

OFFICINE NICOLA GALPERTI E FIGLIO S.p.A.
Capitale Sociale € 2.582.500,00 Intero al 100% versato
Sede Legale e Amministrativa: 23824 ORSIVIO (CO) - Via Enrico Fermi, 48
C.C.I.A.A. Lecco n.00205980138 - R.E.A. 78915 - C.F. e P.IVA IT00205980138
Sviluppamenti - Uffici Amministrativi / Workshop - Warehouse - Offices - Mailing address:
22010 ORSIVIO (CO) - Località S. Agata - Tel. 0344-87200 - Fax 0344-87210
E-mail: galperti@galperti.com - www.galperti.com

SPETT.LE / MESSRS:

GALPERTI CANADA ULC

3931 - 76 AVENUE

EDMONTON, ALBERTA, T6B 2S8 (CDN)

TEST CERTIFICATE
CERTIFICATO DI COLLAUDO
EN 10204
EN 10204

3.1

101054

CERTIFICATE N.

VS. ORDINE / YOUR

DATA / DATE

000278/1

11/01/2011

27658

20/08/2010

POS / ITEM	DESCRIZIONE / DESCRIPTION	QUANTITA' / QUANTITY	S/A	MATERIALE / MATERIAL	N° COLATA / PROVA HEAT N°/TEST N°	ACCIERIA STEEL MILL	#
001/001	10" 150 WN RF STD F51 B1 FSF4	410	S	ASTM A182/05a F51	101585.A/21	OUTKUMP/AVESTA	A

ANALISI CHIMICA / CHEMICAL ANALYSIS

#	C %	MIN %	SI %	P %	S %	CR %	NI %	MO %	CU %	V %	SN %	AL %	NB %	TI %	N %
A	0,016	1,190	0,550	0,019	0,001	22,390	5,560	3,250							
A	0,011	1,216	0,521	0,024	0,001	22,449	5,651	3,279							0,182 0,185
A															
A															PI± 36,027 36,229

NOTE / NOTES

PI=Pitting Index

CR+(3,3*MO)+(16*N)

C = ANALISI DI PRODOTTO / CHECK ANALYSIS

CARATTERISTICHE MECCANICHE / MECHANICAL PROPERTIES

TRAZIONE / TENSILE														RESILIENZA / CHARPY TEST			
#	TIPO TYPE	DIAMETRO PROVETTA mm/METER	SEZIONE AREA mmq.	LUNGHEZZA LENGHT mm.	TEMP. TEMPERATURE C	ROTTURA TENSILE Mpa.	SNERNAMENTO YIELD Mpa.	ALL. ELONG %	CONTR. REDUCT. %	TIPO TYPE	TEMP. TEMPERATURE	VALORI /VALUES	DUREZZA HB HARDNESS (AVERAGE)				
A	S	12.50	122.70	50.00	20	620	450	25.0	45.0				280				
A	O	12.50	122.70	50.00	20	713	565	42.0	73.8				209				

NOTE / NOTES

O = OTTENUTE / OBTAINED
S = STANDARD

TRATTAMENTI TERMICI / HEAT TREATMENTS

#	TRATTAMENTI TERMICI / HEAT TREATMENTS										NOTE GENERALI / GENERAL NOTES		
A	Annealed at 1050 dgr.C for 1.1/2 h.-Cooling from 1050 dgr.C in water (Annealed Solution).										FINITURE / ROUGHNESS FSF4=Ra 3,2 - Ra 6,3		
											STANDARD B1 = ASME B16.5 Ed.2003		

NOTE / NOTES

Pieces were 100% visual and dimensional checked and in compliance as per Edgen Murray's : "Material dimensional and visu al inspection processes".

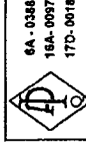
MARCHIO DI FABBRICA
TRADE MARK



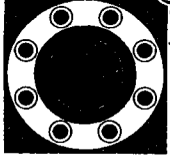
DATA COLLAUDO INT.
INT. INSPECT DATE
11/01/2011

COLLAUDATORE INT.
INT. INSPECTOR
N. SIMONE

ENTE UFFICIALE DI COLLAUDO
INSPECTION AUTHORITY



Certified acc. PED 97/23/EC
By LLOYD'S Register
No. LRC 180212



OFFICINE NICOLA GALPERTI E FIGLIO S.p.A.
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SPETT.LE / MESSRS:
GALPERTI CANADA ULC
3931 - 76 AVENUE
EDMONTON, ALBERTA, T6B 2S8 (CDN)

CERTIFICATO

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CERTIFICATO DI COLLAUDO
TEST CERTIFICATE

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VS. ORDINE / YOUR

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#	C %	MN %	SI %	P %	S %	CR %	NI %	MO %	CU %	V %	SN %	AL %	NB %	TI %	N %
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A C															36,027 36,229

