



Certificate No.
178010



Revision
00

Customer Order No.
17117

Production mill
Avesta Plant

Date
08 Feb 2023

Delivery No.
8000179595

Sold to Htm Yhtiöt Oy Tiilitehtaantie 23 12310 RYTTYLÄ FINLAND		Product Stainless Steel Hot Rolled Plate, Slit edge, Supra 316L/4404 Finish 1D		Grade 1.4401 1.4404 TYPE 316 / UNS S31600 TYPE 316L / UNS S31603	
Ship to Htm Yhtiöt Oy Teollisuuskuj 1 14200 TURENKI FINLAND		Requirements AD 2000 W 2, Ausg. 01.2020, W 10, Ausg. 01.2020 & EN 10028-7:2016 ASME SA-240/SA-240M BPVC.II.A-2021 ASTM A240/A240M - 22 EN 10028-7:2016 EN 10088-2:2014 EN 10088-4:2009 NACE MR0175/EN ISO 15156-1:2020 & NACE MR0175/EN ISO 15156-3:2020			
Mark of manufacturer 		Process E+AOD	Inspector's Stamp 	ASME SA-480/SA-480M BPVC.II.A-2021 ASTM A480/A480M - 22 EN ISO 9444-2:2010	
Sales order Item 100		Dimensions 10,00 X 1500,0 X 3000 mm	Quantity (pcs) 22	Weight 7891 kg	Heat No. 230021
					Lot No. 775
					Identification No. of Product 230021-775
					Customer's Material No. 17117

Chemical Composition

Heat No.	Country of Melt	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	N %
230021	United Kingdom	0,017	0,48	1,58	0,032	0,001	16,9	10,1	2,04	0,048

Test Results (1=Beginning, 2=Middle, 3=End, T=Transverse, L=Longitudinal, D=Diagonal, RT=Room temperature)

Identification No. of Product	Sample ID	EN ISO 6892-1 / ASTM A370 (RT)					ASTM E10 / EN ISO 6506-1
		RP0.2 MPa	RP1.0 MPa	RM MPa	A5 %	A50 %	HARDNESS HBW
230021-775	Minimum	220	260	530	40	40	217
	Maximum			680			
230021-775	1 T 815517	327	365	600	56	58	187
230021-775	3 T 815518	333	372	603	54	56	187
		EN ISO 3651-2 A	PMI				
Identification No. of Product	Sample ID	INTERGRANULAR CORROSION					
		Minimum	Maximum				
230021-775	1 T 815517	OK	OK				
230021-775	3 T 815518	OK	OK				

Country of Origin: Sweden



Certified acc. to PED 2014/68/EU by TÜV NORD, notified body, Reg-No. 0045

Certified acc. to AD 2000-Merkblatt W0 by TÜV NORD

Solution annealed at 1075 °C/1967 °F. Rapidly cooled with water and air.

DOPS acc. to CPR available on the web page by steel number

Avg.t CO2e/t: 1,47

Outokumpu Stainless AB Business Area Operations Avesta SWEDEN Tel: +46 (0)226 811 73 Regoffice: Stockholm SWEDEN, Regno: 556001-8748 V.A.T no: SE556001874801	This material is found to comply with order requirements  Joakim Johansson Authorized Inspector certificates.avesta@outokumpu.com	 10 0045 - CPR - 0869 DoP (Declaration of Performance) on: www.outokumpu.com/locations/avesta
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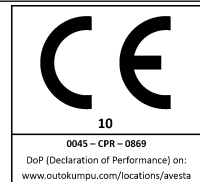
	<u>Certificate No.</u>	<u>Revision</u>	<u>Customer Order No.</u>
	178010	00	17117
<u>Production mill</u>	<u>Date</u>	<u>Delivery No.</u>	
Avesta Plant	08 Feb 2023	8000179595	

Model verified. Scope 1, 2, 3 - Calculation details available on Outokumpu's website

Marking, visual and dimensional inspection: Approved

Outokumpu Stainless AB
 Business Area
 Operations Avesta
 SWEDEN
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 Regoffice: Stockholm SWEDEN,
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 Joakim Johansson
 Authorized Inspector
 certificates.avesta@outokumpu.com





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Packing Information

<u>Delivery Item</u>	<u>Identification No. of Product</u>	<u>Batch No.</u>	<u>Quantity(pcs)</u>	<u>Weight</u>	<u>Length</u>
20	230021-775	D037906430	5	1793 kg	
20	230021-775	D037906530	5	1793 kg	
20	230021-775	D037906630	4	1433 kg	
20	230021-775	D037906730	4	1435 kg	
20	230021-775	D037906830	4	1437 kg	

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