



Marcegaglia
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Stabilimento di Forlì:
via E Mattei,20 47034 Forlimpopoli, Forlì-Cesena
tel:+39.0543470111 fax:+39.0543470105

Type Inspection Certificate 3.1 EN 10204
THIS DOCUMENT WAS PRODUCED AUTOMATICALLY
AND IS VALID WITHOUT SIGNATURE

Number 10521751637
Issued On 07/10/2021

Customer BE Group Oy Ab
PL 54 (Laiturikatu 2)
15101 LAHTI FI

Code: 0000005752

Consignee BE GROUP OY AB
VANHANRADANKATU 42
15525 LAHTI FI

Delivery Nn 8355125785
Of 07/10/2021
Delivery note nr 1005012354

Quality Control 1191407060/10
Q.M.D./Q.M. S.Toscano
Plant Of Forlì

Pages 1/14

Client Order P093288
Client Date 9/1/2021

Material 59005050

Description TXT011 48,3x2x6000 TP316L LAS D

Test specification: AD2000-W2/W10 EN10217-7 TC2
Stainless steel grade: TP 316L 1.4404 X2CrNiMo17-12-2
Tolerances: ISO 1127 D3-T3

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Delivery conditions	Reworks
1	21VH001421	31608	366	61	795	W2	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Mo (%)	Ni (%)
21VH001421	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	16.5	2	10
								18.5	2.5	13

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21VH001421	TUBE	375	415	607	47.8
21VH001421	TUBE	374	414	607	48.4

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

REMARKS:
ORDINE CLIENTES \$DATA\$ SORAS

Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_ NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4404 # TP 316LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHASAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2/W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETERS FROM 8.00 TO 283.00 MM. EHEDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

ACCORDING TO TUV AD2000-MERKBLATT W017RD 00; DIRECTIVE 2014/68/EU (PED); CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V.1.

happens-in-compliance-to-AD-2000-Merkblatt-W2-paragraph-4.2.2-in-accordance-to-TUV-SUDEUTSCHLAND.





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Type Inspection Certificate 3.1 EN 10204
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Number 10521751637
Issued On 07/10/2021
WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Code: 0000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn Of Delivery note nr 8355125785 07/10/2021 1005012354	Quality Control Q.M.D./Q.M. S. Toscano Plant Of Forlì	Pages 2/14
Material 59005047	Test specification: AD2000-W2/W10 EN10217-7 TC2 Stainless steel grade: TP 316L 1.4404 X2CrNiMo17-12-2 Tolerances: ISO 1127 D3-T3				
Description TXT011 42,4x2x6000 TP316L LAS D	Welding process LASER WELDING				
Order Nr 1191407060/50	Client Order P093288				Client Date 9/1/2021
Part Number					

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Delivery conditions	Reworks
1	20RA006680	Y200207A07	366	61	670	W2	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Mo (%)	Ni (%)
20RA006680	RAW MATERIAL	.003	1	2	0.045	0.015	0.11	18.5	2.5	13
		.021	.460	1.390	.0230	.0020	.0360	16.760	2.0320	10.020

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20RA006680	TUBE	389	428	632	45.9
20RA006680	TUBE	387	428	631	46.3

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHASAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETERS FROM 8.00 TO 283.00 MM. EHDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.


NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4404 # TP 316LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

ORDINE CLIENTES \$DATA\$ \$ORAS\$

Remarks:
A counter-sign was give up with script of TUV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
- happens in compliance to AD 2000 Merkblatt W2-paragraph 6.2.2 in accordance to TUV-SÜDDEUTSCHLAND.
ACCORDING TO TUV AD2000-MERKBLATT W07TRD 00: DIRECTIVE 2014/68/EU (PED) - CHEMICAL COMPOSITION TO EN10088:
TUBES TO EN 10217-7 TC2: WELD FACTOR V.1.





