



## Material Certificates List & Traceability List

Certificates placed at "W:\Dokumentkontroll\KYSTDESIGN Sertifikater" sorted by filename in left column

KD Identification	PO Item	Drawing No	Description	KD B Sn.
<a href="#">20140131131600</a>		AD16-1010M11	Lifting Plate	CONSTRUCTOR 5
<a href="#">20140516100001</a>		AF25-1010M20_2	Tension Bolts	CONSTRUCTOR 5
<a href="#">20150217140800</a>		AD16-1010M18_2	Emerg Rec Lift Point	CONSTRUCTOR 5
<a href="#">20140516100018</a>		AD16-1013M20_3	Module Interface Bolt	CONSTRUCTOR 5
<a href="#">20150217132000</a>		AD16-1010M15_3	Emerg Rec Lift Point	CONSTRUCTOR 5
<a href="#">20140516100030</a>		AD16-1010M20_3	Tension Bolt Nut	CONSTRUCTOR 5
<a href="#">20140516111500</a>		AD16-1013M20_2	Module Interface	CONSTRUCTOR 5
<a href="#">20141203104400</a>		AF25-1012M20	Frame	CONSTRUCTOR 5
<a href="#">20141203104400</a>		AF25-1012M50	Bunnramme	CONSTRUCTOR 5
<a href="#">20140929100200</a>		AD16-1010M15_2	Emerg Rec Lift Point	CONSTRUCTOR 5

4100 Jørpeland, Norway

Country of origin: Norway

**INSPECTION CERTIFICATE/  
INSPEKTION ZERTIFIKAT**

EN 10204 - 3.2

Customer / Besteller Kystdesign as  Strandgaten 202 5525 Haugesund	Date / Datum 30.01.2014	Cert.no./Zeugnis Nr. C118/14
	Our order no./ Unsere Auftrags- Nr. 32530.1000	Our work-order no./ 1070494
	Customer order no/ Bestellsings- Nr. 13115	
Specification/ Spezifikation:	Certified goods/ Gegenstand FL245X75X675mm Smidd og grovmaskinert	
Marking/ Kennzeichnung: A20308-3 T13318 0494 STG2014-059	Grade / Werkstoff. Nr. X4CrNiMo16-5-1	

**CERTIFIED GOODS / ZERTIFIKERTES GUT**

Test no./ Probe Nr.	Number / Stück	Weight/ Gewicht (kg)	Dimension	Heat treatment / Wärmebehandlung	Process/ Erschmelzungsart	Reduction grade/ Verschmiedungsgra d.	Charge no./ Schmelze
T13318	4	404	245x75x675mm	Hardened 1000°C;2hrs.Water Tempered 560°C;8hrs.Air	Forged E/ AOD	19,14:1	A20308

**CHEMICAL COMPOSITION / CHEMISCHE ANALYSE**

SSA Quality name: 2060 S165M

C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Al	Ti	N								
0,035	0,38	0,65	0,001	0,021	16,02	4,90	1,00	0,130	0,007	0,001	0,039								

**MECHANICAL PROPERTIES ( L=Longitudinal, T=Transverse) MECHANISCHE EIGENSCHAFTEN ( L=längs, T=Quer)**

Test L/T Probe L/T	Temp. ° C	Yield Strength/ Streckgrenze		Tensile Strength/ Zugfestig- keit		Elongation/ Dehnung A %	Red. of area/Ein- schnürung z %	Impact values / Kerbschlagarbeit Kv				Temp. ° C	Hardness / Härte HB
		Rp0.2 N/mm2	Rp1.0 N/mm2	Rm N/mm2	Rp/Rm			J	J	J	Avg.		
L	20	840		910		21	63	193	188	187	189	-20	277

**RESULTS OF OTHER TESTS / ERGEBNIS ANDERER PROBEN .**

UT, PT accepted. Report attached

We hereby declare that the product supplied are in compliance with the order in which test results are supplied.	Fitness for purpose not evaluated
Manufacturer's authorized representative:	3.party representative: Bjørnar Strand





<b>NDT - REPORT</b>		Page : 1	Date : 29.01.2014	Our Order.no : 32530.1000	Report.no : Smi-7294 AO:1070494
Purchaser / Client : Kystdesign as		Customer Order.no : 13115.	Material: S165M	Charge no : A20308	Test no : T13318
		Drawing no : FI 675x245x75mm.	Surface Cond: Roughmachined	Weld Procedure :	Heat treatment : Final heattreated
Subject :Forged FI Bars 4 ea. Control Procedure/Standard :Basis ASTM A388 ASTM E165			Extent of inspection :Straight Beam on 2 perpendicular side. Acceptance Standard :ASTM A388 3mm DGS ASME VIII div.1 Appx.8		
Type of examination : <input checked="" type="checkbox"/> - Ultrasonic <input checked="" type="checkbox"/> - Penetrant <input type="checkbox"/> - Magnetic <input type="checkbox"/> - Visual <input type="checkbox"/> - Wrg					
Ul instrument : Krautkramer USM Go Couplant : Water/Soap Range calibration (mm) : Probe type : 4 Mhz Gain: 3mm DGS Surf.Corr:		Penetrant type : Bycotest RP20 Remover type : Water Developer type : Bycotest D30A Penetration time :30 min		Mpi equipment : Type of powder : Contrast colour : Field strength :	

Final inspection: Result accepted.

Sign: *Johannes Tungland.*

*EN473/Nordtest level III UT/PT*



# Test Certificate

Damstahl AS  
Lyngneset 46  
5302 Strusshamn

REF No  
Page  
Ord No  
Date Tested  
Date Reported

N301110 : Issue 1  
1 of 2  
None Supplied  
29/08/13  
02/09/13

Attn: Randi Vorland Hjelseth

Item - Ø25mm bar  
HT: 224632

Specification - Client Requirement

Tensile Test - BS EN ISO 6892-1: 2009 B								
	Dimensions [mm]	Area [mm <sup>2</sup> ]	GL [mm]	0.20%PS [N/mm <sup>2</sup> ]	UTS [N/mm <sup>2</sup> ]	%E1	%RA	Comments
001:Parent	4.980	19.48	24.96	850	1006	20.5	71	Nil

Charpy Test - BS EN ISO 148-1: 2010							
	Position	Dimensions [mm]	Denomination	Test Temp [°C]	Energy Absorbed [Joules]	Average [Joules]	Comments
002:Parent	N/A	10x5x2V	N/A	-40.0	61, 58, 57	59	Nil

Chemical Analysis - ICP-OES, Combustion (C+S), Fusion (N + O)												
	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	Al [%]	Co [%]	Cu [%]	Comments
003:	0.05	0.30	0.84	0.023	0.012	15.5	0.83	4.80	<0.010	0.14	0.28	Nil
	Nb [%]	Ti [%]	V [%]	Fe [%]	N [%]							Comments
J3:	0.02	<0.01	0.08	BASE	0.044							Nil
This test has been performed by our Teesside Laboratory who are accredited with UKAS No.0239. This test is not-accredited by NA.												

Hardness Test - EN ISO 6506-1: 2005 Brinell				
	Method	Load	Results	Comments
004:Parent Hardness	HBW 1/30	30kgf	321, 313, 319	Nil

## Certificate Comments

Uncertainty of measurement budget is available upon request.  
This is an electronic copy. See original certificate for terms and conditions.

Damstahl AS  
Lyngneset 46  
Ø25mm bar  
HT: 224632

REF No  
Page

N301110  
2 of 2

: Issue 1


**Tested by**


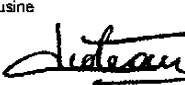
**Marcus Hedkvist &  
Michael Saavedra**

*P. F. O'Loughlin*  
For and on authority of  
Exova AS







**Witnessed by**

.....  
**DET NORSKE VERITAS**

Usine productrice Hersteller Manufacturer <b>Ugine</b> <b>Avenue Paul Girod</b> <b>73403 Ugine France</b>		INSPECTION CERTIFICATE 3.1 CERTIFICAT DE RECEPTION 3.1 ABNAHMEPRUEFZEUGNIS 3.1  EN 10204 / 3.1				UGITECH Providing special steel solutions					
5		3		1							
Numéro / Nummer / Number <b>81165032 000010</b>		Ordre de fab. / Auftrag / Prod. Order <b>A1237MV93000</b>		N° coulée / Schmelzen Nr / Heat N° <b>224632</b>		N° lot MM / Chargen / Batch <b>1237MV9300</b>					
4		11-1		11-2		11-3					
Certification - Werkzeugnis - Certificate <b>AD 2000-MERKBLATT W0/TRD100</b> <b>Pressure Equipment Directive 97/23/EC</b> <b>ISO 9001</b> <b>ISO/TS 16949</b> <b>ISO 14001</b>				99		ISO 9100 ISO 9120		98			
99				98		96					
UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9ROUND 25,000MM LONG. 5,000 M + 200,000MM -0,000MM				99		96					
Produit UGI 4418 BARRE RECTIFIÉE POLIE TRAITÉ(E) QT900 H9ROND(E) 25,000MM LONG. 5,000M + 200,000MM -0,00				99		96					
Erzeugnisform UGI 4418 STAB GESCHLIFFEN POLIERT VERGÜTET QT900 H9RUND 25,000MM LONG. 5,000M + 200,000MM -0,000				99		96					
Product UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9ROUND 25,000MM LONG. 5,000M + 200,000				99		96					
Client et/ou destinataire - Besteller und/oder Empfänger - Purchaser and/or Consigner <b>12816 DAMSTAHL A/S</b>				9		N° de commande client - Kundenbestellnummer - Purchase order number <b>475.099</b>					
9				9		10					
Norme de référence / Bezugsnorm / Standard for reference <b>EN 10088-3 ED 2005 1.4418</b>				9		12-2					
9				9		12-3					
Spécification client / Kundenspezifikation / Customer's specification				9		12-3					
9				9		12-3					
Nombre Stueckzahl Pieces Nbr <b>45</b>		18		Profil Profilie Shape <b>RO</b>		19		Dimension Ausmessung Dimension <b>25,000 MM</b>		21-1	
Longueur Laenge Length <b>5,000</b>		21-2		Poids Gewicht Weigh <b>870 KG</b>		22					
Mode d'élaboration Erchmel zungsart Melting process <b>EAF + AOD</b> <b>+ CC</b>		38		N° prélèvement Probenummer Test number <b>40YF</b>		39A		Demandé / Vorschrift / Required <b>42</b> <b>43</b> <b>44</b> <b>45</b> <b>46</b> <b>47</b> <b>48</b> <b>49</b> <b>% C</b> <b>% SI</b> <b>% MN</b> <b>% NI</b> <b>% CR</b> <b>% MO</b> <b>% S</b> <b>% P</b> <b>Min</b> <b>Max</b> <b>0,0600</b> <b>0,7000</b> <b>1,5000</b> <b>6,0000</b> <b>17,0000</b> <b>1,5000</b> <b>0,0300</b> <b>0,0400</b> <b>0,0410</b> <b>0,2830</b> <b>0,8520</b> <b>4,8550</b> <b>15,2990</b> <b>0,8460</b> <b>0,0137</b> <b>0,0259</b>			
Demandé / Vorschrift / Required <b>50</b> <b>% N</b> <b>Min</b> <b>Max</b> <b>0,0200</b>		51		52		53		54		55	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
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Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>84</b> <b>85</b> <b>86</b> <b>87</b>		76		77		78		79		80	
Demandé / Vorschrift / Required <b>76</b> <b>77</b> <b>78</b> <b>79</b> <b>80</b> <b>81</b> <b>82</b> <b>83</b> <b>8</b>											

