


Tilaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND	Vastaanottaja Consignee BE GROUP OY AB VANHANRADANKATU 42 15520 LAHTI FINLAND	Päivämäärä Date 17.02.2022
Tilaus nro Order No. P095871	Tilausvahvistus Order Confirmation 79291K	Valmistajan merkki Mark of the Manufacturer
Toimitus Certificate 31	Laatumerkintä Quality Marking S235JR+AR	

Toimitustyyppi Delivery type TOTAL DELIVERY	Sulatus nro levy nro X X X X X X X	Cast No. Plate No. X X X X X X X	Tarkastajan leima Stamp of Inspector
Tuote Product CUT LENGTHS Laji Grade S235JR+AR/TEAR PLATE EN 10025-2:2019	Toleranssit Tolerances DIN 59220/00-SEL014E-79/SFS-EN10363:2016	Muut leimaukset Other Stamps	Vastaanottajan leima Stamp of Surveyor

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

Positio Item	Mitat mm Dimensions mm	Merkki Mark	Kpl Pcs	Paino kg Weight kg	Sulatus levy nro Cast plate No	SP nro SP No	UT UT	MT MT	Turvamerkki Safety mark
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H.R. TEAR PLATES IN BUNDLES CUT LENGTHS MILL EDGES
GALVANIZING CLASS 1 (SI MAX 0.03%, SI+2.5P <= 0.09%)
 001 3.00 X 1500 X 3000

173	20035	10422	021	021
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*** 173 20035

Raahe Steel Works
 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: HAMEENLINNA

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

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.



ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3

79291K-001

16.02.2022

Päivämäärä Date Datum Date Дата
 17.02.2022 MHR

Sulatus nro Cast No Schmelzen Nr. № Плавки	Koe nro Test No Prüf Nr. Essai No № Проб	Positio Item Pos. Poste Поз.	Cekki Ceq Ceq Ceq Cekki	Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %	C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B	
10422		001	.20		.067	.01	0.75	.007	.004	.039	.000	.008	.016	.011	0.04	0.04	.002	.003	.0001	

(* -ppm)

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

Raahе Steel Works

Testaus ja tarkastus
 Prüfung und Kontrolle

Испытание и контроль качества

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

Minna Valkama

MINNA VALKAMA

Valtuutettu tarkastaja
 Sachverständiger

Ullommochenen inspektor

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

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

DoP id. S002_02

Hot rolled strip product S235JR / 1.0038
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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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

CE

05

0045-CPR-0573
EN 10025-1:2004

Dop id: S002_02 EN 10025-2:2019	Performance				Harmonized technical specification	
5235JR	Tolerances for nominal width w					
Tolerances on dimensions and shape. Thickness	Thickness				EN 10025-1:2004	
	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800		w > 1800
	t ≤ 2,00	± 0,17	± 0,19	± 0,21		
	2,00 < t ≤ 2,50	± 0,18	± 0,21	± 0,23		± 0,25
	2,50 < t ≤ 3,00	± 0,20	± 0,22	± 0,24		± 0,26
	3,00 < t ≤ 4,00	± 0,22	± 0,24	± 0,26		± 0,27
	4,00 < t ≤ 5,00	± 0,24	± 0,26	± 0,28		± 0,29
	5,00 < t ≤ 6,00	± 0,26	± 0,28	± 0,29		± 0,31
	6,00 < t ≤ 8,00	± 0,29	± 0,30	± 0,31		± 0,35
	8,00 < t ≤ 10,00	± 0,32	± 0,33	± 0,34		± 0,40
	10,00 < t ≤ 12,50	± 0,35	± 0,36	± 0,37		± 0,43
	12,50 < t ≤ 15,00	± 0,37	± 0,38	± 0,40		± 0,46
	15,00 < t ≤ 25,00	± 0,40	± 0,42	± 0,45		± 0,50

Width	Tolerances			
	Mill edges		Trimmed edges*	
Nominal width w	Lower	Upper	Lower	Upper
w ≤ 1 200	0	+20	0	+3
1 200 < w ≤ 1 850	0	+20	0	+5
w > 1 850	0	+25	0	+6

* Tolerances for trimmed edges apply to products with nominal thickness t ≤ 10 mm; for nominal thickness t > 10 mm the upper tolerances shall be agreed at the time of enquiry and order.

Length	Tolerances			
	Lower		Upper	
Nominal length l	0		+10	
l < 2 000	0		+10	
2 000 ≤ l < 8 000	0		+0,005 x l	
l ≥ 8 000	0		+40	

Flatness	Tolerances			
	w ≤ 1 200		1 200 < w ≤ 1 500	
Nominal thickness t	18		20	
t ≤ 2,00	15		18	
2,00 < t ≤ 25	15		18	

Yield strength	min (Mpa)		max (Mpa)	
	thickness mm	235		-
≤ 16	235		-	
> 16 ≤ 25	225		-	

Tensile strength	min (Mpa)		max (Mpa)	
	thickness mm	360		510
< 3	360		510	
≥ 3 ≤ 25	360		510	

Elongation	thickness mm	min %		
		> 1.5 ≤ 2	17	
		> 2 ≤ 2.5	18	
		> 2.5 < 3	19	
> 3 ≤ 25	24			

Impact strength	temperature, °C		min. energy, J
	thickness mm	20	
≤ 25	20		27

Weldability CEV	CEV max %	
	thickness mm	0.35
≤ 25	0.35	

Durability (chemical composition)	element	max %		
		C	0.17	
		Mn	1.40	
		P	0.035	
		S	0.035	
		N	0.012	
		Cu	0.55	
Ni	0.42			
Cr	0.29			
Mo	0.11			