

# C E R T I F I C A T E

Päiväys: 5.7.2021

Meidän tilausnumero: 0761070  
Asiakkaan tilausnumero: 6793

TAMMINIITTY OY  
ATT: AINE  
KETJUTIE 4  
FI-27710 KÖYLIÖ

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Rivi	Tuote	Kuvaus	Viite	Sulatusnumero
2	3106631660	EN 1.4301 20X1.5 HARJATTU		0460369

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Pyydetyt todistukset yllä oleville tilauksille lähetetään teille.

BE Group Oy Ab  
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FI-15101 LAHTI

Puhelinnumero: +358 3 825200  
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Type Inspection Certificate 3.1 EN 10204

THIS DOCUMENT WAS PRODUCED AUTOMATICALLY  
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Number 10521046698 Issued On 20/01/2021

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 EUROPEAN 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: 000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 1/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59005050	Test specification: AD2000-W2/W10 EN10217-7 TC2	Welding process LASER WELDING	Order Nr 1191306139/50	Client Order P087807
Description TXT011 48,3x2x6000 TP316L LAS D	Stainless steel grade: TP 316L 1.4404 X2CrNiMo17-12-2		Part Number	Client Date 1/18/2021
	Tolerances: ISO 1127 D3-T3			

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20RH002194	0536362	252	586	42	W2	PICKLING
2	20RH002194	0536967	114	264	19		

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 (%)	Mo (%)	Ni (%)
		0.03	1	2	0.045	0.015	0.11	16.5 18.5	2 2.5	10 13
20RH002194	RAW MATERIAL	.020	.330	1.080	.0300	.0010	.0460	16.750	2.0200	10.060
20RH002194	RAW MATERIAL	.016	.470	1.090	.0280	.0010	.0490	16.770	2.0600	10.140

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		190	225	490 690	40
20RH002194	TUBE	383	422	621	46.7
20RH002194	TUBE	383	424	621	46.8
20RH002194	TUBE	374	414	607	48.2
20RH002194	TUBE	375	414	608	47.1

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 DIAMETRS FROM 8.00 TO 283.00 MM. EHEGD FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

<b>NON DESTRUCTIVE TESTS</b> 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	<b>DESTRUCTIVE TESTS</b> 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
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Marking				
Remarks: A countersign was give up with script of TUV BAYERN SACHSEN dated 01/02/1994. he issuing of 3.1 certificates	ACCORDING TO TUV AD2000-MERKBLATT W0/TRD100; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN 10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.			



happens in compliance to AD 2000-Merkblatt W2-paragraph 6.2.2 in accordance to TUV-SUDEUTSCHLAND.



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Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Code: 000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 2/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59005046	Test specification: AD2000-W2/W10 EN10217-7 TC2	Welding process LASER WELDING	Order Nr 1191306139/10	Client Order P087807
Description TXT011 42,4x2x6000 TP304L LAS D	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10		Part Number	Client Date 1/18/2021
	Tolerances: ISO 1127 D3-T3			

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20RE002961	0538513	282	525	47	W1	PICKLING
2	20RE002961	0538443	84	160	14		

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 (%)
		0.03	1	2	0.045	0.015	0.11	17.5 19.5	8 10
20RE002961	RAW MATERIAL	.019	.416	1.111	.0270	.0069	.0533	18.179	8.032
20RE002961	RAW MATERIAL	.016	.334	1.038	.0219	.0118	.0472	18.066	8.017

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		180	215	470 670	40
20RE002961	TUBE	386	425	627	47.0
20RE002961	TUBE	386	426	628	46.1
20RE002961	TUBE	376	416	610	47.7
20RE002961	TUBE	377	416	610	47.3