Usine productrice Hersteller Manufacturer		<b>Ugine</b> Avenue Paul Girod 73403 Ugine France		<b>INSPECTION CERTIFICATE 3.1</b> <b>CERTIFICAT DE RECEPTION 3.1</b> <b>ABNAHMEPRUEFZEUGNIS 3.1</b> ----- <b>EN 10204 / 3.1</b>				<b>UGITECH</b> Providing special steel solutions									
Numéro / Nummer / Number <b>81165032 000010</b>		Ordre de fab. / Auftrag / Prod. Order <b>A1237MV93000</b>		N° coulée / Schmelzen Nr / Heat N° <b>224632</b>		N° lot MM / Chargen / Batch <b>1237MV9300</b>											
24		90		Limite d'élasticité Streckgrenze Yield Strength 0,2% 1%		RM Zugfestigkeit Tensile		Allongement Bruchdehnung Elongation A5D A4D		Striction Einschnürung Red area		<b>Dureté-Haerte-Hardness</b> HB HV HRC					
13		Min Max Min Max		° C 20 20 Mpa 700 Mpa Mpa 900 1100		% 12 % %		% %		% %		275 337 297					
N° prélèvement Probenummer Test number <b>40YF</b> 39B		1 L		20		776 823 968		23		73		297					
A l'état de Référence / treatment on test sample / Probestreifenbehandlung		14		25		26A 26B		27		28 89		29 30 88 100 37					
Taux de corroyage Forging ratio Verschmiedungsgrad <b>79,2</b>		101		<b>Résilience-Kerbschlagzähigkeit-Notch Toughness</b>													
A l'état de livraison / Lieferzustand / As delivered <b>TH1050° 2H + R2H 550° AIR</b>		13		Type Form Type <b>KISOV</b>		° C -40		Sens Richtung Direction <b>L</b>		Min <b>J 60</b>		Valeurs individuelles Einzelwerte Individual values <b>108-112-98</b>		Moyenne Mittelwerte Average <b>J 106</b>		Expansion latérale Seitliche Breitung Lateral Expansion	
A l'état de Référence / treatment on test sample / Probestreifenbehandlung		14															
Quantité livrée / delivered quantity / gelieferte Quantität		92		93		94		95		96		97		98		99	
The contents of the report are accurate and all test results and operations performed by UGITECH or its subcontractors are in compliance with the material specification and the specific applicable material requirements of ASME NCA-3800										Ugine le 09.10.2012 L'agent Réceptionnaire de l'usine Der Werksachverständige The work inspector 							
We declare that the mentioned product is in compliance with the requirements of the contract and that, after checks and tests, it meets in all respects the specified requirements and applicable standards and regulations, except reservations or exceptions as listed in this declaration of conformity; Document validated by electronic signature. Material manufactured in the REACH regulation respect.										66-1 66-2 040000608653 Page 2/2							



Usine productrice/Hersteller/Manufacturer Ugine Avenue Paul Girod - CS 90100 73403 Ugine Cedex France		INSPECTION CERTIFICATE 3 1 CERTIFICAT DE RECEPTION 3 1 ABNAHMEPRUEFZEUGNIS 3 1  EN 10204 / 3 1		UGITECH Providing special steel solutions			
Numero / Nummer / Number 81416668 000010		Ordre de fab / Auftrag / Prod Order A1421EC85000		N° coulee / Schmelzen Nr / Heat N° 420588		N° lot MM / Chargen / Batch 1421EC8500	
Certification - Werkzeugnis - Certificate AD 2000-MERKBLATT W0/TRD100 Pressure Equipment Directive 97/23/EC ISO 9001 ISO/TS 16949		ISO 9100 ISO 9120				Marque d'usine Herstellerzeichen Supplier's Mark  Poinçon de l'expert Prüfstempel Inspector's stamp 	
UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9 ROUND 25,000MM LONG 5,000M + 200,000MM -0,000MM Produkt UGI 4418 BARRE RECTIFIEE POLIE TRAITÉ(E) QT900 H9 ROND(E) 25,000MM LONG 5,000M + 200,000MM -0,0 Erzeugnisform UGI 4418 STAB GESCHLIFFEN POLIERT VERGUTET QT900 H9 RUND 25,000MM LONG 5,000M + 200,000MM -0,00 Product UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9 ROUND 25,000MM LONG 5,000M + 200,00							
Client - Besteller - Purchaser 12816 DAMSTAHL A/S		N° de commande client - Kundenbestellnummer - Purchase order number 508371					
Norme de reference / Bezugsnorm / Standard for reference EN 10088-3 ED 2005 1 4418 EN 10088-5 ED 2009 1 4418							
 0001207887							
Specification client / Kundenspezifikation / Customer's specification							
Nombre Stueckzahl Pieces Nbr 43		Profil Profile Shape RO		Dimension Ausmessung Dimension 25,000 MM		Longueur Laenge Length 5,000	
Poids Gewicht Weigh 911 KG							
Mode d'elaboration Erchelungsart Melting process EAF + AOD + CC		N° prelevement Probenummer Test number 7DK5		Demandé / Vorschrift / Required % C % Si % Mn % Ni % CR % MO % S % P Min 4,0000 15,0000 0,8000 Max 0,0600 0,7000 1,5000 6,0000 17,0000 1,5000 0,0300 0,0400 coulee / Schmelzen / Heat 0,0430 0,3320 0,7690 4,7440 15,1450 0,8290 0,0150 0,0269 Product / Erzeugnisform / Product			
Demande / Vorschrift / Required % N Min 0,0200 Max		Demandé / Vorschrift / Required 50 51 52 53 54 55 70 71 72 73 74 75 Min Max coulee / Schmelzen / Heat 0,0400 Product / Erzeugnisform / Product					
Demande / Vorschrift / Required Min Max		Demandé / Vorschrift / Required 76 77 78 79 80 81 82 83 84 85 86 87 Min Max coulee / Schmelzen / Heat Product / Erzeugnisform / Product					
We declare that the mentioned product is in compliance with the requirements of the contract and that after checks and tests it meets in all respects the specified requirements and applicable standards and regulations except reservations or exceptions as listed in this declaration of conformity Document validated by electronic signature Material manufactured in the REACH regulation respect				Ugine le 16 07 2014 L'agent Receptionnaire de l'usine Der Werksachverständige The work inspector  C. BLOTEAU			
We declare that the mentioned product is in compliance with the requirements of the contract and that after checks and tests it meets in all respects the specified requirements and applicable standards and regulations except reservations or exceptions as listed in this declaration of conformity Document validated by electronic signature Material manufactured in the REACH regulation respect				040000786794 Page 1/2			

**KYST DESIGN Certificate**

Test ☐ Material ☒

Date scanned: 17.02.2015

DWG: AD16-1010M18-2 →


Delivery: AD16-1010M20-2 →

AF25-1010M20-2 →

16 stk.  
4 stk.  
6 stk.

