

EN 10 204-3.1 (2004)

Tilaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P103306

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P103306

Päivämäärä Date
13.02.2023
Valmistajan merkki
Mark of the Manufacturer



Toistuis Certificate
31

Laatumerkintä Quality Marking
MULTISTEEL SN

Tarkastajan leima
Stamp of Inspector
Vastaanottajan leima
Stamp of Surveyor
Muut leimaukset
Other Stamps

Mxx

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

Tuote Product

Toleranssit Tolerances

SSABEN 10029:2010 THICK. 3/4 CLASS A

Tekniset vaatimukset jãrjeltä viralliset määrãyksset Technical terms of Delivery and/or Official Regulations

HEAVY PLATES
Laji Grade
SSAB MULTISTEEL SN
Laatuselitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

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									
001	20.00 X 2000	X	6000	2100144315	4	7680	28167	033	033
001	20.00 X 2000	X	6000		4	7680	28167	031	051
001	20.00 X 2000	X	6000		4	7680	28167	032	051
001	20.00 X 2000	X	6000		4	7680	28167	051	051
001	20.00 X 2000	X	6000		3	5760	28168	051	051
001	20.00 X 2000	X	6000		4	7680	28168	053	051

23

44160

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

Minna

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative
Yhtiön nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: HAMEENLINNA

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

Osoite Address: PL 93, P.O.Box 93
FI-32101 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.
P103306

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P103306

Päivämäärä Date
13.02.2023
Valmistajan merkki
Mark of the Manufacturer



Tilausvahvistus Order Confirmation
15589

Lisävaatimukset Additional requirements

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

SSAB MULTISTEEL SN Laatuselvitys 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	1	RM _{0.2} MPa	2	3	A %	50	80	200	RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C	
			K2	°C															1	2	3				
001	28167	033	NR	11				422		530															
001	28167	051	NR	11				423		531															
001	28168	051	NR	11				415		531															

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	Keskianvo Average			W (mm)	FA %	1	2	3	Keskianvo Average	LE (mm)	*Specimen Unbroken			Erikoiskokeet Special tests	Huom Nb	Päästö Tempering °C							
					1	2	3								K4	°C	1				2						
001	28167	033	111	-020	269	217	183	223																			
			111	+000	274	218	254	249																			
001	28167	051	111	-020	274	230	255	253																			
			111	+000	257	282	267	269																			
001	28168	051	111	-020	198	225	213	212																			
			111	+000	215	228	225	223																			

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

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

Raabe 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
FI-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.

Päivämäärä Date Datum Date
13.02.2023

AMT

Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*-ppm)

Sulatus nro Cast No Schmelzen Nr. No de coulée	Koe nro Test No Prüf Nr. Essai No	Positio Item Pos. Poste	Cekv Ceq Ceq Ceq Cekv	C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B
28167	001	.39	.146	.20	1.39	.013	.003	.033	.033	.033	.011	.002	.012	0.04	0.05	.003	.004	.0003
28168	001	.41	.158	.20	1.41	.012	.004	.031	.036	.036	.011	.003	.011	0.04	0.04	.003	.004	.0002

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

Raabe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle

Essais et Contrôle

MINNA VALKAMA

Valtuutettu tarkastaja
SachverständigerAuthorized inspection representative
Inspector autorisé

Yhtiön nimi Company Name: SSAB Europe Oy

Kotipaikka Registered Office: HAMPEENLINNA

Osoite Address: PL 93, P.O. Box 99

FI-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

SSAB Europe Oy, Raabe Steel Works testing laboratories T002 and T010 are accredited
by the FINAS accreditation service, accreditation requirement SFS-EN ISO/IEC 17025.

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

EN 10 204-3.1 (2004)

Tilaaaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P103306	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND Asiakkaan merkki Shipping mark P103306	Päivämäärä Date 13.02.2023 Valmistajan merkki Mark of the Manufacturer
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Todistus Certificate 31	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	Tarkastajan leima Stamp of Inspector Vastaanottajan leima Stamp of Surveyor Muut leimaukset Other Stamps
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Tuote Product
HEAVY PLATES
Laji Grade
S355K2/J2/J0/JR+N EN 10025-2:2019
Laatuselvitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

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

Tekniset vaatimukset/järjät 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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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									
001	20.00 X 2000	X	6000	2100144315					
001	20.00 X 2000	X	6000		7680	28167	033	033	
001	20.00 X 2000	X	6000		7680	28167	031	051	
001	20.00 X 2000	X	6000		7680	28167	032	051	
001	20.00 X 2000	X	6000		7680	28167	051	051	
001	20.00 X 2000	X	6000		5760	28168	051	051	
001	20.00 X 2000	X	6000		7680	28168	053	051	

*** 23 44160

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

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Y-tunnus Business ID: 2389445-7

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BE GROUP OY AB
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15101 LAHTI FINLAND
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BE GROUP OY AB
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20240 TURKU FINLAND
Asiakkaan merkki Shipping mark
P103306

Päivämäärä Date
13.02.2023

Valmistajan merkki
Mark of the Manufacturer



Tilausvahvistus Order Confirmation
15589

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

Laji Grade
S355K2/J2/J0/JR+N

Laatuseilytykset Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test	K2			K3	Iskukoe Impact test	°C			K4	K5	D = X t	Huom Nb	Päästö Tempering °C			
				RP02 MPa	REL MPa	REH MPa			1	2	3						1	2	3
001	28167	033	NR	11	422	530	27	27	50	80	200	RE / RM	RM * A5	RAZ %	1	2	3	Keskiarvo Average	
001	28167	051	NR	11	423	531	27	27	50	80	200	RE / RM	RM * A5	RAZ %	1	2	3	Keskiarvo Average	
001	28168	051	NR	11	415	531	25	25	50	80	200	RE / RM	RM * A5	RAZ %	1	2	3	Keskiarvo Average	