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	TIPO TYPE	DIAMETRO PROVETTA Ø / METER	SEZIONE AREA mm² / INCH²	LUNGHEZZA LENGHT mm / INCH	TEMP. TEMPERATURE °C	ROTTURA TENSILE Mpa	SNERVAMENTO YIELD Mpa	ALL. ELONG %	CONTR. REDUCT. %	TIPO TYPE	TEMP. TEMPERATURE	VALORI / VALUES
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NOTE / NOTES

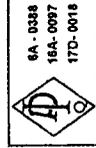
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MARCHIO DI FABBRICA
TRADE MARK

ENTE UFFICIALE DI COLLAUDO
INSPECTION AUTHORITY

DATA COLLAUDO INT.
INT. INSPECT DATE
11/01/2011

COLLAUDATORE INT.
INT. INSPECTOR
N.SIMONE



Certified acc. PED 97/23/EC
By LLOYD'S Register
No. LRC 180212



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CERTIFICATO DI COLLAUDO EN 10204
TEST CERTIFICATE

Original

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INS. ORDINE / INTERNAL JOB
101054

SPETT.LE / MESSRS:

GALPERTI CANADA ULC

**3931 - 76 AVENUE
EDMONTON, ALBERTA, T6B 2S8 (CDN)**

CERTIFICATE N.

000284/1

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Capitale Sociale €2.582.500 interamente versato

23824 DERVIO (LC) – Via Enrico Fermi, 46

Stabilimento - Uffici Amministrativi / Workshop - Warehouse - Offices - Mailing address.

Telefax (0344) 97210 - E-MAIL ADDRESS: galperti@galperti.com

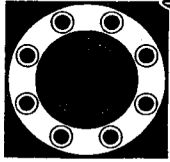
: galperti.com



Ferrite Content Check

FERRITE PROCEDURE: FER1

Operator		Inspector
Examined By	N.SIMONE	Stamp / Signature / Date
Date	11/01/2011	
Signature		



The Original

OFFICINE NICOLA GALPERTI & FIGLIO S.p.A.

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22010 GERA LARIO (CO) - Località S.Agata - Tel. (0344) 97200

Telefax (0344) 97210 - E-MAIL ADDRESS: galperti@galperti.com

WEB SITE : galperti.com



**Liquid Penetrants
Examination**

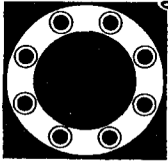
Cert. N° 1374

Page 1 of 1 Date 11/01/2011

CLIENT :	GALPERTI CANADA	SUPPLIER :	OFFICINE NICOLA GALPERTI E FIGLIO
CLIENT ORDER No. :	27658	SUPPLIER'S Ref.No. :	101054
OBJECT : Duplex Steel Flanges	ITEMS: According to the Customer's Specifications	ATTACHED CERTIFICATES	000278/1 to 000286/1
EXAMINATION PROCEDURE : ASTM E165 / LP02	PLACE : GERA LARIO (CO)	GENERAL SPECIFICATION : ASTM E 165-ASME VIII DIV.1 App.8 - ASME V Art. 6 and 24	
CUSTOMER'S Specification :	MATERIAL: ASTM A 182/05a F 51	DRAWINGS ANSI B16.5 AND P.O. DWGS.	Surface Condit. Machined

METHOD OF INSPECTION = LIQUID PENETRANT SOLVENT METHOD		
CLEANER DEGREASANT	VELNET	MANUFACTURER BY C.G.M.
APPLICATION	MANUAL - TEMP.: 18 DEG.C	
PENETRANT	ROTVEL AVIO B	MANUFACTURER BY C.G.M.
APPLICATION	BY BRUSH - TEMP.: 18 DEG.C	
DEVELOPER	ROTRIVEL U	MANUFACTURER BY C.G.M.
APPLICATION	BY ATOMISATION	
EMULSIFIER APPLICATION		
PENETRATION TIME =	20 MINUTES	DEVELOPER TIME = 10 MINUTES
RESULTS : Material Conform to Specifications		
NOTES : Area examined = 100% of flanges surface		

Operator		Inspectors	
Examined By	M. Perego	Customer's Present	Yes ☐ No ☐
Signature		Inspector's Present	Yes ☐ No ☐
Level	II-ASNT-SNT-TC-1A	Signature	
Date	11/01/2011		



The Original

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Telefax (0344) 97210 – E-MAIL ADDRESS: galperti@galperti.com