PC14953



Usine productrice/Hersteller/Manufacturer <b>Ugine</b> Avenue Paul Girod - CS 90100 73403 Ugine Cedex France			<b>INSPECTION CERTIFICATE 3 1</b> <b>CERTIFICAT DE RECEPTION 3 1</b> <b>ABNAHMEPRUEFZEUGNIS 3 1</b>  <b>EN 10204 / 3 1</b>						<b>UGITECH</b> Providing special steel solutions 					
Numero / Nummer / Number <b>81416668 000010</b>			Ordre de fab / Auftrag / Prod Order <b>A1421EC85000</b>			N° caulee / Schmelzen Nr / Heat N° <b>420588</b>			N° lot MM / Chargen / Batch <b>1421EC8500</b>					
		Limite d'élasticité Streckgrenze Yield Strength 0,2% 1%		RM Zugfestigkeit Tensile		Allongement Bruchdehnung Elongation A5D A4D		Striction Einschnürung Red area		<b>Dureté-Haerte-Hardness</b> HB HV HRB HRC				
24 90 ° C Mpa Mpa Mpa 700 900 1100		13 Min Max Min Max		20 20		12 % %		%		275 337				
N° prelevement / Probenummer <b>7DK5</b> Test number <b>39B</b>			1 L		20 780 843 952		21 21		71 71		293			
A l'état de Référence / Treatment on test sample / Probestreifenbehandlung														
Taux de corroyage Forging ratio Verschmiedungsgrad <b>79,2</b>			<b>Résilience-Kerbschlagzähigkeit-Notch Toughness</b>											
101 Type Form Type			T° C ° C		Sens Richtung Direction		Min J		Valeurs individuelles Einzelwerte Individual values		Moyenne Mittelwerte Average		Expansion laterale Seitliche Breitung Lateral Expansion	
31 KISOV			33 -40		32 L		95 60		35 117-122-115		36 118		91	
A l'état de livraison / Lieferzustand / As delivered <b>TH1050° 2H + R2H 550° AIR</b>			13											
A l'état de Référence / treatment on test sample / Probestreifenbehandlung														
14														
USE OF THIS PRODUCT IS POSSIBLE FOR METALLIC CONSTRUCTIONS OR METAL-CONCRETE CONSTRUCTIONS PRODUCT SSBN10088-5 (STAINLESS STEEL BAR EN10088-5) ACCORDING TO DOP1 (SEE UGITECH WEBSITE)														
56														
Quantité livrée / delivered quantity / gelieferte Quantität 92			93			94								
We declare that the mentioned product is in compliance with the requirements of the contract and that, after checks and tests, it meets in all respects the specified requirements and applicable standards and regulations, except reservations or exceptions as listed in this declaration of conformity. Document validated by electronic signature Material manufactured in the REACH regulation respect.														
Ugine le 16 07 2014 L'agent Réceptionnaire de l'usine Der Werksachverständige The work inspector C. BOUTEAU														
040000786794 Page 2/2														

# MATERIAL REPORT

Certificate no: 4875-1	Rev A	Order no: 4875	 <p>Quality Lab AS Myra Industriområde 4110 Forsand Norge</p>	
Client: Damstahl AS Lyngneset 46 5302 Strusshamn		Date: 13.11.2014		
		Client contact Per Christensen	Equipment identification: HT: 420588      Ø25,00mm	
Pages 1	Surveyor Leif Solheim, DNV GL		Standard	

Additional information:

Tensile test, ISO 6892-1:2009 A 20							
Test ident:	Dimension [mm]	Area [mm <sup>2</sup> ]	Test temp [°C]	R <sub>0,2</sub> [Mpa]	R <sub>m</sub> [Mpa]	Elong.(5xD) [%]	Red [Z]
Longitudinal T/4	12,51	122,91	23	874	1006	22	71

Charpy V impact test, NS-EN ISO 148-1:2010						
Test ident	Dimension [mm]	Test temp [°C]	Single values [J]			Average [J]
			1	2	3	
Longitudinal T/4	10x10x55	-40	163	159	166	163

Hardness test HB, NS-EN ISO 6506-1:2005
302 HB

Chemical analysis(%), (non accredited test)											
Description	C	Si	Mn	S	P	Cr	Ni	Mo	Cu		
Basematerial	,048	0,34	0,80	,012	,024	15,1	4,73	0,86	0,19		

Date and signature Quality Lab AS	
13.11.2014	Sigve Håland, Lab Technician
Witnessed by	
13.11.2014	Leif Solheim, DNV GL





# Test Certificate

Damstahl AS  
Lyngneset 46  
5302 Strusshamn

REF No  
Page  
Ord No  
Date Tested  
Date Reported

N 301109 : Issue 1  
1 of 2  
None Supplied  
29/08/13  
02/09/13

Attn: Randi Vorland Hjelseth

Item - Ø40mm bar  
HT: 307626

Specification - Client Requirement

Tensile Test - BS EN ISO 6892-1: 2009 B								
	Dimensions [mm]	Area [mm <sup>2</sup> ]	GL [mm]	0.20%PS [N/mm <sup>2</sup> ]	UTS [N/mm <sup>2</sup> ]	%E1	%RA	Comments
001:Parent	4.960	19.32	25.07	858	985	33.0	72	Nil

Charpy Test - BS EN ISO 148-1: 2010							
	Position	Dimensions [mm]	Denomination	Test Temp [°C]	Energy Absorbed [Joules]	Average [Joules]	Comments
002:Parent	N/A	10x10x2V	N/A	-40.0	156, 159, 146	154	Nil

Chemical Analysis - ICP-OES, Combustion (C+S), Fusion (N + O)												
	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	Al [%]	Co [%]	Cu [%]	Comments
003:	0.04	0.33	0.81	0.025	0.012	15.3	0.88	4.77	<0.010	0.10	0.17	Nil
	Nb [%]	Ti [%]	V [%]	Fe [%]	N [%]							Comments
003:	0.01	<0.01	0.06	BASE	0.039							Nil
This test has been performed by our Teesside Laboratory who are accredited with UKAS No.0239. This test is not-accredited by NA.												

Hardness Test - EN ISO 6506-1: 2005 Brinell				
	Method	Load	Results	Comments
004:Parent Hardness	HBW 1/30	30kgf	315, 315, 311	Nil

## Certificate Comments

Uncertainty of measurement budget is available upon request.  
This is an electronic copy. See original certificate for terms and conditions.

Damstahl AS  
Lyngneset 46  
Ø40mm bar  
HT: 307626




REF No  
Page


N301109 : Issue 1  
2 of 2

Tested by **Marcus Hedkvist &  
Michael Saavedra**

*P.F. O'Loughlin*  
For and on authority of  
Exova AS


Witnessed by .....  
**DET NORSKE VERITAS**

Usine productrice Hersteller Manufacturer <b>Ugine</b> <b>Avenue Paul</b> <b>Girod</b> <b>73403 Ugine</b> <b>France</b>		<b>INSPECTION CERTIFICATE 3.1</b> <b>CERTIFICAT DE RECEPTION 3.1</b> <b>ABNAHMEPRUEFZEUGNIS 3.1</b>  <b>EN 10204 / 3.1</b>		<b>UGITECH</b> Providing special steel solutions 										
5		3		1										
Numéro / Nummer / Number <b>81233243 000010</b>		Ordre de fab. / Auftrag / Prod. Order <b>A1318FC5200</b>	N° coulée / Schmelzen Nr / Heat N° <b>307626</b>	N° lot MM / Chargen / Batch <b>1318FC5200</b>										
4		11-1	11-2	11-3										
Certification - Werkzeugnis - Certificate <b>AD 2000-MERKBLATT W0/TRD100</b> <b>Pressure Equipment Directive 97/23/EC</b> <b>ISO 9001</b> <b>ISO/TS 16949</b> <b>ISO 14001</b>		ISO 9100 ISO 9120		Marque d'usine Herstellerzeichen Supplier's Mark  Poinçon de l'expert Prüfstempe Inspector's stamp <b>IQ</b>										
99		98		97										
Produit Erzeugnisform Product <b>UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9ROUND 40,000MM LONG. 5,000 M + 200,000MM -0,000MM</b> <b>UGI 4418 BARRE RECTIFIÉE POLIE TRAITÉ(E) QT900 H9ROND(E) 40,000MM LONG. 5,000M + 200,000MM -0,00</b> <b>UGI 4418 STAB GESCHLIFFEN POLIERT VERGÜTET QT900 H9RUND 40,000MM LONG. 5,000M + 200,000MM -0,000</b> <b>UGI 4418 BAR GROUND POLISHED QUENCHED AND TEMPERED QT900 H9ROUND 40,000MM LONG. 5,000M + 200,000</b>				6										
Client et/ou destinataire - Besteller und/oder Empfänger - Purchaser and/or Consigner <b>12816 DAMSTAHL A/S</b>		N° de commande client - Kundenbestellnummer - Purchase order number <b>483784</b>		10										
Norme de référence / Besugsnorm / Standard for reference <b>EN 10088-3 ED 2005 1.4418</b>				12-2										
Spécification client / Kundenspezifikation / Customer's specification				12-3										
Nombre Stueckzahl Pieces Nbr <b>36</b>		Profil Profile Shape <b>RO</b>	Dimension Ausmessung Dimension <b>40,000 MM</b>	Longueur Laenge Length <b>5,000</b>	Poids Gewicht Weigh <b>1696 KG</b>									
18		19	21-1	21-2	22									
Mode d'élaboration Erchmel zungsart Melting process <b>EEF + AOD</b> <b>+ CC</b>	N° prélèvement Probenummer Test number <b>4WGL</b>	Demandé / Vorschrift / Required 42 43 44 45 46 47 48 49 % C % Si % Mn % Ni % CR % MO % S % P Min Max coulée/ Schmelzen / Heat Produit / Erzeugnisform/ Product												
38		39A	0,0600 0,7000 1,5000 6,0000 17,0000 1,5000 0,0300 0,0400 0,0380 0,2997 0,7953 4,7213 15,2236 0,8821 0,0150 0,0245											
Demandé / Vorschrift / Required % N Min Max		50 0,0200	51	52	53	54	55	70	71	72	73	74	75	
coulée/ Schmelzen / Heat Produit / Erzeugnisform/ Product		0,0400												
Demandé / Vorschrift / Required Min Max		76	77	78	79	80	81	82	83	84	85	86	87	
coulée/ Schmelzen / Heat Produit / Erzeugnisform/ Product														
The contents of the report are accurate and all test results and operations performed by UGITECH or its subcontractors are in compliance with the material specification and the specific applicable material requirements of ASME NCA-3800													Ugine le 07.04.2013 L'agent Réceptionnaire de l'usine Der Werksachverständige The work inspector 	
We declare that the mentioned product is in compliance with the requirements of the contract and that, after checks and tests, it meets in all respects the specified requirements and applicable standards and regulations, except reservations or exceptions as listed in this declaration of conformity ; Document validated by electronic signature. Material manufactured in the REACH regulation respect.													66-1	
66-2													040000655395 Page 1/2 63	

