


Tilaja Purchaser FEON OY PL 27 01301 VANTAA FINLAND	Tilaus nro Order No. 1114849	Tilausvahvistus Order Confirmation 23212	Vastaanottaja Consignee FEON OY HAKINTIE 6 01380 VANTAA FINLAND	Asiakkaan merkki Shipping mark 1114849	Päivämäärä Date 16.04.2021	Valmistajan merkki Mark of the Manufacturer	
--	---------------------------------	---	--	---	-------------------------------	--	---

Todistus Certificate 31	Laivaus Shipping	Laatumerkintä Quality Marking S355ML	Tarkastajan leima Stamp of Inspector	
Toimitustyyppi Delivery type PART DELIVERY	Sulatus nro levy nro Cast No. Plate No. XXXXX XXX XX XXX	Toleranssit Tolerances SSAB TOLERANCE EN 10029, THICKN. 3/4 CL A	Vastaanottajan leima Stamp of Surveyor	Muut leimaukset Other Stamps

Tuote Product  
HEAVY PLATES  
Laji Grade  
S355ML EN 10025-4:2019  
Laatuselvitys Quality Specifications  
WELDABLE FINE GRAIN STRUCTURAL STEEL

Tekniset vaatimukset ja/tai viralliset määräykset Technical terms of Delivery and/or Official Regulations

Positio Item	Mitat mm Dimensions mm	Merkki Marke	Kpl Pcs	Paino kg Weight kg	Sulatus levy nro Cast plate No	SP nro SP No	UT	MT
-----------------	---------------------------	-----------------	------------	-----------------------	-----------------------------------	-----------------	----	----

**HOT ROLLED STEEL PLATES  
IN BUNDLES**

CEV MAX 0.38%, IMPACT TEST AT -50 C MIN 40J, SI MAX 0.03%  
SURFACE CONDITION EN 10 163-2:2005 CLASS A3

010	25.00 X 1500	X	3000	1114849	XR355258	10	9000	70236	012	012
010	25.00 X 1500	X	3000			10	9000	71156	041	041

\*\*\* 20 18000

**Raah Steel Works**

Täten todistamme, että toimitus on tilausvahvistuksen mukainen.  
We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

Testaus ja tarkastus Testing and Inspection



**MINNA VALKAMA**

Valtuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: SSAB Europe Oy  
Kotipaikka Registered Office: HÄMEENLINNA

Osoite Address: PL 93, P.O Box 93  
FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911  
+358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser FEON OY PL 27 01301 VANTAA FINLAND Tilaus nro Order No. 1114849	Tilausvahvistus Order Confirmation 23212	Vastaanottaja Consignee FEON OY HAKINTIE 6 01380 VANTAA FINLAND Asiakkaan merkki Shipping mark 1114849	Päivämäärä Date 16.04.2021	TML
---	---	---	-------------------------------	-----

Laji Grade S355ML	Lisävaatimukset Additional requirements	Jatkuvavalettua happiterästä Oxygen steel, continuous casting
Laatuselvitys Quality Specifications <b>WELDABLE FINE GRAIN STRUCTURAL STEEL</b>		Fully killed, Fine grain practiced

Pos. Item	Sulatus, k.erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test													Taivutuskoe Bend test		Huom Nb	Päästö Tempering °C								
			K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	RM MPa 2	3	A % 50	80	200	RE / RM	RM * A5	1			RAZ % 2	3	Keskiarvo Average	K5	D = X t			
010	70236 012	TM	51							430	502											26			51	1.0	
010	71156 041	TM	51							459	511											25			51	1.0	

K2: 51=BOTTOM,TRANSV.  
K5: 51=BENDING TEST

TM=THERMOMECH. TREATED

Pos. Item	Sulatus k.erä nro Cast. test No	Iskukoe Impact test				FA %			LE (mm)			Erikoiskokeet Special tests				Huom Nb	Päästö Tempering °C		
		K3	°C	1	2	3	Keskiarvo Average	W (mm)	1	2	3	Keskiarvo Average	K4	°C	1			2	Keskiarvo Average
010	70236 012	151	-050	255	198	207	220												
010	71156 041	151	-050	256	241	283	260												

K3: 151=CH-V/ISO-V(J),10X10,BOTTOM,LONGIT,KV600

### Raah Steel Works

Täten todistamme, että toimitus on tilausvahvistuksen mukainen.  
We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

Testaus ja tarkastus Testing and Inspection



#### MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: SSAB Europe Oy  
Kotipaikka Registered Office: HÄMEENLINNA

Osioite Address: PL 93, P.O Box 93  
FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911  
+358 20 5911

