufacturer Works inspector	Page 1 of 1
Wetzlar, 02.08.2018	Kai-Lukas Lotz	Enclosures <input type="checkbox"/>