Usine productrice Hersteller Manufacturer		Ugine Avenue Paul Girod 73403 Ugine France		INSPECTION CERTIFICATE 3.1 CERTIFICAT DE RECEPTION 3.1 ABNAHMEPRUEFZEUGNIS 3.1  EN 10204 / 3.1					UGITECH Providing special steel solutions						
5		3		1											
Numéro / Nummer / Number 81233243 000010		4		Ordre de fab. / Auftrag / Prod. Order A1318FC5200		11-1		N° coulée / Schmelzen Nr / Heat N° 307626		11-2		N° lot MM / Chargen / Batch 1318FC5200		11-3	
				Limite d'élasticité Streckgrenze Yield Strength 0,2% 1%		RM Zugfestigkeit Tensile		Alongement Bruchdehnung Elongation A5D A4D		Striction Einschnürung Red area		Dureté-Haerte-Hardness			
24		90		T° C		Mpa Mpa		Mpa		%		HB HV HRC			
13		Min Max Min Max		° C 20 20		700		900 1100		16		275 337			
N° prélèvement Probenummer Test number 39B		4WGL 1 L		20		866 897		970		20		71		298	
A l'état de Référence / treatment on test sample / Probestreifenbehandlung															
14		25		26A 26B		27		28 89		29		30 88		100 37	
Taux de corroyage Forging ratio Verschmiedungsgrad 31,8		101		Résilience-Kerbschlagzähigkeit-Notch Toughness											
		Type Form Type		T° C		Sens Richtung Direction		Min		Valeurs individuelles Einzelwerte Individual values		Moyenne Mittelwerte Average		Expansion latérale Seitliche Breitung Lateral Expansion	
		31		33		32		95		35		36		91	
A l'état de livraison / Lieferzustand / As delivered TH1050° 2H + R2H 550° AIR		13		° C 20 -40		L L		J 80 60		J 178-173-177 171-157-171		J 176 166			
A l'état de Référence / treatment on test sample / Probestreifenbehandlung															
14															
														5	
														6	
Quantité livrée / delivered quantity / gelieferte Quantität														92	
														93	
The contents of the report are accurate and all test results and operations performed by UGITECH or its subcontractors are in compliance with the material specification and the specific applicable material requirements of ASME NCA-3800														94	
Ugine le 07.04.2013														66-1	
L'agent Réceptionnaire de l'usine														66-2	
Der Werksachverständige														63	
The work inspector															
040000655395 Page 2/2															





Usine productrice/Hersteller/Manufacturer <b>Ugine</b> Avenue Paul Girod - CS 90100 73403 Ugine Cedex France				<b>INSPECTION CERTIFICATE 3 1</b> <b>CERTIFICAT DE RECEPTION 3 1</b> <b>ABNAHMEPRUEFZEUGNIS 3 1</b> <hr/> <b>EN 10204 / 3 1</b>				<b>UGITECH</b> Providing special steel solutions 																											
Numero / Nummer / Number <b>81419448 000010</b>				Ordre de fab / Auftrag / Prod Order <b>A1421DU46000</b>		N° coulée / Schmelzen Nr / Heat N° <b>425518</b>		N° lot MM / Chargen / Batch <b>1421DU4600</b>																											
		T° C		Limite d'élasticité Streckgrenze Yield Strength 0 2% 1%		RM Zugfestigkeit Tensile		Allongement Bruchdehnung Elongation A5D A4D		Striction Einschnürung Red area		Dureté-Haerte-Hardness																							
24		90		Mpa Mpa		Mpa		% %		%		HB HV HRB HRC																							
13		Min Max Min Max		700		900 1100		16				275 337																							
N° prelevement Probenummer Test number  398				1 L		20		841 896		997		21		71		306																			
A l'état de Référence / treatment on test sample / Probestreifenbehandlung																																			
14				25		26A		26B		27		28		89		29		30		88		100		37											
Taux de corroyage Forging ratio Verschmiedungsgrad <b>31,8</b>				<b>Résilience-Kerbschlagzähigkeit-Notch Toughness</b>																															
				Type Form Type		T° C		Sens Richtung Direction		Min		Valeurs individuelles Einzelwerte Individual values				Moyenne Mittelwerte Average		Expansion laterale Seitliche Breitung Lateral Expansion																	
101				31		33		32		95						35		36		91															
A l'état de livraison / Lieferzustand / As delivered				° C				J		J						J																			
13				KISOV		20		L		80		160-170-165				165																			
TH1050° 2H + R2H 550° AIR				KISOV		-40		L		60		145-138-141				141																			
A l'état de Référence / treatment on test sample / Probestreifenbehandlung																																			
14																																			
<b>USE OF THIS PRODUCT IS POSSIBLE FOR METALLIC CONSTRUCTIONS OR METAL-CONCRETE CONSTRUCTIONS</b> <b>PRODUCT SSBEN10088-5 (STAINLESS STEEL BAR EN10088-5) ACCORDING TO DOP1 (SEE UGITECH WEBSITE)</b>																																			
Quantité livrée / delivered quantity / gelieferte Quantität																																			
92												93												94											
We declare that the mentioned product is in compliance with the requirements of the contract and that after checks and tests it meets all respects the specified requirements and applicable standards and regulations except reservations or exceptions as listed in this declaration of conformity. Document validated by electronic signature Material manufactured in the REACH regulation respect												Ugine le 23 07 2014 L agent Receptionnaire de l usine Der Werksachverständige The work inspector 040000788683 Page 2/2												66-1 66-2 63											

# MATERIAL REPORT

Certificate no: 4875-2	Rev A	Order no: 4875	 <p>Quality Lab AS Myra Industriområde 4110 Forsand Norge</p>	
Client: Damstahl AS Lyngneset 46 5302 Strusshamn		Date: 13.11.2014		
		Client contact Per Christensen	Equipment identification: HT: 425518      Ø40,00mm	
Pages 1	Surveyor Leif Solheim, DNV GL		Standard	

Additional information:



Tensile test, ISO 6892-1:2009 A 20							
Test ident:	Dimension [mm]	Area [mm <sup>2</sup> ]	Test temp [°C]	R <sub>0,2</sub> [Mpa]	R <sub>m</sub> [Mpa]	Elong.(5xD) [%]	Red [Z]
Longitudinal T/4	12,5	122,72	23	868	1007	20	69

Charpy V impact test, NS-EN ISO 148-1:2010						
Test ident	Dimension [mm]	Test temp [°C]	Single values [J]			Average [J]
			1	2	3	
Longitudinal T/4	10x10x55	-40	150	151	149	150

Hardness test HB, NS-EN ISO 6506-1:2005
325HB

Chemical analysis(%), (non accredited test)											
Description	C	Si	Mn	S	P	Cr	Ni	Mo	Cu		
Basematerial	,041	0,28	0,82	,011	,023	15,2	4,65	0,85	0,22		

Date and signature Quality Lab AS	
13.11.2014	Sigve Håland, Lab Technician
Witnessed by	
13.11.2014	Leif Solheim, DNV GL

Sn. 054-061

B 13842, 8 stk.

# Acciaierie Valbruna S.p.A.


 QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1

 36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

 Cliente / Besteller/Purchaser/Client  
VALBRUNA NORDIC AB  
LOVARTSGATAN 7  
65221-KARLSTAD - SWEDEN-SE

 Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
Hersteller/Item/Usine productrice

 Avviso di Spedizione: D-VI12009414  
Lieferanzeiger/Packing list/B.L.

 Ordine nr: R20629  
Bestell/Your order/Commande

 Certificato nr: MEST177007/2012/  
Prüfung/Test/Essai

 Conferma ordine nr: E11007348  
Werks/Our Order/Ref. nr.

 Marchio di Fabbrica:  
Zeichen des Lieferwerkes  
Trade mark  
Sigle de l'usine productrice

 Stato di fornitura: - Hardened and Tempered Bright Ground  
C-Exec  
Lieferzustand/Delivery state/Etat de livraison

 Tipo di Elaborazione: E+AOD  
Erschmelzungsart/Melting process/Mode d'elaboration

 Punzone del Collaudatore:  
Stempel des Werksachverständigen  
Inspector's stamp/Poinçon de l'essayeur

### Specifiche:

Anforderungen / Requirements / Exigences

MS-RB-4418.4 8. 1.4418 QT900

EN 10088-3 2005 1.4418 QT900

EN 10272 2007 1.4418 QT900

Qualità: 1.4418

rkstall/Grade/Nuance

Marca: PKA7914

Markenbezeichnung/Brand/Nuance

Punzonatura: 1.4418

Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - mm Abmessungen Dimension Dimension	Tolleranza Tolleranz. Allowance Tolerance	Lunghezza - mm Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pieces	Peso - KG Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0010	Round	80,000	h9	5500 / 5900	256231	14	3232,0	124412010

### TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probessab Specimen/Eprouvette Larg diam. Spess. Breite Diam. Dicke Width Diam. Thickness Larg diam. epais mm	°C	Posiz. Saggio Probenlage Location Emplacement 1)	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% N/mm2	Snervamento Streckgrenze Yield Stress Limite elastique Rp 1% N/mm2	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm N/mm2	Allungamento Bruchdehnung Elongation Allongement A5 %	Strizione Einschnürung Reduction of area Striction Z %	Resilienza Kerbschlagarbeit Impact Value Resilience KV J	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max		750	800	900 1050	16	40	80	280 340
A	10	20	L	884	897	972	18	57	139 140 136 325	
C	10	20	L	882	910	988	18	55	135 131 136 326	

TEST	Provetta/Probessab Specimen/Eprouvette Larg diam. Spess. Breite Diam. Dicke Width Diam. Thickness Larg diam. epais mm	°C	Posiz. Saggio Probenlage Location Emplacement 1)	Resilienza Kerbschlagarbeit Impact Value Resilience KV J	Espansione laterale Lateral Expansion	Shear Shear
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max		32	32	32
B	10X10	-40	L	111	110	108
D	10X10	-40	L	105	108	106

1) L=longitudinale/längs, T=trasversale/quer, Q=Tangenziale/tangentiel

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze/Coulée	min 0,020 max 0,050	0,30 0,70	0,60 1,00	15,00 17,00	0,80 1,25	0,60	4,50 5,50	0,0250	0,040	0,005 0,015	0,020 0,050	-	-	-	-
256231	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Ti %	P %	S %	N %				
	0,021	0,35	0,78	15,33	1,01	0,23	5,24	0,0003	0,027	0,015	0,030				

Colata / Heat Schmelze/Coulée	min - max 0,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256231	Cb-Nb%	0,008													

UT-TESTING ACCORDING TO MS-RB-4418.1: OK

Material hardened 1040°C for 2 h/air.