Y-tunnus Business ID: 2389445-7

Sulatus nro Cast No Schmelzen Nr. No de coulén № Плавки	Koe nro Test No Prüf Nr. Essai No № Пробы	Positio Item Pos. Poste Поз.	Cekv Ceq Caq Cég Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ плавки % (*=ppm)																Päivämäärä Date Datum Date Дата			
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B	16.04.2021				TML
70236		010	.36	.090	.01	1.51	.010	.004	.031	.040	.049	.001	.020	0.03	0.04	.003	.005	.0002					
71156		010	.37	.094	.02	1.54	.012	.003	.046	.046	.052	.001	.015	0.05	0.04	.004	.005	.0003					

CEQ=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

### Raahe Steel Works

Testaus ja tarkastus    Testing and Inspection    Испытание и контроль качества  
 Prüfung und Kontrolle    Essais et Contrôle

Steel manufactured and supplied by Raahe Steel Works is free from radiation.  
 Производимая на металлургическом комбинате «Raahe Steel Works» и поставляемая  
 заказчику сталь не излучают радиации.

### MINNA VALKAMA

Valtuutettu tarkastaja    Authorized inspection representative    Уполномоченный инспектор  
 Sachverständiger    Inspecteur autorisé

Yhtiön nimi Company Name:    SSAB Europe Oy    Osoite Address:    PL 93, P.O Box 93  
 Kotipaikka Registered Office:    HÄMEENLINNA    FIN-92101 RAAHE, FINLAND

Puhelin Telephone:    020 5911  
 +358 20 5911

Y-tunnus Business ID:    2389445-7

**Declaration of performance**  
(according to EU No 305/2011 and 574/2014)

DoP id. P023\_02

Hot rolled Plate product S355ML / 1.8834  
according to  
EN 10025-4:2019  
for bolted, welded and riveted structures.

SSAB  
P.O Box 70  
101 20 Stockholm  
SWEDEN  
T: +46 8 45 45 700  
Email: info@ssab.com  
Website: ssab.com

TÜV NORD Systems GmbH & Co. KG  
Grosse Bahnstrasse 31  
D-22525 Hamburg  
Germany  
T: +49 40 8557 2368

Assessment system and verification for constancy  
of performance  
**System 2+**

The performance of the product identified in this document is  
in conformity with the set of declared performance. This declaration of performance  
is issued in accordance with Regulations (EU) No 305/2011 and 574/2014,  
under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Jarkko Matkala  
Vice President, hot rolled plate and strip products,  
SSAB Europe Oy, Raahе Steelworks  
Raahе 2015-06-09



05

0045-CPR-0573

EN 10025-1:2004

Dop id: P023_02 EN 10025-4:2019		Performance		Harmonized technical specification
S355ML	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	
	$3 \leq t < 5$	-0,3	+0,7	
	$5 \leq t < 8$	-0,4	+0,8	
	$8 \leq t < 15$	-0,5	+0,9	
	$15 \leq t < 25$	-0,6	+1,0	
	$25 \leq t < 40$	-0,7	+1,3	
	$40 \leq t < 80$	-0,9	+1,7	
	$80 \leq t < 150$	-1,1	+2,1	
$150 \leq t < 250$	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
		Lower	Upper	
	$t < 40$	0	+20	
	$40 \leq t < 150$	0	+25	
	$150 \leq t \leq 400$	0	+30	
Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order				
Length	Nominal length	Tolerances		
	$l$	Lower	Upper	
	$l < 4000$	0	+20	
	$4000 \leq l < 6000$	0	+30	
	$6000 \leq l < 8000$	0	+40	
	$8000 \leq l < 10\ 000$	0	+50	
	$10\ 000 \leq l < 15\ 000$	0	+75	
	$15\ 000 \leq l \leq 20\ 000$	0	+100	
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness $t$	Measuring length		
	$t$	1000	2000	
	$3 \leq t < 5$	9	14	
	$5 \leq t < 8$	8	12	
	$8 \leq t < 15$	7	11	
	$15 \leq t < 25$	7	10	
	$25 \leq t < 40$	6	9	
	$40 \leq t < 250$	5	8	

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	$\leq 16$	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	325	
	$> 100 \leq 120$	320	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	$\leq 40$	470	630
	$> 40 \leq 63$	450	610
	$> 63 \leq 80$	440	600
	$> 80 \leq 100$	440	600
	$> 100 \leq 120$	430	590
Elongation	thickness mm	min %	
		22	
Impact strength	thickness mm	temperature, °C	min. energy, J
		-50	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 16$	0.39	
	$> 16 \leq 40$	0.39	
	$> 40 \leq 63$	0.40	
	$> 63 \leq 120$	0.45	
	$> 120 \leq 150$	0.45	
Durability (chemical composition)	element	Value	
	C, max	0.14	
	Si, max	0.50	
	Mn, max	1.60	
	P, max	0.025	
	S, max	0.020	
	Nb, max	0.05	
	V, max	0.10	
	Al, min	0.02	
	Ti, max	0.05	
	Cr, max	0.30	
	Ni, max	0.50	
	Mo, max	0.10	
	Cu, max	0.55	
N, max	0.015		