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07/10/2021

WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Code: 0000005752

Consignee
BE GROUP OY AB
VANHANRADANKATU 42
15101 LAHTI FI

Delivery Nn 8355125785
Of 07/10/2021
Delivery note nr 1005012354

Quality Control
Q.M.D./Q.M. S.Toscano
Plant Of Forlì

Pages 3/14

Material
59005739
Description
TXT011 60,3x1,6x6000 TP316L LAS D

Order Nr
1191407060/80
Part Number

Client Order
P093288

Client Date
9/1/2021

Welding process
LASER WELDING

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Consignee	Delivery conditions	Reworks
1	21W3001731	27042	222	37	500	BE GROUP OY AB VANHANRADANKATU 42 15101 LAHTI FI	W2	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Mo (%)	Ni (%)
21W3001731	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	18.5	2.5	13

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21W3001731	TUBE	385	425	627	47.6
21W3001731	TUBE	386	426	627	46.7

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHASAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETRS FROM 8.00 TO 283.00 MM. EHDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

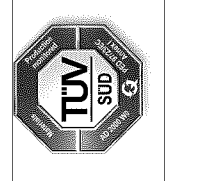
NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4404 # TP 316LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO ORDINE CLIENTES \$DATAS \$ORAS

Remarks:
A conformance was give up with script of TUV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1 certificates according to TUV AD2000-MERKBLATT W07R1D 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V.1.

Accordance to TUV AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TUV SÜDDEUTSCHLAND.



WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE



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WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Code: 0000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn Of Delivery note nr	8355125785 07/10/2021 1005012354	Quality Control Q.M.D./Q.M. S. Toscano Plant Of Forlì	Pages 4/14
Material 59005797	Test specification: AD2000-W2/W10 EN10217-7 TC2					
Description TXT011 26,9x2x6000 TP316L LAS D D4/T3	Stainless steel grade: TP 316L 1.4404 X2CrNiMo17-12-2					
Tolerances: ISO 1127 D3-T3						

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Chemical Composition (%)										Delivery conditions	Reworks		
						C	Si	Mn	P	S	N	Cr	Mo	Ni	W			Welding process	
1	21W8001555	Y210512C53-2	762	945	127	0.03	1	2	0.045	0.015	0.11	16.5	2	2.5	10	13	W2	PICKLING	Welding process LASER WELDING

Identification Nr	Chemical Type	Mechanical Properties																	
		C	Si	Mn	P	S	N	Cr	Mo	Ni	W								
21W8001555	RAW MATERIAL	.016	.341	1.035	.0227	.0044	.0473	16.985	2.0408	10.253									

Identification Nr	Type of mechanical test	Rp 0.2			Rp 1.0			Rm						
		[MPa]	%	A5	[MPa]	%	A5	[MPa]	%	A5				
21W8001555	TUBE	375	415	608	490	40	690	608	48.2					
21W8001555	TUBE	376	415	609	47.3									

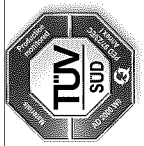
NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4404 # TP 316LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

ORDINE CLIENTES \$DATA\$ \$ORAS\$

Remarks:
A counter-sign was give up with script of TÜV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
- happens in compliance to AD 5000 Merkblatt W2-paragraph 6.2.2-in accordance to TÜV-SÜDDEUTSCHLAND.
ACCORDING TO TÜV AD2000-MERKBLATT W07TRD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088;
TUBES TO EN 10217-7 TC2; WELD FACTOR V.1.



WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE



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Customer
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PL 54 (Laiturikatu 2)
15101 LAHTI FI

Code: 0000005752

Consignee
BE GROUP OY AB
VANHANRADANKATU 42
15525 LAHTI FI

Delivery Nn
Of
Delivery note nr

8355125785
07/10/2021
1005012354

Quality Control
Q.M.D./Q.M. S. Toscano
Plant Of Forlì

Pages
5/14

Order Nr
1191407060/120
Client Order
P093288

Part Number
Client Date
9/1/2021

Material
59005053

Description
TXT011 60,3x2x6000 TP316L LAS D

Test specification: AD2000-W2/W10 EN10217-7 TC2
Stainless steel grade: TP 316L 1.4404 X2CrNiMo17-12-2
Tolerances: ISO 1127 D3-T3

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Quantity PZ	Delivery conditions	Reworks
1	21VH001839	Y210512C47-2	222	615	615	37	W2	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Mo (%)	Ni (%)
21VH001839	RAW MATERIAL	.020	.420	1.118	.0242	.0081	.0536	17.146	2.0516	10.633

Identification Nr
21VH001839

Type of mechanical test
TUBE

Rp 0.2 [MPa]
190

Rp 1.0 [MPa]
225

Rm [MPa]
490

A5 (%)
40

690

21VH001839 TUBE 382 421 620 45.9

21VH001839 TUBE 381 421 620 46.5

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

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RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Identification Nr
21VH001839

Type of mechanical test
TUBE

Rp 0.2 [MPa]
190

Rp 1.0 [MPa]
225

Rm [MPa]
490

A5 (%)
40

690

Identification Nr
21VH001839

Type of mechanical test
TUBE

Rp 0.2 [MPa]
190

Rp 1.0 [MPa]
225

Rm [MPa]
490

A5 (%)
40

690

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4404 # TP 316LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

ORDINE CLIENTES \$DATA\$ \$ORAS\$

Remarks:
A countersign was give up with script of TÜV BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
- happens in compliance to AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TÜV SÜDDEUTSCHLAND.