Tempered 570°C for 10 h/air.

KYSTDESIGN Certificate	
Test <input type="checkbox"/>	Material <input checked="" type="checkbox"/>
Date scanned:	16.05.2014
DWG:	ADI6-1010M20-3
Delivery:	Supporter, Constructor

Vicenza, 21/03/12

 VCC012  
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

# Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient  
VALBRUNA NORDIC AB  
LOVARTSGATAN 7  
65221-KARLSTAD - SWEDEN-SE

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
Hersteller/Item/Usine produtrice

Stato di fornitura: - Hardened and Tempered Bright Ground  
C-Exec  
Lieferzustand/Delivery state/Etat de livraison

Avviso di Spedizione: D-VI12009414  
Lieferanzeige/Packing list/B.L.

Ordine nr: R20629  
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
Erschmelzungsart/Melting process/Mode d'elaboration

Certificato nr: MEST177007/2012/  
Prüfung/Test/Essai

Conferma ordine nr: EI11007348  
Werks/Our Order/Ref nr.

Marchio di Fabbrica:  
Zeichen des Lieferwerkes  
Trade mark  
Sigle de l'usine productrice



Punzone del Collaudatore:  
Stempel des Werkssachverständigen  
Inspector's stamp/Poinçon de l'essayeur



Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK  
Verwechslungsprüfung: spectralanalytisch durchgeführt  
Antimixing testing performed: OK  
Contrôle antimelange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze  
Besichtigung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Contrôle visuel et dimensions: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination  
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s., 4.3 by TUEV and LLOYD'S  
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.  
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 21/03/12

VCQ012  
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 2



Regi & Mkt off: G-33 & 34, MIDC, Industrial Area, Tarapur, Thane(Dist), Maharastra. INDIA - 401506, E-Mail: sales@viraj.com  
Works: SURVEY No- 114, 119 & 120, VILL. Mahagaon, Tal: Palgar, Dist: Thane-401501, MAHARASTRA, INDIA, vielqc@viraj.com

**TEST CERTIFICATE ACCORDING TO EN 10204-3.1**

<b>CUSTOMER</b> DAMSTAHL A/S DANMARKSVEJ 28 8680 SKANDERBORG DENMARK	<b>ORDER NO</b> 485031	<b>PACKING LIST NO</b> 51/954144/8	<b>INSPECTION NO</b> 100002705493	<b>DATE</b> 31.05.2013
		<b>GRADE</b> 1.4401/1.4404, AISI 316/316L	<b>HEAT No</b> 29259	

**BUNDLE NO :**  
1100026409, 1100026410, 1100026411, 1100026412, 1100026413,

**DESCRIPTION**  
STAINLESS STEEL ROUND BARS



**HOT ROLLED & FORGED BAR**

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
180.000 MM	ROUND	EN10060	3.00 - 6.00	5	5.090 TO

**CHEMICAL ANALYSIS**

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0200	1.710	0.530	0.0220	0.0390	16.540	10.100	0.480	2.050	0.160	0.0800

**TEST RESULTS**

0.2% yield strength MPa	Tensile Strength MPa	Elongation %	Reduction Of Area %	Hardness BHN	1% yield strength MPa	Charpy V Notch Impact Test (J) (Test at 26°C) Average of 3 Test
259.0	565.0	60.0	71.0	165.0	287.0	1)147 2)150 3)152 AVG 150

**SPECIFICATION:**

MATERIAL CONFIRMS TO ASTM A276-10 CONDI- A ASME SA 479 DIN 10088-3, BS EN 10272:2000, EN 10277-1 Class 3, EN 10060, NACE MR 0175-2002, PED 97/23/EC, ASME ACC TO SECTION II PART A ED - 4, INTERGRANULAR CORROSION TEST SATISFACTORY AS PER DIN EN ISO 3651-2 & DIN 50914 EN 10222-5, CERTIFIED AS PER EN 10204-3.1 & AD 2000 W2/10, NACE MR0103, NORSOK M630 MDS S01 Rev 4.  
PMI TEST : OK. ULTRASONIC TEST ASME SA380/EN 10228-4 Class 3. IMPACT TEST ISO 148-1/EN 10002-1.  
GRADE: 1.4401/1.4404 / AISI 316/316L.

**REMARKS**

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS.  
MINIMUM SOLUTION ANNEALING TEMPERATURE 1050°C. SOAKING TIME 01 HR/INCH WATER QUENCHED.  
WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

KYSTDESIGN Certificate	
Test <input type="checkbox"/>	Material <input checked="" type="checkbox"/>
Date scanned:	16.05.2014
DWG:	AD16-1013M20-2
Delivery:	Supporter, Constructor

Sn. 105-121

WORKS INSPECTOR  
K R K MURTHY





Viraj Profiles Limited

## INSPECTION CERTIFICATE &amp; MILL TEST CERTIFICATE-DIN 50049/EN 10204 3.1

Customer : DAMSTAHL A/S		Approved acc. To AD 2000-Markblatt W-0 and certified acc. To PED (97/23/EC) by Certification Body		INVOICE / MTR NO. 51-954144/ 8	
DANMARKSVEJ 28 8680 SKANDERBORG DENMARK		for Pressure Equipment of TUVNORD System (Notified body reg.no:0045)		DATE 31.05.2013	
		STEEL MAKING ROUTE INDUCTION MELTED / AOD		CUSTOMER PURCHASE ORDER NO 485031	
				GRADE/MATERIAL 1.4401/1.4404/AISI 316/316L	
				SPECIFICATION	
				DIMENSIONAL SPECIFICATION	
				HOT ROLLED & FORGED BAR, STAINLESS STEEL, ROUND BARS	
BUNDLE NOS. 1100026409, 1100026410, 1100026411, 1100026412, 1100026413.					
<b>CHEMICAL ANALYSIS (%)</b>					
HEAT NO	SIZE	SHAPE	TOLERANCE	LENGTH	PIECES
29259	180.000 MM	ROUND	EN10060	3.00 - 6.00	5
				QTY(MT)	
				5.090	
				C	
				0.020	
				Mn	
				1.710	
				Si	
				0.530	
				S	
				0.022	
				P	
				0.039	
				Cr	
				16.540	
				Ni	
				10.100	
				Mo	
				2.050	
				Cu	
				0.480	
				Ti	
				0.003	
				Co	
				0.160	
				N	
				0.080	
<b>MECHANICAL PROPERTIES(EN 10002-1)</b>					
HEAT NO	SAMPLE NUMBER	DIRECTION	TENSILE STRENGTH(N/mm2)	PROFF STRESS(N/mm2)	ELONGATION
29259	100002705493	L	565.00	259.00	287.0
				RP=0.2%	
				RP=1.0%	
				Lo=5D	
				60.00	
				%REDUCTION OF AREA	
				71.00	
				GRAIN SIZE	
				147	
				150	
				152	
				150	
				AVG	
				165.00	
HARDNESS					
CHARPY V-NOTCH(JOULES)					
1 2 3					
147 150 152					
150 165.00					
MATERIAL CONFIRMS TO ASTM A276-10 CONDI- A, ASTM A 182, ASME SA 479 DIN 10088-3, BS EN 10272:2008, EN 10277-1 Class 3, EN 10060, NACE MR 0175-2002, NACE MR0103, PED 97/23/EC, ASME ACC TO SECTION II PART A ED - 4, INTERGRANULAR CORROSION TEST SATISFACTORY AS PER DIN EN ISO 3651-2, & DIN 50914, EN10222-5, CERTIFIED AS PER EN 10204-3.1. & AD 2000 W2W10, NORSOK M630 MDS S01 Rev 4, PMI TEST : OK, ULTRASONIC TEST ASME SA380/EN 10228-4 Class 3, IMPACT TEST ISO 148-1/EN 10002-1, GRADE:1.4401/1.4404 / AISI 316/316L.					

WE CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIES WITH THE REQUIREMENTS OF SPECIFICATION &amp; ORDER/CONTRACT AND IS OF INDIAN ORIGIN.