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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
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Marking			
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Customer BE Group Oy Ab PL 54 (Laiturikatu 2) 15101 LAHTI FI	Code: 000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 3/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59005046	Test specification: AD2000-W2/W10 EN10217-7 TC2	Welding process LASER WELDING	Order Nr 1191306139/10	Client Order P087807
Description TXT011 42,4x2x6000 TP304L LAS D	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10		Part Number	Client Date 1/18/2021
	Tolerances: ISO 1127 D3-T3			

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20RE002964	0538443	366	685	61	W1	PICKLING
2	20RE002965	0538440	312	581	52		

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 (%)
		0.03	1	2	0.045	0.015	0.11	17.5 19.5	8 10
20RE002964	RAW MATERIAL	.016	.334	1.038	.0219	.0118	.0472	18.066	8.017
20RE002965	RAW MATERIAL	.014	.328	1.022	.0290	.0065	.0465	18.051	8.014

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		180	215	470 670	40
20RE002964	TUBE	376	416	610	47.7
20RE002964	TUBE	377	416	610	47.3
20RE002965	TUBE	372	411	603	48.8
20RE002965	TUBE	373	412	603	48.4


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<b>NON DESTRUCTIVE TESTS</b> 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	<b>DESTRUCTIVE TESTS</b> 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
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Marking

Remarks:  
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ACCORDING TO TUV AD2000-MERKBLATT W0/TRD100; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN 10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.



happens in compliance to AD 2000-Merkblatt W2-paragraph 6.2.2 in accordance to TUV-SUDEUTSCHLAND.



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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 8355101090 Of 20/01/2021 Delivery note nr 1005000680	Quality Control Q.M.D./Q.M. S.Toscana Plant Of Forlì	Pages 4/13
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Material 59005046	Test specification: AD2000-W2/W10 EN10217-7 TC2	Welding process LASER WELDING	Order Nr 1191306139/10	Client Order P087807
Description TXT011 42,4x2x6000 TP304L LAS D	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3		Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20RE002965	0538443	54	104	9	W1	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 (%)
20RE002965	RAW MATERIAL	.016	.334	1.038	.0219	.0118	.0472	18.066	8.017

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20RE002965	TUBE	376	416	610	47.7
20RE002965	TUBE	377	416	610	47.3

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Marking			
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Material 59005041	Test specification: AD2000-W2/W10 EN10217-7 TC2	Welding process LASER WELDING	Order Nr 1191306139/30	Client Order P087807
Description TXT011 33,7x2x6000 TP304L LAS D	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3		Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	21RE000118	Y200919F23	486	716	81	W1	PICKLING
2	21RE000118	Y201023A09-6	60	84	10		

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Identification Nr	Chemical Type	C (%)	Si (%)	Mn (%)	P (%)	S (%)	N (%)	Cr (%)	Ni (%)
		0.03	1	2	0.045	0.015	0.11	17.5 19.5	8 10
21RE000118	RAW MATERIAL	.014	.322	1.022	.0275	.0096	.0463	18.046	8.033
21RE000118	RAW MATERIAL	.020	.410	1.390	.0290	.0020	.0550	18.140	8.010

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		180	215	470 670	40
21RE000118	TUBE	375	415	607	48.7
21RE000118	TUBE	376	416	608	47.6
21RE000118	TUBE	395	436	643	44.8
21RE000118	TUBE	396	436	644	44.1

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 DIAMETRS FROM 8.00 TO 283.00 MM. EHEGD FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

<b>NON DESTRUCTIVE TESTS</b> 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	<b>DESTRUCTIVE TESTS</b> 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
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Marking			
Remarks: A countersign was give up with script of TUV BAYERN SACHSEN dated 01/02/1994. he issuing of 3.1 certificates	ACCORDING TO TUV AD2000-MERKBLATT W0/TRD100; DIRECTIVE 2014/68/EU (PED) ; CHEMICAL COMPOSITION TO EN 10088; TUBES TO EN 10217-7 TC2; WELD FACTOR V=1.		

happens in compliance to AD 2000-Merkblatt W2-paragraph 6.2.2 in accordance to TUV-SUDEUTSCHLAND.