ACCORDING TO TÜV AD2000-MERKBLATT W07TRD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088;
TUBES TO EN 10217-7 TC2; WELD FACTOR V.1.



WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE



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Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355125785 Of 07/10/2021 Delivery note nr 1005012354	Quality Control Q.M.D./Q.M. S. Toscano Plant Of Forlì	Pages 6/14
Material 59005041	Test specification: AD2000-W2/W10 EN10217-7 TC2 Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3			
Description TXT011 33,7x2x6000 TP304L LAS D	Welding process LASER WELDING			
Order Nr 1191407060/20	Client Order P093288	Order Nr 1191407060/20	Client Order P093288	
Part Number	Client Date 9/1/2021			

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Quantity PZ	Delivery conditions	Reworks
1	21RE002740	121065	546	91	810	91	W1	PICKLING
2	21RE002745	616850	546	91	810	91		

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21RE002740	RAW MATERIAL	.003	1	2	0.045	0.015	0.11	17.5	8
21RE002745	RAW MATERIAL	.021	.439	1.137	.0221	.0103	.0551	18.216	8.038

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21RE002740	TUBE	389	428	632	46.8
21RE002740	TUBE	389	430	633	45.7
21RE002745	TUBE	388	428	630	46.7
21RE002745	TUBE	388	428	632	45.8

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM


DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking
(LGO-MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304L-HEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

ORDINE CLIENTES \$DATA\$ \$ORAS\$

Remarks:
A certificate was give up with script of TÜV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1 certificates
TUBES TO EN 10217-7 TC2: WELD FACTOR V.1.
ACCORDING TO TÜV AD2000-MERKBLATT W01TRD 000: DIRECTIVE 2014/68/EU (PED) - CHEMICAL COMPOSITION TO EN10088:
TUBES TO EN 10217-7 TC2: WELD FACTOR V.1.

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE





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Type Inspection Certificate 3.1 EN 10204
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Number 10521751637
Issued On 07/10/2021

WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355125785 Of 07/10/2021 Delivery note nr 1005012354	Quality Control Q.M.D./Q.M. S. Toscano Plant Of Forlì	Pages 7/14
Material 59005049	Test specification: AD2000-W2/W10 EN10217-7 TC2 Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3			
Description TXT011 48,3x2x6000 TP304L LAS D	Welding process LASER WELDING			
Order Nr 1191407060/30	Client Order P093288	Order Nr 1191407060/30	Client Order P093288	Part Number 9/1/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity PZZ	Quantity KG	Quantity PZ	Delivery conditions	Reworks
1	21VH000648	0540002	198	430	430	33	W1	PICKLING
2	21VH000648	0540001	168	360	360	28		

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21VH000648	RAW MATERIAL	.003	1	2	0.045	0.015	0.11	17.5	8
21VH000648	RAW MATERIAL	.028	.350	1.660	.0300	.0010	.0740	18.060	8.080
21VH000648	RAW MATERIAL	.025	.410	1.680	.0290	.0010	.0700	18.160	8.080

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21VH000648	TUBE	399	439	649	43.6
21VH000648	TUBE	398	439	648	43.2
21VH000648	TUBE	398	438	649	44.5
21VH000648	TUBE	399	439	649	43.7

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO	ORDINE CLIENTES \$DATA\$ \$ORAS\$
Remarks: A countersign was give up with script of TÜV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates - happens in compliance to AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TÜV-SÜDDEUTSCHLAND. ACCORDING TO TÜV AD2000-MERKBLATT W07/100: DIRECTIVE 2014/68/EU (PED) - CHEMICAL COMPOSITION TO EN10088: TUBES TO EN 10217-7 TC2: WELD FACTOR V.1.	



WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE



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Issued On 07/10/2021

07/10/2021

WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Code: 0000005752

Consignee
BE GROUP OY AB
VANHANRADANKATU 42
15101 LAHTI FI

Delivery Nn 8355125785
Of 07/10/2021
Delivery note nr 1005012354

Quality Control
Q.M.D./Q.M. S. Toscano
Plant Of Forlì

Pages 8/14

Material
59005049
Description
TXTO11 48,3x2x6000 TP304L LAS D

Order Nr
1191407060/30
Part Number

Client Order
P093288

Client Date
9/1/2021

Welding process
LASER WELDING

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21VH001284	Y210315C	366	750	61	W1	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21VH001284	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	17.5	8
								19.5	10

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21VH001284	TUBE	396	437	645	43.8
21VH001284	TUBE	397	437	645	44.3

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHASAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETERS FROM 8.00 TO 283.00 MM. EHEDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304LHEAT \$SCOLATAS PED 2014/68/EU \$SIGLAS \$NUMERO

Remarks:
A countersign was give up with script of TUV BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
ORDINE CLIENTES \$DATA\$ SORAS

ACCORDING TO TUV AD2000-MERKBLATT W01TRD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088;
TUBES TO EN 10217-7 TC2; WELD FACTOR V-1.





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Type Inspection Certificate 3.1 EN 10204
Number 10521751637
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Customer
BE Group Oy Ab
PL 54 (Laiturikatu 2)
15101 LAHTI FI

Code: 0000005752

Consignee
BE GROUP OY AB
VANHANRADANKATU 42
15525 LAHTI FI

Delivery Nn 8355125785
Of 07/10/2021
Delivery note nr 1005012354

Quality Control
Q.M.D./Q.M. S.Toscano
Plant Of Forlì

Pages 9/14

Material
59005062

Description
TXT011 114,3x2x6000 TP304L LAS D

Test specification: AD2000-W2/W10 EN10217-7 TC2
Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10
Tolerances: ISO 1127 D3-T3

Order Nr 1191407060/40
Client Order P093288
Part Number
Client Date 9/1/2021

Welding process
LASER WELDING

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21RK009538	0462683	114	561	19	W1	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21RK009538	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	17.5	8
								19.5	10
								18.050	8.070

Identification Nr 21RK009538

Type of mechanical test

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21RK009538	TUBE	398	439	649	43.3				
21RK009538	TUBE	399	439	649	43.5				

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHSAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETRS FROM 8.00 TO 283.00 MM. EHDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.


NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE

Marking
(LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304L-HEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO ORDINE CLIENTES \$DATA\$ \$ORAS\$

Remarks:
A countersign was give up with script of TUV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
- happens in compliance to AD 5000 Merkblatt W2-paragraph 6.2.2-in accordance to TUV-SÜDDEUTSCHLAND.
ACCORDING TO TUV AD2000-MERKBLATT W07TRD 00; DIRECTIVE 2014/68/EU (PED); CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.





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Number 10521751637
Issued On 07/10/2021

WELDING PROCESS QUALIFICATION: ALL THE LASER WELDING PROCESS ARE QUALIFIED ACCORDING EUROPEAN PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC BY THE NOTIFIED BODY N.1233 EUROPE WITH WELDING PROCEDURE QUALIFICATION WPQR N° PM0907A001 Registration no. 10M203 AND WPQR N° PM907A002 Registration no. 11M017. STILL VALID UNDER PED 2014/68/EU PER ARTICLE 48 CLAUSE 3.

Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI		Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI		Delivery Nn 8355125785 Of 07/10/2021 Delivery note nr 1005012354		Quality Control Q.M.D./Q.M. S.Toscano Plant Of Forlì		Pages 10/14				
Material 59005496		Test specification: AD2000-W2/W10 EN10217-7 TC2 Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3								Order Nr 1191407060/60 Client Order P093288		
Description TXT011 48,3x1,6x6000 TP304L LAS D		Welding process LASER WELDING		Part Number		Client Date 9/1/2021						
Item 1	Identification Nr 21VH001117	Heat 0M2M	Quantity MTL 366	Quantity KG 640	Quantity PZZ 61	Delivery conditions W2	Reworks PICKLING	WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE				
Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)			
21VH001117	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	17.5	8			
21VH001117	RAW MATERIAL	0.11	0.622	1.883	0.0320	0.0010	0.0750	18.045	8.050			
Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)							
21VH001117	TUBE	397	438	648	44.3							
21VH001117	TUBE	398	439	648	43.3							
NON DESTRUCTIVE TESTS EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM												
DESTRUCTIVE TESTS DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009 INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM												
Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304LHEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO		ACCORDING TO TUV AD2000-MERKBLATT W01TRD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.										
Remarks: A countersign was give up with script of TUV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates happens in compliance to AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TUV-SÜDDEUTSCHLAND.												





