

EN 10 204-3.1 (2004)

Tilaja Purchaser TIBNOR OY NIINISTÖNKATU 7 05800 HYVINKÄÄ FINLAND	Tilaus nro Order No. 4501335873	Tilausvahvistus Order Confirmation 79619K	Vastaanottaja Consignee TIBNOR OY NIINISTÖNKATU 7 05800 HYVINKÄÄ FINLAND	Asiakkaan merkki Shipping mark	Päivämäärä Date 21.02.2022	Valmistajan merkki Mark of the Manufacturer	
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Todistus Certificate 31	Laatumerkintä Quality Marking S355K2 N S355J2 N	Tarkastajan leima Stamp of Inspector <i>Mxx</i>
Toimitustyyppi Delivery type PART DELIVERY	Sulatus nro levy nro Cast No. Plate No. XXXXX XXX XX XX	Vastaanottajan leima Stamp of Surveyor
Tuote Product CUT LENGTHS Laji Grade MULTISTEEL/S355K2+N EN 10025-2:2019 Laatuselvitys Quality Specifications STRUCTURAL STEEL,MEETS REQ. OF EN 10025-2 S355K2/J2	Toleranssit Tolerances EN 10051:2010	Muut leimaukset Other Stamps

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	Turvamerkki Safetymark
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HOT ROLLED STEEL IN BUNDLES CUT LENGTHS MILL EDGES

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.;CEV MAX 0,43%,MEETS REQ.OF EN10025-2 S355J0

060	4.00 X 1500	X	3000	4501335873	A005.A01592	STD	72	10165	86829	059	059
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* 72 10165

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

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Tilaus nro Order No.
4501335873

Tilausvahvistus Order Confirmation
79619K

Vastaanottaja Consignee
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
21.02.2022
Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
DX355MCD S355MC

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
PART DELIVERY

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

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
CUT LENGTHS
Laji Grade
SSAB DOMEX 355MC D/S355MC EN10149-2:2013
Laatuselvitys Quality Specifications
HSF FINE GRAIN STEEL

Toleranssit Tolerances
SSAB TOLERANCE EN10051, THICKN. 2/3 CAT B

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	Turvamerkki Safetymark
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HOT ROLLED STEEL IN BUNDLES CUT LENGTHS MILL EDGES
030 6.00 X 1500 X 3000 4501335873 A005.A02800 STD

56 11885 10634 031 031

* 56 11885
** 128 22050
*** 128 22050

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Vastaanottaja Consignee
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
21.02.2022 AET

Valmistajan merkki
Mark of the Manufacturer



Laji Grade
SSAB DOMEX 355MC D/S355MC

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting

Laatuselvitys Quality Specifications
HSF FINE GRAIN STEEL

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		
030	10634 031	TM	32		411								485		31					32	0.5		

K2: 32=CENTRE, LONGITUDINAL
K5: 32=120 MM WIDE BEND TEST

TM=THERMOMECH. TREATED

Pos. Item	Sulatus k.erä nro Cast. test No	Iskukoe Impact test			FA %			LE (mm)			*Specimen Unbroken			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					
030	10634 031	133	-020	116	120	138	125															

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

K3: 133=CH-V/ISO-V(J),5X10,CENTRE,LONGIT,KV600

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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	CU	CR	NI	MO	21.02.2022	AET	
86829		060	.41	.150	.20	1.43	.009	.010	.038	.017	.004	.022	0.05	0.05	.005			

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

Raah Steel Works

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

Steel manufactured and supplied by Raah Steel Works is free from radiation.
Производимая на металлургическом комбинате «Raah 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

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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	21.02.2022	AET
10634		030	.19	.056	.01	0.71	.009	.004	.036	.028	.005	.001		

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 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

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. S011_02

Hot rolled strip product S355K2 / 1.0596
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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TÜV NORD Systems Gmbh & Co. KG
Grosse Bahnstrasse 31
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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, Raahe Steelworks
Raahe 2015-06-09



05

0045-CPR-0573
EN 10025-1:2004

Dop id: S011_02 EN 10025-2:2019		Performance				Harmonized technical specification	
S355K2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
		2,50 < t ≤ 3,00	± 0,23	± 0,25	± 0,28		± 0,30
		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	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	Nominal length	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	40
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		

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

DoP id. S010_02

Hot rolled strip product S355J2 / 1.0577
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+

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Signed for and on behalf of the manufacturer by:



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



05

0045-CPR-0573
EN 10025-1:2004

Dop id: S010_02 EN 10025-2:2019		Performance				Harmonized technical specification	
S355J2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
		2,50 < t ≤ 3,00	± 0,23	± 0,25	± 0,28		± 0,30
		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	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	Nominal length	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		