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Type Inspection Certificate 3.1 EN 10204

THIS DOCUMENT WAS PRODUCED AUTOMATICALLY  
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Number 10521046698 Issued On 20/01/2021

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 EUOPED 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: 000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 6/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59002630	Test specification: EN10296-2	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/130	Client Order P087807
Description TXT001 20x1,5x6000 4307/304L HF Z	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3 / ASTM A554		Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20K4002235	0460369	1014	724	169		BRUSHED

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 (%)	Cr (%)	Ni (%)	N (%)
20K4002235	RAW MATERIAL	.025	.310	1.700	.0280	.0010	18.170	8.120	.0720

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20K4002235	TUBE	278	309	576	52.9

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 W2I/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 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 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 TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088 , EN 10028-7 AND EN 10296-2	



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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 EUOPED 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: 000005752	Consignee BE GROUP OY AB VANHANRADANKATU 42 15525 LAHTI FI	Delivery Nn 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 7/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59003094	Test specification: EN10296-2	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/70	Client Order P087807
Description TXT001 25x1,5x6000 4307/304L HF G3	Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: ISO 1127 D3-T3 / ASTM A554		Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20Z1003981	0457381	762	600	127		EXTERNAL TUBE SURFACE POLISHED GRIT 320

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 (%)	Cr (%)	Ni (%)	N (%)
20Z1003981	RAW MATERIAL	.029	.340	1.720	.0320	.0010	18.050	8.070	.0700

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20Z1003981	TUBE	283	312	578	52.8

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 W2I/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 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 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 TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088 , EN 10028-7 AND EN 10296-2	





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Type Inspection Certificate 3.1 EN 10204

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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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 8/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000655	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/110	Client Order P087807
Description TXQ 50X50X4X6000 4307/304L Z			Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20Y0026849	LM36172	215.2	1178	36		BRUSHED
2	20Y0026850	LM26172	215.2	1178	36		

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 (%)	Cr (%)	Ni (%)	N (%)
		0.03	1	2	0.045	0.015	17.5 19.5	8 10.5	0.11
20Y0026849	RAW MATERIAL	.022	.476	1.173	.0262	.0089	18.269	8.179	.0584
20Y0026850	RAW MATERIAL	.016	.350	1.048	.0225	.0113	18.088	8.020	.0484

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		200	240	520 700	47 50
20Y0026849	TUBE	278	308	575	47.8
20Y0026850	TUBE	264	294	566	48.8

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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. EHEGD FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

NON DESTRUCTIVE TESTS ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM	DESTRUCTIVE TESTS FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7	



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Type Inspection Certificate 3.1 EN 10204 THIS DOCUMENT WAS PRODUCED AUTOMATICALLY AND IS VALID WITHOUT SIGNATURE Number 10521046698 Issued On 20/01/2021

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 EUOPED 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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 9/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000655	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/110	Client Order P087807
Description TXQ 50X50X4X6000 4307/304L Z			Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20Y0026852	LM26172	216	1180	36		BRUSHED

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 (%)	Cr (%)	Ni (%)	N (%)
20Y0026852	RAW MATERIAL	.016	.350	1.048	.0225	.0113	18.088	8.020	.0484

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20Y0026852	TUBE	264	294	566	48.8

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM	DESTRUCTIVE TESTS FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking

Remarks:  
THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7



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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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 10/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000619	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/120	Client Order P087807
Description TXQ 40X40X2X6000 4307/304L Z			Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20K2020802	0460754	384	880	64		BRUSHED
2	20K2020803	0538396	276	633	46		

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 (%)	Cr (%)	Ni (%)	N (%)
		0.03	1	2	0.045	0.015	17.5 19.5	8 10.5	0.11
20K2020802	RAW MATERIAL	.023	.485	1.184	.0228	.0072	18.280	8.046	.0589
20K2020803	RAW MATERIAL	.029	.310	1.700	.0280	.0010	18.160	8.070	.0700

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		200	240	520 700	47 50
20K2020802	TUBE	280	310	576	47.8
20K2020803	TUBE	284	314	579	47.3

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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.

