


Tilaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND	Päivämäärä Date 11.10.2022
Tilaus nro Order No. P101021	Tilauksen vahvistus Order Confirmation 13710	Valmistajan merkki Mark of the Manufacturer
Toimitus Certificate 31	Laatumerkintä Quality Marking MULTISTEEL SN	

Toimitustyyppi Delivery type PART DELIVERY	Sulatus nro levy nro Cast No. Plate No. X X X X X X X X X X X X X X X X	Tarkastajan leima Stamp of Inspector Mxx
Tuote Product HEAVY PLATES	Toleranssit Tolerances SSABEN 10029:2010 THICK. 3/4 CLASS A	Vastaanottajan leima Stamp of Surveyor
Laji Grade SSAB MULTISTEEL SN		Muut leimaukset Other Stamps

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
HOT ROLLED STEEL PLATES									
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
FLATNESS MAX 3MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
003	15.00 X 2000 X	6000	3	4320	22511	042	042		
003	15.00 X 2000 X	6000	4	5760	22939	049	049		
			***	7	10080				

STEEL FOR GENERAL STRUCTURAL PURPOSES

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection



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.

Tilaaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P101021

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P101021

Päivämäärä Date
11.10.2022

Valmistajan merkki
Mark of the Manufacturer



Laji Grade
SSAB MULTISTEEL SN

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Laatuseilytykset Quality Specifications STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test		RP02 MPa	RT05 MPa	REL MPa	REH MPa	RM _{0.2} MPa	RM _{0.01} MPa	A %	RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C
			K2	°C										1	2	3			
003	22511	042	NR	11					436	538	27			1	2	3			
003	22939	049	NR	11					455	562	24			1	2	3			

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)	FA %	LE (mm)			*Specimen Unbroken			Erikoiskokeet Special tests			Keskiarvo Average	Huom Nb	Päästö Tempering °C	
							1	2	3	1	2	3	K4	°C	1				2
003	22511	042	111	-020	252	226	211	230											
003	22939	049	111	+000	198	196	250	215											
			111	-020	149	167	148	155											
			111	+000	218	183	188	196											

FA = Sitkeämurtuman osuus Shear fracture appearance
LE = Poikittainen laajenema Lateral Expansion

K3: 111=CH-VISO-V(J),10X10.TOP, LONGIT, KV600

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

3/3
A 13710 -001 A
10.10.2022

Päivämäärä Date Datum Date
11.10.2022 JMO

Sulatus nro Cast No No de coulén	Koe nro Test No Prüf Nr. Essai No	Positio Item Pos. Poste	Cekv Ceq Ceq Ceq Cekv	Analyysi % Chemisch Zusammensetzung % Composition Chimique % (*-ppm)													
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N
22511	003	.40	.156	.20	1.40	.010	.003	.032	.037	.007	.002	.015	0.05	0.05	.004	.003	.0003
22939	003	.40	.151	.20	1.39	.016	.004	.041	.037	.011	.003	.017	0.05	0.04	.003	.004	.0000

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

Raahe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle

Steel manufactured and supplied by Raahe Steel Works is free from radiation.

Minna

MINNA VALKAMA

Vaihtoehtu tarkastaja
Sachverständiger
Authorized inspection representative
Inspector autorisé

Yrityksen nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: HAMMILLINNA

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 BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P101021	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND Asiakkaan merkki Shipping mark P101021	Päivämäärä Date 11.10.2022
Tilauksen vahvistus Order Confirmation 13710	Laatumerkintä Quality Marking S355K2 N S355J2 N S355J0 N S355JR N Sulatus nro levy nro Cast No. Plate No. X X X X X X X X X X X X X X X X	Valmistajan merkki Mark of the Manufacturer



Tuotteen Certificate 31	Tarkastajan leima Stamp of Inspector Mxx
Toimitustyyppi Delivery type PART DELIVERY	Vastaanottajan leima Stamp of Surveyor
Tuote Product HEAVY PLATES	Muut leimaukset Other Stamps

Toleranssit Tolerances
SSAB/EN 10029:2010 THICK. 3/4 CLASS A

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
--------------	------------------------	-------------	---------	--------------------	--------------------------------	--------------	-------	-------	-------------------------

HOT ROLLED STEEL PLATES									
FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.15-0.25%									
FLATNESS MAX 3MM/M. .SURFACE CONDITION EN 10 163-2:2005 CLASS B3									
003	15.00 X 2000 X	6000	2100144135	3	4320	22511	042	042	
003	15.00 X 2000 X	6000		4	5760	22939	049	049	

*** 7 10080

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

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

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.

Tilaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P101021

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P101021

Päivämäärä Date
11.10.2022

Valmistajan merkki
Mark of the Manufacturer



Laji Grade
S355K2/J2/J0/JR+N

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Laatuseilytykset Quality Specifications STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test		RP02 MPa	RT05 MPa	REL MPa	REH MPa	RM MPa	A %	RE / RM	RM * A5	RAZ %			Keskianvo Average	Huom Nb	Päästö Tempering °C
			K2	°C									1	2	3			
003	22511	042	NR	11				436	538	27			1	2	3			
003	22939	049	NR	11				455	562	24			1	2	3			

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)	FA %	LE (mm)			*Specimen Unbroken			Erikoiskokeet Special tests			Huom Nb	Päästö Tempering °C	
							1	2	3	Keskianvo Average	K4	°C	1	2	3			Keskianvo Average
003	22511	042	111	-020	252	226	211	230										
003	22939	049	111	+000	198	196	250	215										
			111	-020	149	167	148	155										
			111	+000	218	183	188	196										

FA = Sitkeämurtuman osuus Shear fracture appearance
LE = Poikittainen laajenema Lateral Expansion

K3: 111=CH-V/ISO-V(J),10X10.TOP, LONGIT, KV600

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

3/3
A 13710 -001 B
10.10.2022

Päivämäärä Date Datum Date
11.10.2022 JMO

Sulatus nro Cast No No de coulée	Koe nro Test No Prüf Nr. Essai No	Positio Item Pos. Poste	Cekv Ceq Ceq Ceq Cekv	Analyysi % Chemisch Zusammensetzung % Composition Chimique % (*-ppm)														
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B
22511	003	.40	.156	.20	1.40	.010	.003	.032	.037	.037	.007	.002	.015	0.05	0.05	.004	.003	.0003
22939	003	.40	.151	.20	1.39	.016	.004	.041	.037	.037	.011	.003	.017	0.05	0.04	.003	.004	.0000

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

Raahe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle

Steel manufactured and supplied by Raahe Steel Works is free from radiation.

Minna

MINNA VALKAMA

Vaihtoehtu tarkastaja
Sachverständiger
Authorized inspection representative
Inspector autorisé

Yrityksen nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: HAMPEENLINNA

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

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

DoP id. P011_02

Hot rolled Plate product S355K2 / 1.0596
according to
EN 10025-2:2019
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

CE

05

0045-CPR-0573
EN 10025-1:2004

Dop id: P011_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355K2	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	0			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+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 <i>l</i>	Tolerances		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
$15\ 000 \leq l < 20\ 000$	+100			
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness <i>t</i>	Measuring length		
		1000	2000	
		$3 \leq t < 5$	9	
		$5 \leq t < 8$	8	
		$8 \leq t < 15$	7	
		$15 \leq t < 25$	7	
		$25 \leq t < 40$	6	
$40 \leq t < 250$	5			

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
$> 150 \leq 200$	285		
$> 200 \leq 250$	275		
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
$> 150 \leq 250$	17		
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max	1,60	
	P, max	0,025	
	S, max	0,025	
	N, max	0,55	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
Mo, max	0,11		

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

DoP id. P010_02

Hot rolled Plate product S355J2 / 1.0577
according to
EN 10025-2:2019
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

CE

05

0045-CPR-0573
EN 10025-1:2004

Dop id: P010_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355J2	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	+20			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+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		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
$15\ 000 \leq l < 20\ 000$	+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)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
	thickness mm	min %	
$\geq 3 \leq 40$	20		
$> 40 \leq 63$	19		
$> 63 \leq 100$	18		
$> 100 \leq 150$	18		
$> 150 \leq 250$	17		
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	27
$> 150 \leq 250$	-20	27	
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
$> 150 \leq 250$	0,49		
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max	1,60	
	P, max	0,025	
	S, max	0,025	
	N, max	0,55	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
Mo, max	0,11		

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

DoP id. P009_02

Hot rolled Plate product S355J0 / 1.0553
according to
EN 10025-2:2019
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

CE

05

0045-CPR-0573
EN 10025-1:2004

Dop id: P009_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355J0	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	+20			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+30			
Length	Nominal length <i>l</i>	Tolerances		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
		$15\ 000 \leq l < 20\ 000$	+100	
		Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.		
		Flatness	Nominal thickness <i>t</i>	Measuring length
1000	2000			
$3 \leq t < 5$	14			
$5 \leq t < 8$	12			
$8 \leq t < 15$	11			
$15 \leq t < 25$	10			
$25 \leq t < 40$	9			
$40 \leq t < 250$	5	8		

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
	$> 200 \leq 250$	275	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	max %
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	0	27
	$> 150 \leq 250$	0	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	≤ 30	> 30
	P, max	0,20	0,22
	Si, max		0,55
	Mn, max		1,60
	P, max	0,030	
	S, max	0,030	
	N, max	0,012	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

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

DoP id. P008_02

Hot rolled Plate product S355JR / 1.0045
according to
EN 10025-2:2019
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

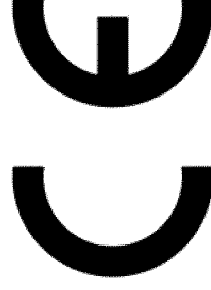
System 2+

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: P008_02	EN 10025-2:2019	EN 10025-2:2019	Performance	Harmonized technical specification
S355JR	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	0			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+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		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
$15\ 000 \leq l < 20\ 000$	+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	2000	
		$3 \leq t < 5$	14	
		$5 \leq t < 8$	12	
		$8 \leq t < 15$	11	
		$15 \leq t < 25$	10	
		$25 \leq t < 40$	9	
$40 \leq t < 250$	8			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
	$> 200 \leq 250$	275	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	max %
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	20	27
	$> 150 \leq 250$	20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	0,24	
	Si, max	0,55	
	Mn, max	1,60	
	P, max	0,035	
	S, max	0,035	
	N, max	0,012	
	Cu, max	0,55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	