MANUFACTURER'S SYMBOL



INSPECTOR STAMP



WORKS INSPECTOR

OFFICE : 10, Imperial Chambers 1st Floor, Wilson Road, Ballarad Estate, Mumbai-40 038, INDIA, Tel: (+91-22) 22614327, 22614284, 22617678, 22613056; Fax: 91-22-22612980/22659763  
WORKS : SURVEY NO-114, 119 & 120, VILL-MAHAGAON TAL-PALGHAR, DIST- THANE, MAHARASHTRA - 401506, INDIA, e-mail - vielqc@viraj.com



<b>CUSTOMER:</b>		<b>Abnahmeprüfzeugnis nach</b>		<b>DIN EN 10204 3.1/01.05</b>	
DAMSTAHL A/S		Zertifiziert nach:		AD2000 W 0 TRD 100, PED (97/23/EC)	
DANMARKSVEJ 28		Erschmelzungsart		GRADE	
8680 SKANDERBORG		Induction melted / AOD		MATERIAL SPEZIFIKATION	
DENMARK				DIN 10060	
Unsere Oder-Nr.				Edelstahl Rundstab	
				WARMGEWALZT & ABGEZOGENE	

Bunde Nle : 1100026409, 1100026410, 1100026411, 1100026412, 1100026413,

Chemische Zusammensetzung/ Chemical Composition											
Seh-Nr.	SIZE MM	Länge mtr	Pump	Schmelzen-Nr.	Stückzahl	Gewicht	%C	%Mn	%Si	%S	%P
20259	180 300	ROUND	EN10080	3.00 - 6.00	5	5.090	0.020	1.710	0.530	0.022	0.038

Schmelzen Nr.	Fertigungsaufr.-Nr.	Probentrichtung	Zugversuch	MPa (N/mm²)	MPa (N/mm²)	AS1%	Z1%	Schlagbiegeversuch/ Impact test					Härte/ Hardness
								1.Prüf	2.Prüf	3.Prüf	Durchschnitt	Richtreihe gemäß ASTM E 112	
20259	100002705493	L		555.00	259.00	287.0	60.00	147	150	152	150	4 und feiner	BHN 155.00

**HITZEBEHANDLUNG**  
**ABMESSUNGEN**  
**OBERFLÄCHENINSPEKTION**  
**PMI**  
**Interkristalline Korrosion**  
**US-Prüfung/ Ultrasonic testing**  
**MICRO OBSERVATION**  
**BEMERKUNGEN**

Losungsgeprüft bei 1050 ° C und mit Wasser abgeschreckt  
 Konform der Spezifikation  
 Die Lieferung wurde besichtigt und auf Maß kontrolliert  
 Die Lieferung wurde auf Identität geprüft (Optische Emissionsspektrometrie)  
 ASTM A 202 PRACTICE E / DIN 50914 / EURO NORM 114 / ISO 3651-2  
 Die Lieferung wurde US-geprüft nach  
 NEIN Karbidausscheidung BEACHTEN ON Kongenzen  
 Das Material ist FREI VON Quecksilberbelastung, WELDING & Schweißtemperaturen.  
 Wir bestätigen, dass Material für radioaktive Kontamination wurde in Übereinstimmung mit § 29 des deutschen Gesetzes Emission und dem Grenzwert von 0,1 Bq / g nicht überschritten werden getestet.  
 Beschleunigt, dass der oben beschriebene Material wurde getestet und entspricht den ORDER / AUFTRAG UND Indischer Herkunft.

MANUFACTURER'S SYMBOL		INSPECTOR STAMP	
		WORKS INSPECTOR	
		K R K MURTHY	

**Customer:** Kystdesign AS

Page 1 av 1

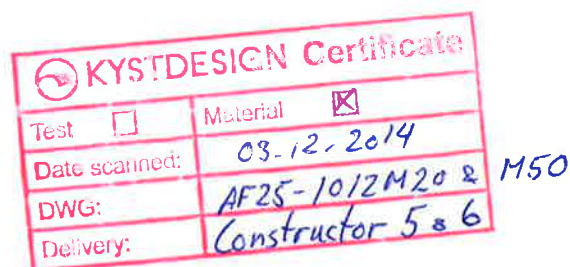
**Customer PO:** 14731

**Date:** 11.11.2014

**SMV Order No:** 20605

**Description:** Constructor ROV Rammer 2 Stk Nr 05, 06

SMV S/N	Reference	Description	Stock No	Charge No
20605-1-1	AF25-1012M50	<b>FRAME Lower section Constructor</b> AL PL 6082-T651 20X1270X2520MM AL PL 6082-T651 8X1270X2520MM AL U-PROF 6082-T6 50X100X50/8X6X8MM A 50	10799 11099 11059	918913 84151A4 HA1890194
20605-2-1	AF25-1012M20	<b>FRAME upper section</b> AL PL 6082 10X1520X3020MM AL PL 6082-T651 12X1520X3020MM	11138 11137	25636/01 24097/01
20605-4-1	AF25-1012M20-S5	<b>FRAME upper section dreiedeler</b> AL BOLT 6082-T6 180MM A 3000MM AL BOLT 6082-T6 50 MM A 5000 MM	11126 10827	1425H01 HA1875304





## INSPECTION CERTIFICATE № 14.7199

EN 10204 - 3.1



Certified by Russian Register

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68										
Consignee: ASTRUP AS					Quantity, pcs.: 1					
					Net Weight, kg.: 175					
Contract No.: Z14896-S					S.O. No.: Z14896					
P.O. No.: 1174343					Lot No.: 4					
Article No.: -					Package No.: 633273					
Description of Goods: Plates					Requirements on the Products:					
Grade of Product			Dimensions, inch/mm		Material conforms to quality of alloy: 6082 T651					
20,000X1270,0X2520,0			2520		Product conforms to all requirements of: EN485-1, EN485-2, EN485-3, EN573-3					
Mechanical Properties										
The Condition of Tested Standards	Lot No.	Cast No.	Quantity smple	Tensile Strength		Yield Strength (0,2% offset)		Elongation, %		Hardness, HB
				MPa		MPa				
				min	max	min	max	min	max	
Required				295.0	-	240.0	-	8.0	-	89.00
-	918913	12-2594	1	334.0	334.0	311.0	311.0	11.0	11.0	-
Chemical Composition, %										
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr
Required	0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.25	-	0.2	0.1	-
Contents	1.0	0.22-0.23	0.05	0.7	0.8	0.06	-	0.03	0.05	-
Element	Ti+Zr	Na	Tin Sn	Bismuth Bi	Plumbum Pb	Mn+Cr	Ca	Other Elements		Al
								Each	Total	
Required	-	-	-	-	-	-	-	0.05	0.15	remainder
Contents	-	-	-	-	-	-	-	0.05	0.15	remainder
Other Tests										
Method	Macro-structure	Micro-structure	UT	Electro-conductivity	SCF	Contents H2 of metals cm3/100gr				
Result	-	-	-	-	-	0.20				

On behalf:

OAO KUMZ

Date:

12.03.14

Inspector:

G.A.Ostanina

Inspection Department Engineer

N.V. Alekhina

Astrup AS 11/04/14 kim  
1174343/23 43495

AL PL 6082-T651 20X1270X2520MM



918913

Item #	Charge #	Lot	Piece ID	Cust.art.#	Art #	Qty	Description
1	84151A4				4619080	0	Alu.plate EN AW 6082 T6/T651

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Page 1

## Alcoa Europe

European Mill Products  
Alcoa Trasformazioni srl  
Stabilimento di Fusina  
Via dell' Elettronica 31  
30176 Malcontenta  
Loc. Fusina (Venezia)  
Italia  
Tel : 39 041 2917111  
Fax: 39 041 2917250



## INSPECTION CERTIFICATE

EN 10204 3.1

Ordernumber Alcoa 141790001  
Date 22/07/14  
Certificate number W14309850  
Shipment doc.ref. 007564

Your order nr	Your alloy	Your temper	Quantity	Your Art nr
W5042B	6082	T651	1736 kg	
Global specification				
PLATE 6082 T651 485.2 573.3 Mill finish				
Dimensions T x W x L 8,0000 x 1270,00 x 2520,0 mm				
Remarks				

Chemical composition											6082
											Others
Cast no	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Ni	%Zn	%Ti	%Each	Total
84151A4 0269A	1,01	0,45	0,057	0,47	0,95	0,058	0,010	0,036	0,021		
Limit Min.	0,70			0,40	0,60						
Max.	1,30	0,50	0,10	1,00	1,20	0,25		0,20	0,10	0,050	0,15

Mechanical properties			
Coil nr:	Rm	Rp0.2	A50
Pallet	N/mm2	N/mm2	%
0269A	300	273	12
0269A	302	273	13
0899371			
0899376			
Min.	300	255	9
Max.			

Approved by  
Roberto Signori  
Test Laboratory Supervisor

**Sapa Profiles Kft.**

H-8000 Székesfehérvár

Verseci u. 1-15.

Tel.: 36 22 531200

Fax: 36 22 531270

**sapa:**

Minőségi bizonyítvány Inspect certificate Abnahmeprüfzeugnis Certificat de Reception EN 10 204 - 3.1		DÁTUM 2014.05.16 DATE DÄTUM DATE		SZ. NO. 991408 NR. NO.						
VEVŐ REND.SZ. CUST. ORDERNO. AUFTRAGSNR. NO. DE COMMANDE		1191635 Lager Oslo		REND.SZ. 2014 40575 2 10 ORDERNO. AUFTRAGSNR. NO. DE COMMANDE						
VEVŐ REND.SZ. CUST. ORDERNO. AUFTRAGSNR. NO. DE COMMANDE		1191635 Lager Oslo		PROFILSZÁM 07307 - 888 SECTIONNO. PROFILNR. NO. DE PROFILÉ						
VEVŐ PROFILSZÁM CUST. SECTIONNO. PROFILNR. KUNDE NO. DE PROFILÉ DU CLIENT		U 50x100x50x8x6x8 45		SÜLY 2622 WEIGHT GEWICHT POIDS						
				SAJTOLÁSI DÁTUM 2014.05.15 PRESS DATE PRESSEDATE DATE DE FILAGE						
				ÖTVÖZET EN AW-6082 T6 EN 755 ALLOY LEGIERUNG ALLIAGE						
KÉMIAI ÖSSZETÉTEL / CHEMICAL COMPOSITION / CHEMISCHE ZUSAMMENSETZUNG / COMPOSITION CHIMIQUE										
BETÉT CHARGE	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Other	%Al
HA1890194	0,86	0,29	0,06	0,43	0,69	0,05	0,04	0,02	max 0,15	rest
SZABVÁNY Min	0,70	0,00	0,00	0,40	0,60	0,00	0,00	0,00		
NORM Max	1,30	0,50	0,10	1,00	1,20	0,25	0,20	0,10		
NORM										
MECHANIKAI TULAJDONSÁGOK / MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN / CARACTERISTIQUES MECHANIQUES										
PRÓBASZÁM SAMPLENO. PROBENNR. NO. D'ÉPROUVETTE	R <sub>m</sub> N/mm <sup>2</sup>	R <sub>p0,2</sub> N/mm <sup>2</sup>	A %	HB / W		Konduktivitás				
1375047	330	310	11,9							
1375048	331	311	11,5							
SZABVÁNY Min	310	260	10							
NORM										
NORM										
NORME										

Astrup AS 22/05/14 kim  
1191635/2 36AL U - PROF 6082 - T6  
50X100X50/8X6X8MM A 6000 MM

HA1890194

Igazoljuk, hogy a fenti anyagot megvizsgáltuk és megfelel a rendelés visszaigazolásában leírt feltételeknek.