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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7	



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Type Inspection Certificate 3.1 EN 10204

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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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 11/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000619	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/120	Client Order P087807
Description TXQ 40X40X2X6000 4307/304L Z			Part Number	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20K2020803	0460754	108	243	18		BRUSHED

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 (%)	Cr (%)	Ni (%)	N (%)
20K2020803	RAW MATERIAL	.023	.485	1.184	.0228	.0072	18.280	8.046	.0589

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
20K2020803	TUBE	280	310	576	47.8

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 ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM	DESTRUCTIVE TESTS FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7	



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Type Inspection Certificate 3.1 EN 10204

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Number 10521046698 Issued On 20/01/2021

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 EUOPED 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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 12/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000549	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/90	Client Order P087807
Description TXQ 20x20x1,5x6000 4307/304L Z			Part Number KD31	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20K1007290	0460650	600	525	100		BRUSHED
2	20K1007291	0460650	306	276	51		

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 (%)	Cr (%)	Ni (%)	N (%)
		0.03	1	2	0.045	0.015	17.5 19.5	8 10.5	0.11
20K1007290	RAW MATERIAL	.022	.330	1.670	.0280	.0010	18.020	8.050	.0780
20K1007291	RAW MATERIAL	.022	.330	1.670	.0280	.0010	18.020	8.050	.0780

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		220	250	520 700	47 50
20K1007290	TUBE	283	313	579	47.5
20K1007291	TUBE	283	313	579	47.5

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 OHASAS 18001:2007 AND AN ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015. MARCEGAGLIA SPECIALTIES FORLIMPOPOLI PRODUCT CERTIFICATIONS DVGW 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 W2I/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 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 ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM	DESTRUCTIVE TESTS FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7	



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Type Inspection Certificate 3.1 EN 10204

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Number 10521046698 Issued On 20/01/2021

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 EUOPED 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 8355101090	Quality Control Q.M.D./Q.M. S.Toscana	Pages 13/13
			Of 20/01/2021	Plant Of Forlì	
			Delivery note nr 1005000680		

Material 59000549	Test specification: Stainless steel grade: TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10 Tolerances: EN10305-5 EN10219-2 ASTM A554	Welding process HIGH FREQUENCY INDUCTION WELDING	Order Nr 1191306139/90	Client Order P087807
Description TXQ 20x20x1,5x6000 4307/304L Z			Part Number KD31	Client Date 1/18/2021

Item	Identification Nr	Heat	Quantity MTL	Quantity KG	Quantity PZZ	Delivery conditions	Reworks
1	20K1007291	0514186	294	262	49		BRUSHED
2	20K1007292	0514186	600	540	100		

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 (%)	Cr (%)	Ni (%)	N (%)
		0.03	1	2	0.045	0.015	17.5 19.5	8 10.5	0.11
20K1007291	RAW MATERIAL	.022	.330	1.890	.0260	.0010	18.070	8.010	.0650
20K1007292	RAW MATERIAL	.022	.330	1.890	.0260	.0010	18.070	8.010	.0650

Identification Nr	Type of mechanical test	Rp 0.2 [MPa]	Rp 1.0 [MPa]	Rm [MPa]	A5 (%)
		220	250	520 700	47 50
20K1007291	TUBE	280	310	577	47.5
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NON DESTRUCTIVE TESTS ANTIMIXING TEST: CONFORM VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM	DESTRUCTIVE TESTS FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM TENSILE TEST ACCORDING TO EN ISO 6892-1:2009
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Marking	
Remarks: THE CHEMICAL COMPOSITION REFERS TO THE RAW MATERIAL USED ACCORDING TO EN 10088-2 AND 10028-7	