

Tilaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P093345

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

Päivämäärä Date
27.10.2021
Valmistajan merkki
Mark of the Manufacturer



Toistuis Certificate
31
Laivaus Shipping

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

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

Toleranssit Tolerances

SSABEN 10029/2010 THICK. 3/4 CLASS A

HEAVY PLATES
Laji Grade
SSAB MULTISTEEL SN
Laatuselvitys 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
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HOT ROLLED STEEL PLATES

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

003	8.00 X 2000 X 6000	2100143955	4	3072	82836	012	442		
003	8.00 X 2000 X 6000		4	3072	82836	013	442		
003	8.00 X 2000 X 6000		3	2304	82836	054	442		
003	8.00 X 2000 X 6000		4	3072	82836	055	442		
003	8.00 X 2000 X 6000		4	3072	82836	442	442		
003	8.00 X 2000 X 6000		4	3072	82836	443	442		
003	8.00 X 2000 X 6000		4	3072	82837	040	040		
003	8.00 X 2000 X 6000		3	2304	82837	041	040		
003	8.00 X 2000 X 6000		4	3072	82837	042	040		
003	8.00 X 2000 X 6000		4	3072	82837	043	040		

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

005	15.00 X 2000 X 6000	2100144140	4	5760	83156	012	012		
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*** 42 34944

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: HAAMEENLINNA

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.
P093345

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

Päivämäärä Date
27.10.2021

Valmistajan merkki
Mark of the Manufacturer



Tilausvahvistus Order Confirmation
26922

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

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

Pos. Item	Sulatus k. erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test		Tilajutuskoe Bend test			Huom Nb	Päästö Tempering °C									
			K2	°C	RP02 MPa	RT05 MPa	REL MPa			RFH MPa	1	2	3	Keskiarvo Average	K5	D = X t		
003	82836	442	NR	11														
003	82837	040	NR	11														
005	83156	012	NR	11														

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)			Keskianvo Average			Erikoiskokeet Special tests			Huom Nb	Päästö Tempering °C			
					1	2	3	1	2	3	K4	1	2			Keskiarvo Average		
003	82836	442	113	-020	47	60	65	57										
			113	+000	84	71	72	76										
003	82837	040	113	-020	78	76	78	77										
			113	+000	77	86	91	85										
005	83156	012	111	-020	191	191	187	190										
			111	+000	233	209	215	219										

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

K3: 113=CH-V/ISO-V(J),5X10.TOP, LONGIT;KV600 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

Syötön nimi Company Name: SSAB Europe Oy
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Y-tunnus Business ID: 2389445-7

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ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 A 26922 -003 A
 25.10.2021

Päivämäärä Date Datum Date Дата
 27.10.2021

TYPE

(* -ppm)

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

Cekiv Ceq Ccaq Ccqv Ceqv

Positio Item Pos. Poste

Koe nro Test No Prüf Nr. Essai No № Пробы

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

C SI MN P S AL NB V TI CU CR NI MO N B

003 .40 .147 .19 1.44 .009 .040 .030 .007 .002 .013 0.04 0.04 .004 .003 .0001

003 .40 .154 .21 1.41 .011 .008 .040 .034 .008 .002 .023 0.04 0.04 .003 .004 .0002

005 .40 .152 .20 1.42 .010 .006 .031 .038 .011 .002 .019 0.04 0.04 .003 .004 .0001

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

Raabe Steel Works

Testaus ja tarkastus
 Prüfung und Kontrolle

Испытание и контроль качества

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

Minna

MINNA VALKAMA

Valtuutettu tarkastaja
 Sachverständiger

Уполномоченный инспектор

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

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Y-tunnus Business ID: 2389445-7

EN 10 204-3.1 (2004)

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Tilaus nro Order No.
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BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
27.10.2021
Valmistajan merkki
Mark of the Manufacturer



Toimitus Certificate
31
Laivaus Shipping

Laatumerkintä Quality Marking

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

Mxx

Toimitustyyppi Delivery type
PART DELIVERY

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

Toleranssit Tolerances

SSABEN 10029:2010 THICK. 3/4 CLASS A

HEAVY PLATES

S355K2/J2/J0/JR+N EN 10025-2:2019

Laatuuselyitys 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
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HOT ROLLED STEEL PLATES