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	K3	Iskukoe Impact test	°C	K4	K5	W (mm)	FA %	LE (mm)			K4	K5	Keskiarvo Average	Huom Nb	Päästö Tempering °C
									1	2	3					
001	28167	033	111	-020	269	217	183	223	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	
001	28167	051	111	+000	274	218	254	249	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	
001	28167	051	111	-020	274	230	255	253	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	
001	28168	051	111	+000	257	282	267	269	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	
001	28168	051	111	-020	198	225	213	212	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	
001	28168	051	111	+000	215	228	225	223	1	2	3	Keskiarvo Average	K4	K5	Keskiarvo Average	

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

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

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: RAAMEENLINNA

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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
28167	001	.39	.146	.20	1.39	.013	.003	.033	.033	.033	.011	.002	.012	0.04	0.05	.003	.004	.0003
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Raahe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle

Minna

MINNA VALKAMA

Vaihtoehto tarkastaja
Sachverständiger
Authorized inspection representative
Inspector autorisé

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

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Y-tunnus Business ID: 2389445-7

SSAB Europe Oy, Raahe Steel Works testing laboratories T002 and T010 are accredited by the FINAS accreditation service, accreditation requirement SFS-EN ISO/IEC 17025.

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

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

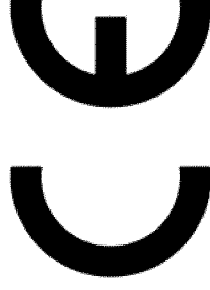
System 2+

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



05

0045-CPR-0573
EN 10025-1:2004

Dop id: P011_02	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
	$3 \leq t < 5$	-0,3	+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
Thickness	$80 \leq t < 150$	-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
	$150 \leq t < 400$	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
$15\ 000 \leq l < 20\ 000$	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	
		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	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	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	
		≤ 30	> 30
	C, max	0,20	0,22
	Si, max		0,55
	Mn, max		1,60
	P, max	0,025	
	S, max	0,025	
	N, max		
	Cu, max		0,55
	Ni, max		0,42
	Cr, max		0,29
	Mo, max		0,11

Declaration of performance
(according to UK CPR 2020 No 1359)

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
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Email: info@ssab.com
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LRQA Verification Limited (Reg. No. 4929226)
Registered office
1 Trinity Park, Bickenhill Lane
Birmingham
B37 7ESA

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

UKA**05**0038/CPR/PRJ11 100341405/ 01
EN 10025-1:2004

Dop id: P011_02	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
	$3 \leq t < 5$	-0,3	+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
Thickness	$80 \leq t < 150$	-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
	$150 \leq t < 400$	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
$15\ 000 \leq l < 20\ 000$	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	
		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	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	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.

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Email: info@ssab.com
Website: ssab.com

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Grosse Bahnstrasse 31
D-22525 Hamburg
Germany
T: +49 40 8557 2368

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, 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			
$t < 40$	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)	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 %	min energy, J
	$\geq 3 \leq 40$	20	27
	$> 40 \leq 63$	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		0,42
	Ni, max		0,29
	Cr, max		0,11

Declaration of performance
(according to UK CPR 2020 No 1359)

DoP id. P010_02

Hot rolled Plate 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+

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

UKA

05

0038/CPR/PRJ11 100341405/ 01
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	
	$3 \leq t < 5$	-0,3	+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	
$t < 40$		Lower	Upper	
$40 \leq t < 150$		0	+2,5	
$150 \leq t < 400$		0	+3,0	
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	
$15\ 000 \leq l < 20\ 000$	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)	
	≤ 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	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.

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Assessment system and verification for constancy
of performance
System 2+

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Vice President, hot rolled plate and strip products,
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Raahе 2015-06-09

CE

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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			
$t < 40$	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	
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	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
	Si, max	0,20	0,22
	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 UK CPR 2020 No 1359)

DoP id. P009_02

Hot rolled Plate product S355J0 / 1.0553
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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in conformity with the set of declared performance. This declaration of performance
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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, Raahе Steelworks
Raahе 2015-06-09

UK CA

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0038/CPR/PRJ11 100341405/ 01
EN 10025-1:2004

Dop id: P009_02	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
	$3 \leq t < 5$	-0,3	+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
Thickness	$80 \leq t < 150$	-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
	$150 \leq t < 400$	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
$15\ 000 \leq l < 20\ 000$	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	
		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	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.

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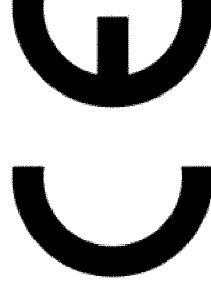
Assessment system and verification for constancy
of performance
System 2+

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Vice President, hot rolled plate and strip products,
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Raahе 2015-06-09



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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	

Declaration of performance
(according to UK CPR 2020 No 1359)

DoP id. P008_02

Hot rolled Plate product S355JR / 1.0045
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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Raahе 2015-06-09

UKA

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0038/CPR/PRJ11 100341405/ 01
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	