We hereby certify, that the material described above has been tested and complies with the terms of the confirmation of order.

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Auftragsbestätigung entspricht.

Nous certifions que la livraison était vérifiée et est conforme aux stipulations de la confirmation de la commande.

Form Nr. 635/EXTR/EXTQAT-R:8-13/08.18

  
Széll Balázs  
Minőségirányítás vezető

Sapa Profile Kft. Székesfehérvár, Balázs Széll, Quality Manager




**Abnahmeprüfzeugnis 3.1 (EN 10204)**  
**Inspection certificate - mill certificate**
**Nr.: 85197091****05 / 6****Rev.: 0**

Seite / page:

1 von / of 2

Datum / date:

2014 08 20

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

<b>Auftraggeber / customer:</b> Alumeco A/S Naesbyvej 26 5000 ODENSE C DENMARK  <b>Warenempfänger / consignee:</b> Alumeco A/S Naesbyvej 26 5000 ODENSE C DENMARK	Bestell Nr. / order no.:	120241507
	Datum / date:	2014 05 07
	Auftragsbest. Nr. / order confirm no.:	675591
	Datum / date:	2014 05 07
	Lieferschein Nr. / delivery note:	85197091
	Datum / date:	2014 08 22

Produkt / product	Bedingungen / terms
Form / form: Platten gereckt Werkstoff / material: EN AW 6082 Zustand / temper: T651 Dim. / dim.: [mm]: 10,00x1520,0x3020,0	Technische Lieferbedingungen / techn. spec.: EN 485-2 : 2008 EN 485-3 : 2003 EN 573-3 : 2003 EN 602 : 2004  Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los/Teillos Lot/No./Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.
08	25636/01/00	01/0063516/4	EN AW 6082	6755910005
08	25636/01/00	01/0063516/4	EN AW 6082	6755910006
08	25636/01/00	01/0063516/4	EN AW 6082	6755910007
08	25636/01/00	01/0063516/4	EN AW 6082	6755910008
08	25636/01/00	01/0063516/4	EN AW 6082	6755910009
08	25636/01/00	01/0063516/4	EN AW 6082	6755910010
08	25636/01/00	01/0063516/4	EN AW 6082	6755910011
08	25636/01/00	01/0063516/4	EN AW 6082	6755910012

**Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))**

Guss Nr. / cast no.	material										
01/0063516/4	EN AW 6082	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Sonst Einzel	Sonst Summe
	spec. min.	0,7	-	-	0,40	0,6	-	-	-	-	-
	spec. max.	1,3	0,50	0,10	1,0	1,2	0,25	0,20	0,10	0,05	0,15
	actual	0,9	0,32	0,07	0,46	0,9	0,03	0,11	0,02	0,02	0,03


**Abnahmeprüfzeugnis 3.1 (EN 10204)**  
**Inspection certificate - mill certificate**
**Nr.: 85197091****05 / 6****Rev.: 0**

Seite / page:

2 von / of 2

Datum / date:

2014 08 20

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Zugprüfung LT / tensile test LT									
BNr/Los	Zustand	Richtung	Tests		Rm	Rp0.2	A50		
Lot/No.	temper	direction			[MPa]	[MPa]	[%]		
				spec.min.	300	255	9		
				spec.max.	-	-	-		
25636/01	T651	LT	3	from	333	288	17		
25636/01	T651	LT		to	342	296	18		

**Sonstige Prüfungen / other tests**

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

**Bemerkungen / notes**

CE

0036

11

EN AW 6082 T651

CPR Nr.: 0036-CPR-M-46-2011

DIN EN 15088: 2005

Verwendung für DIN EN 15088 Tabelle ZA.1 – Produkte, Verwendungszweck und System der Bescheinigung

/

0036

11

EN AW 6082 T651

CPR Nr.: 0036-CPR-M-46-2011

DIN EN 15088: 2005

use for DIN EN 15088 table ZA.1 – products, structural application and system of certification

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werksachverständiger / factory specialist	E-Mail / e-mail
Josef Klampfer	josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.


**Abnahmeprüfzeugnis 3.1 (EN 10204)**  
**Inspection certificate - mill certificate**
**Nr.: 85200034****02 / 2****Rev.: 0**

Seite / page:

1 von / of 2

Datum / date:

2014 07 15

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

<b>Auftraggeber / customer:</b> Alumeco A/S Naesbyvej 26 5000 ODENSE C DENMARK  <b>Warenempfänger / consignee:</b> Alumeco A/S Naesbyvej 26 5000 ODENSE C DENMARK	Bestell Nr. / order no.:	120238175
	Datum / date:	2014 04 01
	Auftragsbest. Nr. / order confirm no.:	673978
	Datum / date:	2014 04 01
	Lieferschein Nr. / delivery note:	85200034
	Datum / date:	2014 07 17

Produkt / product	Bedingungen / terms
Form / form: Platten gereckt Werkstoff / material: EN AW 6082 Zustand / temper: T651 Dim. / dim.: [mm]: 12,00x1520,0x3020,0	Technische Lieferbedingungen / techn. spec.: EN 485-2 : 2008 EN 485-3 : 2003 EN 573-3 : 2003 EN 602 : 2004  Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los/Teillos Lot/No./Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.
10	24097/01/00	01/0063348/4	EN AW 6082	6739780024
10	24097/01/00	01/0063348/4	EN AW 6082	6739780025
10	24097/01/00	01/0063348/4	EN AW 6082	6739780026

Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Sonst Einzel	Sonst Summe
01/0063348/4	EN AW 6082										
	spec. min.	0,7	-	-	0,40	0,6	-	-	-	-	-
	spec. max.	1,3	0,50	0,10	1,0	1,2	0,25	0,20	0,10	0,05	0,15
	actual	0,9	0,38	0,09	0,45	0,9	0,03	0,08	0,02	0,02	0,03

Zugprüfung LT / tensile test LT									
BNr/Los	Zustand	Richtung	Tests		Rm	Rp0.2	A50		
Lot/No.	temper	direction			[MPa]	[MPa]	[%]		
				spec.min.	300	255	9		
				spec.max.	-	-	-		
24097/01	T651	LT	3	from	320	284	16		
24097/01	T651	LT		to	325	289	16		



**Abnahmeprüfzeugnis 3.1 (EN 10204)**  
**Inspection certificate - mill certificate**

Nr.: 85200034

02 / 2

Rev.: 0

Seite / page:

2 von / of 2

Datum / date:

2014 07 15

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

**Sonstige Prüfungen / other tests**

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

**Bemerkungen / notes**

CE

Verwendung für Tragwerksanwendungen nach DIN EN 15088, Klasse I.

CPD Nr.: 0036-CPR-M-46-2011

Überprüft nach Verordnung (EU) 305/2011 durch die benannte Stelle:

TÜV SÜD Industrie Service GmbH

Leistungsnummer: EN AW 6082 T651

Kennnummer: 0036

/

structural application in aluminium alloys according to DIN EN 15088, class I

CPD Nr.: 0036-CPR-M-46-2011

according to the construction products regulation (EU) 305 / 2011 by the notified body:

TÜV SÜD Industrie Service GmbH

Declaration of performance: EN AW 6082 T651

ID-Number: 0036

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

**Werksachverständiger / factory specialist**

**E-Mail / e-mail**

Josef Klampfer

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.