WEB SITE : galperti.com



**Positive Material
Identification Report**

Cert. N° 1298 /09 /FB

Page 1 of 1 Date 11/01/2011

Client : **GALPERTI CANADA**

Client Order No. : **27658**

Supplier's ref.No. : **101054**

Object : **Duplex Steel Flanges**

Material : **ASTM A 182/05a F 51**

Items : **As per attached MTC**

Attached Cert. : **000278/1 to 000286/1**

Client Spec. :

Extent of Test : **100% of Pieces**

Elements to be verified:

Cr	X								
Ni	X								
Mo	X								

PMI Results : **Flanges conform to material requirements & P.O. Specification**

Examination Date : **11/01/2011**

Examination Location : **Gera Lario (Co) - Italy**

Instrument Type : **Spectrotest JR**

Examined By :

Company :

Signature :

O.Aldè

Officine Nicola Galperti & Figlio S.p.A.

Examined By : Stamp

Company :

Date :

Dedicated to External Inspector

Notes

Dedicated to Internal Inspector



The Original

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Dimensional & Visual Inspection Report

Page 1 of 1

Date 11/01/2011

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CLIENT ORDER No.	: 27658	SUPPLIER'S Ref.No.	: 101054
ITEMS: ALL ITEMS	ATTACHED CERTIFICATES: 000278/1 to 000286/1		

THE FOLLOWING OPERATION HAVE BEEN WITNESSED BY: INTERNAL INSPECTOR

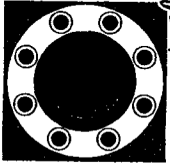
- ✓ DIMENSIONAL AND VISUAL INSPECTION
- ✓ EXTERNAL VISUAL CHECK
- ✓ VISUAL ROUGHNESS CONTROL ON FACING
- ✓ MARKING
- ✓ HARDNESS TEST CHECK

RESULTS: SATISFACTORY ACCORDING TO: ASME B16.5 & P.O. Requirements

SAGATA: 11/01/2011

p.Off. NICOLA GALPERTI & FIGLIO S.p.A.

N.SIMONE
(Quality control department)



The Original

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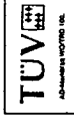
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**Certificate of Material
Compliance**

Page 1 of 1

Date

11/01/2011

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CLIENT ORDER No.	: 27658	SUPPLIER'S Ref.No.	: 101054
ITEMS: ALL ITEMS	ATTACHED CERTIFICATES : 000278/1 to 000286/1		

We hereby certify that all items supplied for the above purchase order meet all requirements of the applicable specifications of manufacture, the purchase order item descriptions, purchase specifications and purchase order requirements. We certify that all applicable heat treatments, chemical analysis, mechanical tests, non destructive examinations, welding procedures, etc., as required in the purchase order, were performed and that the results were in accordance with the requirements of the purchase order. We certify that all required analysis and tests were performed on final production parts, or on specimens which were representative in all respects, of the final production part. We certify that all the instruments used for all the measurements are properly calibrated in according to our internal procedure P011.

MATERIAL ACCORDING TO : Nace **MR-01-75 / ISO 15156**

S.AGATA : 11/01/2011

p.Off. NICOLA GALPERTI & FIGLIO S.p.A.

N.SIMONE

(Quality control department)



Tel. (+39).(030).6829911
Fax. (39).(030).6820616
Via Industriale, 1 - 25021 BAGNOLO MELLA (BS) ITALY

CERTIFICATO DI QUALITA' E COLLAUDO

Certificate of quality and material testing

CERTIFICATO DI COLLAUDO N. AC/ 2160 DATA : 21/07/10
Inspection certificate n.

In accordo a EN 10204.3.1/according to EN 10204.3.1

SPETT.LE: OFF.NICOLA GALPERTI & FIGLIO S.p.A. - DERVIO (LC)

Firm:

ORDINE : G00395/01

CONFERMA : 100432

Order: Order confirmation:

COLATA Heat	PEZZI N. of PCS	DESCRIZIONE MATERIALE Material Description	TIPO ACCIAIO Material Grade
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48219	2	BARRA TONDA DIAM.230 MOLATA	F51
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CONDIZIONI DI T.T.:

H.T. Condition:

ANALISI DI COLATA/Heat Analysis

C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Sn
0,020	1,61	0,42	0,019	0,0002	22,13	5,68	3,20		
Ca	Al	V	Ti	W	Ta	As	Co	Nb	Pb
B	N	Zr	Sb	Fe	PRE	Ferrite (%)			Dim. grano ASTM E112
0,182					35,60				

RISULTATI PROVE MECCANICHE/Test Results

Temp. [°C]	Senso	Rp0.2 [MPa]	Rp1 [MPa]	Rm [MPa]	A [%]	Z [%]	KV (10 X 10 mm) [J]	HB