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

003	8.00 X 2000	X	6000	2100143955					
003	8.00 X 2000	X	6000		3072	82836	012	442	
003	8.00 X 2000	X	6000		3072	82836	013	442	
003	8.00 X 2000	X	6000		2304	82836	054	442	
003	8.00 X 2000	X	6000		3072	82836	055	442	
003	8.00 X 2000	X	6000		3072	82836	442	442	
003	8.00 X 2000	X	6000		3072	82836	443	442	
003	8.00 X 2000	X	6000		3072	82837	040	040	
003	8.00 X 2000	X	6000		2304	82837	041	040	
003	8.00 X 2000	X	6000		3072	82837	042	040	
003	8.00 X 2000	X	6000		3072	82837	043	040	

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

005 15.00 X 2000 X 6000 2100144140

*** 42 34944

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

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

Päivämäärä Date
27.10.2021

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

STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test		RT05 MPA			REL MPA	RFH 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								1	2	3			
003	82836	442	NR	11				461	577		25									
003	82837	040	NR	11				491	589		25									
005	83156	012	NR	11				448	536		28									

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	Keskianvo Average			W (mm)	FA %	*Specimen Unbroken			Erikoiskokeet Special tests			Keskiarvo Average	Huom Nb	Päästö Tempering °C
					1	2	3			1	2	3	K4	1	2			
003	82836	442	113	-020	47	60	65	57										
			113	+000	84	71	72	76										
003	82837	040	113	-020	78	76	78	77										
			113	+000	77	86	91	85										
005	83156	012	111	-020	191	191	187	190										
			111	+000	233	209	215	219										

K3: 113=CH-V/ISO-V(J),5X10.TOP, LONGIT, KV600 111=CH-V/ISO-V(J),10X10.TOP, LONGIT, KV600

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

Raahe Steel Works

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 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 A 26922 -003 B
 25.10.2021

Päivämäärä Date Datum Date Дата
 27.10.2021

TYPE

(* -ppm)

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

Cekiv Ceq Ccaq Ceg Cekv

Positio Item Pos. Poste

Koe nro Test No Prüf Nr. Essai No № Пробы

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

C SI MN P S AL NB V TI CU CR NI MO N B

003 .40 .147 .19 1.44 .009 .040 .030 .007 .002 .013 0.04 0.04 .004 .003 .0001

003 .40 .154 .21 1.41 .011 .008 .040 .034 .008 .002 .023 0.04 0.04 .003 .004 .0002

005 .40 .152 .20 1.42 .010 .006 .031 .038 .011 .002 .019 0.04 0.04 .003 .004 .0001

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

Raabe Steel Works

Testaus ja tarkastus
 Prüfung und Kontrolle

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Valtuutettu tarkastaja
 Sachverständiger

Уполномоченный инспектор

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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
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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	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)	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 %	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 %	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	Value
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max		1,60
	P, max	0,025	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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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			
$t < 40$	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	
		$l < 4000$	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 <i>t</i>	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)	
	≤ 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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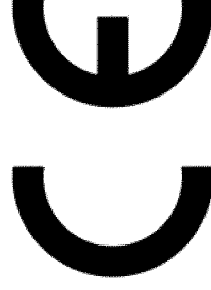
Assessment system and verification for constancy
of performance
System 2+

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: 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.

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Assessment system and verification for constancy
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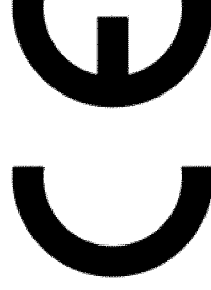
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Vice President, hot rolled plate and strip products,
SSAB Europe Oy, Raahе Steelworks
Raahе 2015-06-09



05

0045-CPPR-0573
EN 10025-1:2004

Dop id: P008_02	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
	$3 \leq t < 5$	-0,3	+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	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	