25038 ROVATO (BS) Italy  
Via S. Andrea, 3  
Tel. 030 7725011  
Fax sections dept. 030 7701228  
Fax uff. comm. profil 030 7702847  
Fax bars dept.  
Fax uff. comm barre

## INSPECTION CERTIFICATE CERTIFICATO DI COLLAUDO

**ALUMINIUM SEMI-FINISHED EXTRUDED AND DRAWN PRODUCTS  
ESTRUSI E TRAFILATI DI ALLUMINIO**

According to: EN 10204 3.1  
Conforme a:

Customer Cliente	<b>ASTRUP A/S</b>	Your Order Vs. Ordine	<b>1207237</b>
Material Materiale	<b>BARRA TONDA ESTRUSA 180</b>	Conf.No. Nr.Conf.	<b>4628900001</b>
Alloy Lega		Batch Lotto	<b>1406230089</b>
Temper Stato		EN 755-3	
		EN AW-6082 EN 573-3	
		T6 EN 755-2	

### CHEMICAL ANALYSIS - ANALISI CHIMICA (%)

	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Pb		
Required min	0,700			0,400	0,600						
Prescritte max	1,300	0,500	0,100	1,000	1,200	0,200	0,100	0,250	0,050		
Found / Riscontrato											
Cast. No. Nr. Colata	1425H01	0,941	0,446	0,068	0,765	0,776	0,050	0,025	0,028	0,008	

### MECHANICAL PROPERTIES - CARATTERISTICHE MECCANICHE

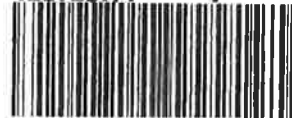
	Tensile strength Carico Unitario di rottura Rm (MPa)	Yield strength Carico Unitario di snervamento Rp0,2 (MPa)	Elongation Allungamento A (%)	Hardness Durezza HBW	
Required min	280,00	240,00	6,00		
Prescritte max					
Found / Riscontrato					
	330,98	294,44	9,80	120	

### REMARKS OF TEST INSPECTOR - DICHIARAZIONI DEL COLLAUDATORE

This product is conform to a.m. order - Il materiale testato e' conforme a quanto specificato in fase d'ordine  
This alloy complies with 2011/65/EU (RoHS II) and 2000/53/EC (ELV) directives  
Prodotto conforme alle direttive 2011/65/EU (RoHS II), 2000/53/EC (ELV)

Astrup AS 14/07/14 kim

1207237/1 1



AL BOLT 6082 - T6 180MM A 3006MM



1425H01

Quality System certified according to ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004  
Sistema Qualità certificato secondo ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004

MADE IN ITALY

Rovato martedì 8 luglio 2014

M0904.01B

Rev 10

Approved / Approvato

Quality Manager

Gianfranco CAZZAGO

<b>Sapa Profiles Kft.</b> H-8000 Székesfehérvár Verseci u. 1-15. Tel.: 36 22 531200 Fax: 36 22 531270	
---	---

Minőségi bizonyítvány Inspect certificate Abnahmeprüfzeugnis Certificat de Reception EN 10 204 - 3.1		DÁTUM 2014.03.03 DATE DÁTUM DATE	SZ. 974243 NO. NR. NO.							
VEVŐ REND.SZ. 1178277 Lager Oslo CUST. ORDERNO. AUFTRAGSNR. NO.DECOMMANDE DU CLIENT		REND.SZ. 2014 33924 1 10 ORDERNO. AUFTRAGSNR. NO.DE COMMANDE	SAJTOLÁSI DÁTUM PRESS DATE 2014.03.02 PRESSDATUM DATE DE FILAGE							
VEVŐ PROFILSZÁMA Round bar 50 45F CUST.SECTIONNO. PROFILNR. KUNDE NO.DE PROFILÉ DU CLIENT		PROFILSZÁM 40062 - 888 SECTIONNO. PROFILNR. Round bar 50 45F NO.DE PROFILÉ	SÜLY 1072 WEIGHT GEWICHT POIDS							
VEVŐ PROFILSZÁMA Round bar 50 45F CUST.SECTIONNO. PROFILNR. KUNDE NO.DE PROFILÉ DU CLIENT		ÖTVÖZET AlMgSi1 F31 DIN ALLOY LEGIERUNG ALLIAGE								
KÉMIAI ÖSSZETÉTEL / CHEMICAL COMPOSITION / CHEMISCHE ZUSAMMENSETZUNG / COMPOSITION CHIMIQUE										
BETÉT CHARGE	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Other	%Al
HAI875304	0,85	0,28	0,08	0,42	0,71	0,06	0,05	0,02	max 0,15	rest
SZABVÁNY Min	0,70	0,00	0,00	0,40	0,60	0,00	0,00	0,00		
NORM Max	1,30	0,50	0,10	1,00	1,20	0,25	0,20	0,10		
NORM										
NORME										
MECHANIKAI TULAJDONSÁGOK / MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN / CARACTERISTIQUES MECHANIQUES										
PRÓBASZÁM SAMPLENO. PROBENR. NO.D'ÉPROUVETTE	R <sub>m</sub> N/mm <sup>2</sup>	R <sub>p0,2</sub> N/mm <sup>2</sup>	A %	HB / W	Konduktivitás					
1354698	321	297	14							
SZABVÁNY Min	310	260	10							
NORM										
NORM										
NORME										

Astrup AS 13/03/14 21 km  
1178277/1


AL BOLT 6082 - T6 50MM A 5000MM



HAI875304

Igazoljuk, hogy a fenti anyagot megvizsgáltuk és megfelel a rendelés visszaigazolásában leírt feltételeknek.

We hereby certify, that the material described above has been tested and complies with the terms of the confirmation of order.

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Auftragsbestätigung entspricht.


Nous certifions que la livraison était vérifiée et est conforme aux stipulations de la confirmation de la commande.

Form Nr.635/EXT/EXTQAT-R-8-13/09.18

Szel Balázs  
Minőségirányítás vezető

Sapa Profile Kft.Székesfehérvár, Balázs Szel, Quality Manager



 <b>ArcelorMittal</b> INDUSTRIEL CREUSOT		CERTIF DE CONTROLE INSPECTION TEST CERTIFICATE ABNAHMEZEUGNIS		ANALYSE CHEMICAL ANALYSIS ANALYSE		ESSAIS NIQUES MECHANICAL TESTS MECHANISCHE VERSUCHE		TOLE Plate Ble X 33789 1	
		ORGANISME DE CONTROLE Inspection Organization Abnahmegesellschaft		USINE CERT. EN10204/3.1		N° COULEE Heat Schmelze 16			
TOLE - PLATE - BLECH N° de Cde INDUSTRIEL 11 1307435 02C		CLIENT Customer Besteller LCMVIGH-MUIER		N° Cde client P.O. N° Kundenbestellr 9900051590/05 NOR201		COULEE INOX SS Heat - Schmelze 16		Qualité 422 T1650	
DIMENSION Size - Abmessungen 02 1 20,00 2000 6000 1900		N° Nb Epaisseur Thickness Dicke 17 18 19		Largeur Width Breite 20		Longueur Length Länge 21		Masse Weight Gewicht 22	
ELEMENTS Bestandteile C 42 SI 43 MN 44 P 45 S 46 CR 47 MO 48 NI 49 N2 50 51 52 53 54 55		IMPOSE COUPE Ladle Requirements Sollwert für Schmelze M 0,06 0,70 01,50 0,040 0,015 17,00 01,50 06,00		OBTENU COULEE Ladle results - Istwert Schmelze 0,040 0,23 00,71 0,016 0,0003 15,50 00,87 05,2 0,033		ELABORATION - Melting process - Erschmelzungsverfahren ELECTRIQUE - Electric arc - Elektrot DEGAZE - Degassed - Entgast			
37 23 24 25 Mach. Emplac. DIR. Θ Mach. Location Dir. Richt. Masc. Entnah. Richt. 1 4PI *** TR +20		26 LIMITE ELASTIQUE Yield strength - Streckgrenze Imposé Re Requirements YS-S Sollwerte 10,2% >= 700 838		27 RESISTANCE Tensile strength - Zugfestigkeit Imposé Rm Requirements TS-Z Sollwerte 900/1000 995		28 ALLONGEMENT Elongation - Dehnung Imposé A % Requirements E % D Sollwerte 5,65 VS >= 16 22		UNITES MPA Units - Einheiten Imposé Outenu Actual - Istwerte Requirements Sollwerte 29 NUMERO DE LOT	
ESSAIS DE PLIAGE TENSION COMPRESSION - Outside and inside bend Fallversuch auf gezogene bzw. gedrückte Seite 61 180°		EPAISSEUR Thickness - Dicke		30 IMPOSE - Requirement - Sollwerte 31 32 33 34 TYPE DIR. O Individ. Moyenne Form Dir. Einzelw Average Typ Richt. Mittelw 6 KV TR -20 INFO INFO 6 KV TR +20 INFO INFO		35 VALEURS - RESILIENCES - Impact properties - Kerbschlagzähigkeitswerte Emplac. 1 2 3 Moyenne Location Entnah. 34 1 % 2 % 3 % Average Mittelw 4PE 108 106 110 108 4PE 164 174 168 169		36 UNITES Units - Einheiten Dimension 10,00X10,00 Size Abmessungen	
OBSERVATIONS Remarks Bemerkungen		56 WARMBEHANDLUNG: ABGESCHRECKT 1050°C ABKÜHLUNG LUFT. HEAT TREATMENT: SOLUTION ANNEALING 1050°C AIR COOLING. TRAITEMENT THERMIQUE: AUSTENITISATION 1050°C REFT AIR. HOT ROLLED, ANNEALED AND PICKLED		57 ANGELASSEN 560°C ABKÜHLUNG LUFT. TEMPERED 560°C FOLLOWED BY AIR COOLING. REVENU 560°C REFROIDISSEMENT AIR.		58 Le Chef du Service Contrôle Chief of Inspection Department Der Kontrollabteilungsleiter Le CREUSOT, le 07/11/2011		59 Visa Contrôle externe Inspection Authority Sachverständige	
Nous certifions que le contenu du rapport est correct et précis et que tous les résultats d'essais par rapport aux spécifications de la commande sont : We hereby certify that the contents of this certificate is correct and accurate, and that the test results, with respect to the specifications of the purchase order, are : Wir bescheinigen hiermit, daß der Inhalt des Berichtes richtig und genau ist und alle Prüfergebnisse mit den Vorschriften und den Bestellanforderungen übereinstimmen		60 <input checked="" type="checkbox"/> Conforme In conformity Erfüllt <input type="checkbox"/> Non conforme Not in conformity Nicht erfüllt		61 J. KOSPICZEWICZ		62 KYSTDESIGN Certificate Test <input type="checkbox"/> Material <input checked="" type="checkbox"/> Date scanned: 29.09.2014 DWG: AD16-1010M15-2 Delivery: 14 stk (7 Rows)			