Elaborazione E.A.F. + A.O.D./Steelmaking process E.A.F. + A.O.D. refining

Materiale privo di saldature/No welding performed on material

Materiale senza contaminazione da mercurio/Material free from Mercury contamination

Materiale controllato con spettrometro gamma e non presentante contaminazione radioattiva oltre i limiti previsti dal EU-Radiation Protection 122- part 1 dove pertinent/Material inspected with a gamma spectrometer and with no radioactive contamination beyond the limits provided for by the EU-Radiation Protection 122-part 1, when relevant

Prove meccaniche eseguite in accordo alla ASTM A370 (provino di trazione 12,5 mm dia.x50 mm) e alla ASTM E10 Mechanical tests performed according to ASTM A370 (Tensile 0,5"x2" page specimen) + ASTM E10

Analisi chimica in accordo alla ASTM A182/ Chemical analysis according to ASTM A182
(N) Q. A.

ENTI COLLAUDATORI

COLLAUDO CLIENTE
STATUS

ITALFOND S.p.A.

ITALFOND S.p.A. Garanzia Qualità

☒ APPROVED

☐ NOT APPROVED

Garanzia Qualità
Super alloy base

GARANZIA QUALITA'

INSPECTION CERTIFICATE

EN 10204 / 3.1

OUTOKUMPU

DEGERFORS STAINLESS
S-693 81 DEGERFORS, SWEDEN
Ref.QC-Dept. Jörgen Johansson

No. LP 2489-10
Your order-Ihre Bestellung-Votre commande

Date-Date 2010-11-23
G00755/L1

Product-Erzeugnisform-Produit Stainless steel, hot rolled billet. Intended for further hot or cold working and/or heat treatment. No mechanical tests performed. Not heat treated.	Our order Unsere Auftrag Notre commande	Advice of delivery Lieferschein Avis d'expédition
Requirements-Prüfgrundlagen-Exigences ASTM A 182/A 182M-09a	Purchaser-Besteller-Acheteur OFF NE NICOLA GALPERTI & FIGLIO SPA VIA E FERMI 46 IT-23824 DERVIO (LC)	
ITALY		

Marking-Kennzeichnung-Marquage			
Type of steel Werkstoff Nr. Nuance	Brand mark Herstellerzeichen Signe du producteur	Inspectors' stamp Abnahmestempel Poinçon de l'expert	Melting process Erschmelzungsart Procédé de fusion
F 51 2205			EEF-AOD-Converter refining

Extent of delivery-Lieferumfang-Etendue de livraison					
Item	Quantity	Dimensions, mm	Cast No	Lot No.	Weight Kg
Pos.	Anzahl	Abmessungen, mm	Schmelze Nr.	Los Nr.	Gewicht Kg
Pos.	Nombre	Dimensions, mm	Coulée n.	Lot n.	Poid Kg
03-01	24	Round 160	101585	77611	22 610

Chemical composition-Chemische Zusammensetzung-Composition Chimique (Weight %)																		
Cast No.																		
Schmelze Nr.																		
Coulee no																		
101585	C	0.016	Si	0.55	Mn	1.19	P	0.019	S	0.001	Cr	22.39	Ni	5.56	Mo	3.25	N	0.182

Test results-Prüfergebnisse-Résultats d'essais (L=longitudinal/längs/long, T=transversal/quers/travers)	
Test No./LT Rp 0.2 Rp 1.0 Rm A5 Z HB	Impact test-Kerbschlagbiegeversuch-- Temp Résilience °C
Probe Nr./LT	
Eprouvete n./LT	
Requirements Sollwerte Exigences	

 Q. A. Lindqvist	
STATUS ☒ APPROVED ☐ NOT APPROVED	

Other tests-Sonstige Prüfungen-Autres essais US-tested according to DS procedure OFF-201.	1 N/mm² = 1 MPa Inspection and gauge measurement-Ausmessung und Besichtigung-Contrôle visuel et dimensionnel
The order requirements stipulated are satisfied	
No remarks-Ohne Beanstandung-Pas de remarque No weld repair performed. PMI-test has been performed on every bar/billet with X-ray spectro, without remarks. No radioactivity at time of shipment = max 0.1 Bq/g.	

The material is manufactured according to a Quality System, registered to ISO 9001:2008 and approved by British Standards Institution. Certificate Number FM 34334. Approved acc. to AD2000-Merkblatt W0 by TÜV Nord Systems "Certified acc. to Pressure Equipment Directive (97/23/EC) by TÜV CERT-Certification body for pressure equipment of the TÜV NORD ; notified body, reg.-no. 0045." Reg.No.:556001-8748 V.A.T.No.:SE5560011874801 Registered office:Stockholm, Sweden	Outokumpu Stainless AB Degerfors Stainless	 JÖRGEN JOHANSSON Section Manager Quality Control
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