

EN 10 204-3.1 (2004)

A 12335 -002

21.04.2019

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND

Tilaus nro Order No.
4501114886

Tilausvahvistus Order Confirmation
12335

Vastaanottaja Consignee
TIBNOR OY
TUOTTAJANTIE 49
60100 SEINÄJOKI FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
23.04.2019

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laivaus Shipping

Laatumerkintä Quality Marking
S420ML

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
REST DELIVERY

Sulatus nro levy nro Cast No. Plate No.
XXXXX XXX XX XXX

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
HEAVY PLATES
Laji Grade
S420ML EN 10025-4:2004
Laatuselvitys Quality Specifications
WELDABLE FINE GRAIN STRUCTURAL STEEL

Toleranssit Tolerances
EN 10029:2010 CLASS A

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								
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
010	15.00 X 2450 X	8450 4501114886 B001.A06448 STD	3	7452	31960 413	413		
SURFACE CONDITION EN 10 163-2:2005 CLASS A3								
030	30.00 X 2000 X	6000 4501114886 B001.A04801 STD	4	11520	35112 023	023		
		***	7	18972				

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

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

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	23.04.2019				SMO
31960		010	.21	.055	.30	0.85	.010	.003	.037	.042	.008	.003	.013	0.05	0.03	.004	.003	.0004					
35112		030	.28	.058	.30	1.23	.010	.003	.038	.041	.007	.003	.016	0.04	0.04	.004	.004	.0004					

CEQ=C+Mn/6+(Cr+M0+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 Inspector autorisé

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

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+358 20 5911

Y-tunnus Business ID: 2389445-7

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

DoP id. P025_01

Hot rolled Plate product S420ML / 1.8836
according to
EN 10025-4:2004
for bolted, welded and riveted structures.

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D-22525 Hamburg
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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: P025_01		Performance		Harmonized technical specification
S420ML	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)
	≤ 16	420	
	$> 16 \leq 40$	400	
	$> 40 \leq 63$	390	
	$> 63 \leq 80$	380	
	$> 80 \leq 100$	370	
	$> 100 \leq 120$	365	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 40	520	680
	$> 40 \leq 63$	500	660
	$> 63 \leq 80$	480	640
	$> 80 \leq 100$	470	630
	$> 100 \leq 120$	460	620
Elongation	thickness mm	min %	
		19	
Impact strength	thickness mm	temperature, °C	min. energy, J
		-50	27
Weldability CEV	thickness mm	CEV max %	
	≤ 16	0.43	
	$> 16 \leq 40$	0.45	
	$> 40 \leq 63$	0.46	
	$> 63 \leq 120$	0.47	
	$> 120 \leq 150$	0.47	
Durability (chemical composition)	element	Value	
	C, max	0.16	
	Si, max	0.50	
	Mn, max	1.70	
	P, max	0.025	
	S, max	0.020	
	Nb, max	0.05	
	V, max	0.12	
	Al, min	0.02	
	Ti, max	0.05	
	Cr, max	0.30	
	Ni, max	0.80	
	Mo, max	0.20	
	Cu, max	0.55	
N, max	0.025		