


				SSAB EMEA AB, SE-781 84 BORLÄNGE, Sweden A01							
Inspection certificate EN 10 204 - 3.1	A02	Issuing department Quality inspection	A05	Purchaser order no 1741842-1	A07	Our order no 156561-6	A08	Invoice no 2941061	A19	Certificate no and date 17036560 2018-01-11	A03

Purchaser TIBNOR ESTONIA AS MÄNNIKU TEE 140 EE-75511 MÄNNIKU KULA ESTLAND	A11	Product Hot rolled sheets	B01	Marking Manufacturer, MATERIAL ID	B06	Customer marks	B15				
	13373	Quantity 14	B08	Dimensions [mm] T 5 W 1500 L 3000	B09-B11	Weight [kg] 2470	B12	Deliv. Cond. B04	Internal code	B16	
	Consignee TIBNOR ESTONIA AS MÄNNIKU TEE 140 EE-75511 ESTLAND	A06	Standard/rules SSAB Steel grade STRENX 650 MC D	B02							
MATERIAL ID 50-2297-234973-07											B07

Chemical composition										C71-C92	Carbon equivalent etc	C93-C99						
Heat no 50-2297	C .076	Si .20	Mn 1.64	P .014	S .002	Cr .03	Ni .04	Mo .00	V .01	Ti .13	Cu .01	Al .046	Nb .065	B .0002	N .005	Cekv .36	Cekv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5	

Testtype	C04	Millcode	C00	Specimen position	C01	Direction	C02	Treatment	B05	Specimen type	C10	Temp [degr C]	C03	Test results					
Tensile test		DSG413		Top end		Longitudinal		Delivery condition		Rectangular 380x40				C11 *ReH [MPa] 742	C12 Rm [MPa] 829	C13 A5 [%] 21.0			
Bend test		DSG414		Top end		Transvers		Delivery condition		Rectangular 300x25				C50 The test is satisfactory					

No yield point extension Ae detected. Measured value for *ReH/ReL replaced by *Rp02
Production time: 2018-01-02

This certificate is produced with EDP and valid without signature Material Testing/ H Leu / M Eriksson / V Esbelani	Z02	It is hereby certified that the material described above complies with the requirements of the order.	Z01		A22		A04	 STRENX™ PERFORMANCE STEEL www.strenx.com
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