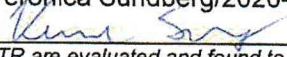
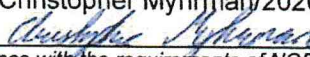

 outokumpu <small>high performance stainless steel</small>	QTR Qualification Test Record NORSOK M-650				QTR. No.: QTR_S32205/S31803
					Rev. No.: 4
Manufacturer name/address/ Web page:	Outokumpu Stainless AB, Quarto Plate Europe, SE-693 81 Degerfors www.outokumpu.com				
Reference standard	NORSOK M-650 rev.4				
Material designation and MDS No.:	ASTM A240 UNS S31803, ASTM A240 UNS S32205 MDS D45 rev. 5				
Manufacturing summary doc. No.:	MS_2205				Rev. No.: 8
Products and manufacturing process(es):	Quarto stainless plate Europe, solution annealed and pickled: Production Routes: A2: Slab Avesta + Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors B2: Slab SMACC+ Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors D1: Slab Avesta + Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors D2: Slab SMACC+ Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors E1: Slab Avesta + Rolling in Avesta (SHRP) + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors E2: Slab Avesta + Rolling in Avesta (SHRP) + Heat treatment in Rolling Hearth Furnace Degerfors E3: Slab Tornio+ Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors E4: Slab Tornio+ Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors				
Mandatory conditions and sub-contractors:	Sub-contractors: Slab SMACC, Slab Avesta, Slab Tornio				
Other information:	Verification of Heat treatment Furnaces carried out. References: - Report 4.0 Verification of heat treatment procedure in Roller Hearth furnace, 1100 C° - Verification report BF1 (880-109) - Verification report BF2 (880-110)				
Qualification expires	11-11-2025				
Tested and Qualified Thickness and Weight					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Hot rolled stainless plate, solution annealed and pickled:					
A2	TR_8625-11-01	30	30	2811	-
B2	TR_8702-48-01	30	30	2811	-
D1	TR_3375-31-02	70	70	3280	-
D2	TR_3270-11-03	80	80	3748	-
E1	TR_8428-02-13	25	31	2687	-
E2	TR_8428-02-09	25	31	2682	-
E3	TR_8369-14-01	25	31	5770	-
E4	TR_8368-12-01	80	80	6450	-
Qualification/Acceptance signatures					
Manufacturer: Outokumpu Stainless AB	Prepared by/Date: Technical development Veronica Sundberg/2020-10-22 	Checked by/Date: General Manager T&Q dept. Christopher Myhrman/2020-10-22 			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.					
Qualified/Accepted by (company name/address):  AkerSolutions Fornebu, Norway NO 929 677 950 VAT			Signature/Date: 04/11/2020 