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Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI		Code: 0000005752		Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI		Delivery Nn Of Delivery note nr 8355125785 07/10/2021 1005012354		Quality Control Q.M.D./Q.M. S.Toscano Plant Of Forlì		Pages 11/14		
Material 59005059		Test specification: AD2000-W2/W10 EN10217-7 TC2 Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3										
Description TXT011 88,9x2x6000 TP304L LAS D		Quantity MTL 114		Quantity KG 462		Quantity PZZ 19		Delivery conditions W1		Reworks PICKLING		
Item 1	Identification Nr 21K5007414	Heat 0102091	C (%) 0.03	Si (%) 1	Mn (%) 2	P (%) 0.045	S (%) 0.015	N (%) 0.11	Cr (%) 17.5	Ni (%) 8	Client Order P093288 Client Date 9/1/2021	
Identification Nr 21K5007414	Chemical Type RAW MATERIAL	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462
Identification Nr 21K5007414	Type of mechanical test TUBE	Rp 0.2 [MPa] 180	Rp 1.0 [MPa] 215	Rm [MPa] 470	A5 (%) 40	Chemical Type RAW MATERIAL	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19
Identification Nr 21K5007414	Type of mechanical test TUBE	Rp 0.2 [MPa] 398	Rp 1.0 [MPa] 439	Rm [MPa] 648	A5 (%) 44.0	Chemical Type RAW MATERIAL	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19
Identification Nr 21K5007414	Type of mechanical test TUBE	Rp 0.2 [MPa] 399	Rp 1.0 [MPa] 439	Rm [MPa] 649	A5 (%) 43.1	Chemical Type RAW MATERIAL	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19	Quantity MTL 114	Quantity KG 462	Quantity PZZ 19
NON DESTRUCTIVE TESTS EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM												
DESTRUCTIVE TESTS DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009 INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM												
Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304LHEAT \$SCOLATAS PED 2014/68/EU \$SIGLAS \$NUMERO ORDINE CLIENTES \$DATAS \$ORAS												
Remarks: A countersign was give up with script of TÜV BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates happens in compliance to AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TÜV SÜDDEUTSCHLAND. ACCORDING TO TÜV AD2000-MERKBLATT W07TRD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.												

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE





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Customer BE Group Oy Ab
PL 54 (Laiturikatu 2)
15101 LAHTI FI
Code: 0000005752
Consignee BE GROUP OY AB
VANHANRADANKATU 42
15525 LAHTI FI
Quality Control Q.M.D./Q.M. S. Toscano
Plant Of Forlì
Pages 12/14
Delivery Nn 8355125785
Of 07/10/2021
Delivery note nr 1005012354

Material 59005056
Description TXT011 76,1x2x6000 TP304L LAS LD
Test specification: AD2000-W2/W10 EN10217-7 TC2
Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10
Tolerances: ISO 1127 D3-T3
Order Nr 1191407060/130
Client Order P093288
Part Number
Client Date 9/1/2021
Welding process LASER WELDING

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21RA003908	Y210404B49-4	114	384	19	Wt1b	PICKLING
2	21RA003917	Y210404B49-4	114	384	19		

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21RA003908	RAW MATERIAL	.024	.486	1.183	.0201	.0061	.0584	18.281	8.047
21RA003917	RAW MATERIAL	.024	.486	1.183	.0201	.0061	.0584	18.281	8.047

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21RA003908	TUBE	390	431	634	46.0
21RA003908	TUBE	391	431	636	45.0
21RA003917	TUBE	390	431	634	46.0
21RA003917	TUBE	391	431	636	45.0

REMARKS: MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHSAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWG ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETERS FROM 8.00 TO 283.00 MM. EHDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM
DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking (LGO-MARCEGAGLIA) \$DIAMETROS X \$ESPESORE_W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304L-HEAT \$COLATAS PED 2014/68/EU \$SIGLAS \$NUMERO
ORDINE CLIENTES \$DATAS \$ORAS

Remarks:
A countersign was give up with script of TUV/BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates
- happens in compliance to AD 5000 Merkblatt W2-paragraph 6.2.2-in accordance to TUV-SÜDDEUTSCHLAND.
ACCORDING TO TUV AD2000-MERKBLATT W07RD 00; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN10088;
TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.



WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE



Marcegaglia
40040 via Bressanini 16-Guzzato degli Ippoliti Mantova-Italy
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Type Inspection Certificate 3.1 EN 10204
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Number 10521751637
Issued On 07/10/2021

Customer BE Group Oy Ab
PL 54 (Laiturikatu 2)
15101 LAHTI FI
Code: 0000005752
Consignee BE GROUP OY AB
VANHANRADANKATU 42
15525 LAHTI FI
Quality Control Q.M.D./Q.M. S. Toscano
Plant Of Forlì
Pages 13/14

Material 59005755
Description TXT011 88,9x1,6x6000 TP304L LAS D
Test specification: AD2000-W2/W10 EN10217-7 TC2
Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10
Tolerances: ISO 1127 D3-T3
Welding process LASER WELDING
Order Nr 1191407060/140
Client Order P093288
Part Number
Client Date 9/1/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21K5007387	0540596	90	298	15	W2	PICKLING

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21K5007387	RAW MATERIAL	0.03	1	2	0.045	0.015	0.11	17.5	8
								19.5	10

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21K5007387	TUBE	398	439	649	43.6
21K5007387	TUBE	399	439	649	43.1

REMARKS: NON DESTRUCTIVE TESTS
EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
ANTIMIXING TEST: CONFORM
VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM
DESTRUCTIVE TESTS
DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Identification Nr 21K5007387
Type of mechanical test TUBE
Rp 0.2 [MPa] 398
Rp 1.0 [MPa] 439
Rm [MPa] 649
A5 (%) 43.6
Type of mechanical test TUBE
Rp 0.2 [MPa] 399
Rp 1.0 [MPa] 439
Rm [MPa] 649
A5 (%) 43.1

Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ AD2000-W2/W10 EN 10217-7 TEST CLASS 2 \$STATO DI FORNITURAS EN 1.4307 # TP 304L-HEAT \$COLATAS PED 2014/68 EU \$SIGLAS \$NUMERO ORDINE CLIENTES \$DATA\$ \$ORAS\$
REMARKS: A countersign was give up with script of TÜV BAYERN SACHSEN dated 01/02/1994, the issuing of 3 1. certificates happens in compliance to AD 5000 Merkblatt W2 paragraph 6.2.2 in accordance to TÜV SÜDDEUTSCHLAND.
ACCORDING TO TÜV AD2000-MERKBLATT W07TRD 00; DIRECTIVE 2014/68/EU (PED); CHEMICAL COMPOSITION TO EN10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.
TUV SUD logo

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE

Customer BE Group Oy Ab
 PL 54 (Laiturikatu 2)
 15101 LAHTI FI

Code: 0000005752
 Consignee BE GROUP OY AB
 VANHANRADANKATU 42
 15525 LAHTI FI

Delivery Nn 8355125785
 Of 07/10/2021
 Delivery note nr 1005012354

Quality Control 14/14
 Q.M.D./Q.M. S. Toscano
 Plant Of Forlì

Order Nr 1191407060/90
 Client Order P093288
 Part Number
 Client Date 9/1/2021

Material 59003975
 Description TXT002 168,3x2x6000 TP304L LAS LD

Test specification: EN 10217-7 TC1
 Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10
 Tolerances: ISO 1127 D3-T3

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21RK007454	0462748	54	413	9	Wt1b	PICKLING
2	21RK007455	0462748	54	413	9		

Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
21RK007454	RAW MATERIAL	.026	.310	1.790	.0290	.0010	.0700	18.080	8.000
21RK007455	RAW MATERIAL	.026	.310	1.790	.0290	.0010	.0700	18.080	8.000

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
21RK007454	TUBE	398	438	648	43.7
21RK007455	TUBE	398	438	648	43.7

MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PLANT SYSTEM CERTIFICATIONS QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO OHASAS 18001:2007 AND AN ENVIRONMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DWGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM. TUV AD2000 W2W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETRS FROM 8.00 TO 283.00 MM. EHEDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

NON DESTRUCTIVE TESTS
 EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM
 EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM
 ANTIMIXING TEST: CONFORM
 VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

DESTRUCTIVE TESTS
 DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM
 FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM
 RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM
 TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
 INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

Marking (LGO:MARCEGAGLIA) \$DIAMETROS X \$SPESSORE_NOM\$ HEAT N°\$COLATAS\$ EN 14301 / EN 14307 - TP 304 / TP 304L EN 10217-7 TC1 \$STATO DIFORNITURA\$ \$SIGLAS \$DATAS \$SORAS\$

Remarks:
 CHEMICAL COMPOSITION ACCORDING TO EN 10228-7 TUBE TO EN 10217-7 TC1 AND DIRECTIVE 2014/68/EU (PED), WELDING FACTOR V=1

WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE