



TO BS EN10204 3.1

VALLEN HOUSE LTD.
MANUFACTURERS OF STAINLESS, NICKEL ALLOY & ALUMINIUM PIPE FITTINGS

TEST CERTIFICATE N°: 0224

VALEN HOUSE, WESTGATE
ALDRIDGE, WALSALL
WEST MIDLANDS WS9 8DG

TEL: (01922) 454913 Fax: (01922) 451930

DATE:
01/08/05OUR REF:
3480ORDER N°:
250227E-mail: QA@valenfittings.co.uk
ISSUE TO :
HULSEN

25-6

CAST / HEAT N° 85136C4

ITEM	QUANT.	DESCRIPTION
1	1	355 mm x 6 mm 90° SRE
4	4	508 mm x 6 mm 90° LRE

CHEMICAL ELEMENTS

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn
ACT	0.15	0.27	0.011	0.62	4.62	0.12	0.0041	0.010
	Ti							
ACT	0.013							

MECHANICAL PROPERTIES

Yield	151 MPa	UTS	304 MPa	%ELONG	23	HARDNESS	
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HEAT TREATMENT 350/400°C + 20°C X T/25 x 1HR AIR COOL

HEAT TREATMENT REFERENCE P10792

MANUFACTURING SPEC
AD W6/1 & B361/2002 GRADE 5083-0
DIMS TO DIN 2605 WP-WX
STARTING MATERIAL SB209/EN485-5083-0SUPPLEMENTARY TESTS
100% RADIOGRAPHY-SATISFACTORY
FOR TENSILE TESTING SEE ROTECH
REPORT NO 52494 & 10223-02-SWWe hereby certify that the products
described herein have been
manufactured to the specification
indicated and all test results
shown herein are correct.

FOR VALEN Q.A. DEPT.

Abnahmeprüfzeugnis

Inspection Certificate EN 10204:2004-3-2
Certificat de Réception (EN 10204:1991-3.1C)
Certificato Collaudo Materiali

Besteller - Customer - Acheteur - Committente:
Valen Fittings Ltd
Valen House
Westgate, Aldridge
West Midlands, WS9 8DG

Hersteller - Manufacturer - Fabricant - Produttore:
Alcoa Europe Flat Rolled Products
Alcoa Trasformazioni
30030 Malcontenta
Italy

Prüfgegenstand - Article - Produit - Prodotto : Aluminium Plate

Prüfgrundlagen/Anforderungen - Technical requirements/Demand - Spécifications techniques/Exigences - Norma di controllo/Requisiti :

AD 2000 - Merkblatt W6/1 (Einzelgutachten)

Werkstoff - Material - Matière - Materiale : entsprechend - according to suivant- secondo

Ausgabe Edition - Edizione:

EN AW-5083 -O

Lieferzustand - State of delivery - Etat de livraison - Stato di fornitura: See Anlage 2

Erschmelzungsart - Melting process - Procédé d'élaboration - Procedimento di elaborazione : Anlage 2.

Kennzeichnung - Marking - Marquage - Punzonatura :
Material:
EN AW 5083 -O , Cast No, 85136C4
Plate No VF9240

Herstellerzeichen - Brand of the manufacturer - Alcoa
Marque du fabricant - Marchio del produttore :

Stempel des Sachverständigen - Inspectors stamp
Poinçon de l'expert - Punzone dell'ispettore.



Pos.- Nr./Item No. Poste-No No. pos	Stückzahl Number of Quote Numero pezzi	Gegenstand - Article Désignation du produit - Tipo di prodotto	Schmelze-Nr. Heat No. No Coulée No Colata	Probe-Nr. Test No. No d'éprouvette No di prova
01	01	2000 mm x 6000mm x 6,35mm thk	85136C4	VF9240

Zusätzliche Angaben - Additional remarks - Autres remarques - Osservazione:

Die gestellten Anforderungen sind lt. Anlagen erfüllt.

The requirements are fulfilled as per annex
Les conditions imposées sont satisfaites suivant annexes -
I risultati sono conformi ai requisiti richiesti come da allegati.

(Ort - Location - Lieu - Località)

LONDON

(Datum -Date - Data)

21/07/05

Prüfstelle für Druckgeräte
Notified Body for Pressure Equipment
SW Rail

TUV-UK DOC. No.:	FORM.: 0001	REV. No.:	3	DATE	04.11.04
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Ergebnis der Prüfungen
Test Results
Résultats des Essais
Risultati delle Prove

Anlage - Annex - Annexe - Allegato: 1

Prüf-Nr. 10223-02(SW)

Inspection No.

Certificat N°.

N° di collaudo

Teil

Part

Partie

Parte

Blatt-Nr. 1 of 1

Sheet-No.

Page N°.

Pag N°

Mechanische Prüfungen - Mechanical tests - Essais mécaniques - Prove meccaniche

ZUGVERSUCH / TENSILE TEST											HARDNESS HB					
Prüftart - Test type - Type d'essai - Tipo di prova: Probenart - Specimen size Type de l'éprouvette Tipo di provetta: Probenzustand - Specimen condition - Etat d'éprouvette - Stato della provetta:											1 = [J] Schlagarbeit - Energy of impact Energie de rupture - Energia di rottura 2 = [J/cm²] Kerbschlagzähigkeit-Impact Strength Résilience - Resilienza 3 = [%] Krist.Bruchanteil - Cryst. proportion Partie cristalline - Proporzione cristallina 4 = [mm10⁻³] Breitung - Expansion 5 = [%] Elargissement - Espansione 6 = Härte (Einheiten) - Hardness - Dureté - Durezza					
Probe-Nr. Test No. N°. d'éprouvette N° di prova.	Probenabmessung Dim. of specimen Dim. de l'éprouvette Dim. della provetta		Probenentnahme Specimen Prélevement Prelevamento		Prüf-temperatur Test temperature Température d'essai Temperatura di prova	Streck-/Dehngrenze Yieldpoint/Proof Stress Limite d'élasticité Lim. di snervamento	Zugfestigkeit Tensile strength Résistance à la traction Carico di rottura	Bruchdehnung Elongation Allongement Allungamento	Bruchminderung Reduction of area Striction/Strizione	Werte - Values - Valeurs - Valori 1 2 3 Σ/n						
Schmelze-Nr. t No. Coulée Colata N°	Dicke Thickness Epaisseur Spessore	Breite, Ø Width, Ø Largeur, Ø Largh, Ø	Ort - Location Lieu - Zona	Richtung Direction - Senso Lage - Position Posizione	°C	0.2 N/mm²	RM N/mm²	A Lo= 5.65 √so %	Z %	Bemerkung Remarks Remarques Osservazioni						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Reqs / Anforderungen Analysis % Max unless Stated S.i 0,40 Fe, 0,40 Cu, 0,10 Mn, 0,40 to 1,00 Mg, 4,0 to 4,9 Cr, 0,05 to 0,25 Zn, 0,25 Ti, 0,15.																
85136C4 (VF9240)	6,40	12,56	1	2T	3	20	154	299	24,5	37						
Notes			1) From 3x thk 2) L = Longitudinal / T = Transverse 3) Full Thickness 4) Besichtigung / Maßkontrolle / Visual and Dimensional check - ohne Beanstandung / Satisfactory 5) Chemische / Chemical Analysis: siehe Anlage 2 / See annex 2 6) Manufacturers 3.1. certificate shows in house tests only													

Ort - Location - Lieu - Località)

LONDON

(Datum Date - Data)

21/07/05

Prüfstelle für Druckgeräte -
Notified Body for Pressure Equipment
S Worrall

LABORATORY:- MOXLEY INDUSTRIAL CENTRE, WESTERN WAY,
ADDRESS WEDNESBURY, WEST MIDLANDS, WS10 7BG
TEL: 0121 505 4050 FAX: 0121 505 1115
www.rotechlabs.co.uk info@rotechlabs.co.uk

REGISTERED :- DARLASTON P.O. BOX 10, WEDNESBURY,
OFFICE WEST MIDLANDS, ENGLAND, WS10 8JD
TEL: 0121 526 3131 FAX: 0121 526 2869

Test Report

Our Ref: CTV/RKP Number 52494 Issue 1 Date 19.07.2005 Page 1 of 1

A/C No: V016

Tested For:-

Valen Fittings Ltd.
Valen House, Westgate,
Aldridge,
West Midlands WS9 8DG

PLATE TESTS

RELEVANT INFORMATION

Description: 6mm Thick Aluminium Plate No.3
Client: Hulsen
Cast No: 85136C4
Testing Specification: AD 2000-Merkblatt W6/1:2003 (Para 5.1)
Material Specification: EN AW 5083 - O
Inspection Authority: TUV (Mr. S. Worrall)
Note: GT384 Rev A
Purchase Order No: P37509/3480/117
Test Date: 19.07.2005

RESULTS

Tensile Test Ambient Temperature

Tested in accordance with ASTM BSEN 10002-1:2001

Ref	Specimen Size (mm)	Proof Stress (0.2Rp)(Mpa)	UTS (Mpa)	G.L.5.65√so (mm)	%El	% RA
Transverse Plate	12.56 x 6.40	154	299	50.5	24.5	37
Requirements:		125	275		17	30
		(Min)	(Min)		(Min)	(Min)

CONCLUSION

The tests carried out satisfied the requirements of AD 2000-Merkblatt W6/1:2003 (Para 5.1).

End of Report

REPORT COMPILED BY


R.K.PRATT

REPORT APPROVED BY


R.K.PRATT

Group Leader Mech Testing

TESTS MARKED "NOT UKAS ACCREDITED" IN THIS REPORT/CERTIFICATE ARE NOT INCLUDED IN THE UKAS ACCREDITATION SCHEDULE FOR OUR LABORATORY.
TESTS MARKED 'SC' HAVE BEEN SUBCONTRACTED.
OPINIONS AND INTERPRETATIONS EXPRESSED HEREIN ARE OUTSIDE THE SCOPE OF UKAS ACCREDITATION.
THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL
RESULTS IN THIS REPORT RELATE ONLY TO THE ITEMS TESTED



Alcoa Europe

Fiat Rolled Products
Alcoa Trasformazioni Srl
Stabilimento di Fusina
Via dell'Elettronica 31
30030 Malcontenta
(Venezia)
Italia
Tel: 39 041 2917111
Fax: 39 041 2917250

INSPECTION CERTIFICATE

EN 10204 3.1B

Metalweb Plc
18/22 Birch Road East, Wyrley
B4 7PS Wotton, Birmingham
United Kingdom

Order number Alcoa 502229001
Date 31/05/05
Certificate number W05220107
Shipment doc.ref. 005863

Vs.ordine nr. 10959	Your alloy 5083	Your temper 0	Quantity 3071 kg
Global specification			
SHATE 5083 0 485/515/573ASME			
Dimensions T*W*L 6,3500 x 2000,00 x 6000,0 mm			
Remarks			

Chemical composition										
										5083
Cast no		%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Ni	%Zn	Alto
85136C4 0901B		0,15	0,27	0,011	0,62	4,62	0,12	0,0041	0,010	0,013
Limit	Min.				0,40	4,00	0,050			
	Max.	0,40	0,40	0,10	1,00	4,90	0,25		0,25	0,15

Mechanical properties			
Coil nr:	Rm	Rp0.2	A50
Pallet	N/mm2	N/mm2	%
0901B	302	151	23
0901B	304	154	23
0478252			
0478253			
0478254			
Min.	276	125	16
Max.	345	200	

Approved by
R. Signori Test.Lab.Supervisor

VALEN
DATE: 22/6/05
ACCEPTED BY:
Q.No. P37355-3480
V.F. No. 9240
INSP. A.B. Bennett

Anlage 2 Page.....1.....of.....1.....
Prüf Nr...1.022.3-02 (su)

Alcoa Trasformazioni Srl - Sede Legale: 09010 Portofino (Cagliari) Zona Industriale Portofino - Società del Gruppo multinazionale Alcoa
Cap. Soc. € 2.204.000.000 versato per € 195.000.000 - C.F. e P. IVA 02040570921 - Registro Imposte di Cagliari 213330
We hereby certify that the material described above has been tested and found to comply with the terms of the confirmation of order.

Despatch No.: 61449 Date: 21/06/05 S/O No.: 60412 Cust Name: VALEN FITTINGS LTD
Parent: 45200 Child Batch No: 45200 Supplied by: metalweb plc

LABORATORY :- MOXLEY INDUSTRIAL CENTRE, WESTERN WAY,
ADDRESS WEDNESBURY, WEST MIDLANDS, WS10 7BG
TEL: 0121 505 4050 FAX: 0121 505 1115
www.rotechlabs.co.uk info@rotechlabs.co.uk

REGISTERED :- DARLASTON P.O. BOX 10, WEDNESBURY,
OFFICE WEST MIDLANDS, ENGLAND, WS10 8JD
TEL: 0121 526 3131 FAX: 0121 526 2869

Test Report

Our Ref: CTV/RKP Number 52494 Issue 1 Date 19.07.2005 Page 1 of 1

A/C No: V016

Tested For:-

Valen Fittings Ltd.
Valen House, Westgate,
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West Midlands WS9 8DG

PLATE TESTS

RELEVANT INFORMATION

Description: 6mm Thick Aluminium Plate No.3
Client: Hulsen
Cast No: 85136C4
Testing Specification: AD 2000-Merkblatt W6/1:2003 (Para 5.1)
Material Specification: EN AW 5083 - O
Inspection Authority: TUV (Mr. S. Worrall)
Note: GT384 Rev A
Purchase Order No: P37509/3480/117
Test Date: 19.07.2005

RESULTS

Tensile Test Ambient Temperature

Tested in accordance with ASTM BSEN 10002-1:2001

Ref	Specimen Size (mm)	Proof Stress (0.2Rp)(Mpa)	UTS (Mpa)	G.L.5.65 \sqrt{so} (mm)	%El	% RA
Transverse Plate	12.56 x 6.40	154	299	50.5	24.5	37
Requirements:		125 (Min)	275 (Min)		17 (Min)	30 (Min)

TUV
Witnessed
Reviewed
Signature

19/7/05
[Signature]

CONCLUSION

The tests carried out satisfied the requirements of AD 2000-Merkblatt W6/1:2003 (Para 5.1).

End of Report

REPORT COMPILED BY

[Signature]
R.K.PRATT

REPORT APPROVED BY

[Signature]
R.K.PRATT

Group Leader Mech Testing

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EUROSPECTION (NDT)

Report N°: A022552
Contract :S1080Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696

Date Of Test :25/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE

Customer Order N° : 3480/1 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film) Screens: N/AFFD: 760 mm OFD:8mm Density:2.5-3.0
IQI: 10 AL Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

1	355mm 90 S.R.E	W18	L1	A-B PORE	-ACC
				B-C PORE	-ACC
				C-D ACCEPTABLE	
1	355mm 90 S.R.E	W18	L2	A-B ACCEPTABLE	
				B-C PORES/TUNG.INC.	-ACC
2	355mm 90 S.R.E	W18	L1	A-B INCL. TUNGS.	-ACC
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
2	355mm 90 S.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
3	355mm 90 S.R.E	W18	L1	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
3	355mm 90 S.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
4	355mm 90 S.R.E	W18	L1	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
4	355mm 90 S.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	

RADIOGRAPHER: *[Signature]*APPROVED BY: *[Signature]*

INSPECTION AUTHORITY: _____

APPROVALS: I. ANSLOW B095S3621374

DATE: 26/07/05

EUROSPECTION (NDT)

Report N°: A022551
Contract :S1080Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696

Date Of Test :25/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE

Customer Order N° : 3480/3 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film)Screens: N/AFFD: 760 mm OFD:8mm Density:2.6-2.8
IQI: 10 AL Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

1	406mm 90 L.R.E	W18	L1	A-B ACCEPTABLE B-C INCL. TUNGS. C-D INCL. TUNGS. D-E ACCEPTABLE E-F PORE	-ACC -ACC -ACC
1	406mm 90 L.R.E	W18	L2	A-B ACCEPTABLE B-C PORE C-D ACCEPTABLE	-ACC
2	406mm 90 L.R.E	W18	L1	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE D-E ACCEPTABLE E-F ACCEPTABLE	
2	406mm 90 L.R.E	W18	L2	A-B INCL. TUNGS. B-C ACCEPTABLE C-D ACCEPTABLE	-ACC
3	406mm 90 L.R.E	W18	L1	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE D-E ACCEPTABLE E-F ACCEPTABLE	
3	406mm 90 L.R.E	W18	L2	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE	

RADIOGRAPHER: *[Signature]*APPROVED BY: *[Signature]*

INSPECTION AUTHORITY: _____

APPROVALS: I. ANSLOW B095S3621374

DATE: 26/07/05

EUROSPECTION (NDT)

Report N°: A022536
Contract :S1080

Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696

Date Of Test :23/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE
Customer Order N° : 3480/2 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film)Screens: N/AFFD: 760 mm OFD:8mm Density:2.5-3.0
IQI: ASTMA Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

1	406mm 90 S.R.E	W18	L1	A-B INCL. TUNGS.	-ACC
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
				D-E ACCEPTABLE	
1	406mm 90 S.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	

RADIOGRAPHER:

APPROVED BY:

INSPECTION AUTHORITY:

APPROVALS: I. ANSLOW B095S3621374

DATE: 23/07/05

EUROSPECTION (NDT)

Report N°: A022565
Contract :S1080Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696

Date Of Test :26/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE

Customer Order N° : 3480/4 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film)Screens: N/AFFD: 760 mm OFD:8mm Density:2.1-3.1
LQI: 10 AL Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

1	508mm 90 L.R.E	W18	L1	A-B INCL. TUNGS.	-ACC
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
				D-E ACCEPTABLE	
				E-F ACCEPTABLE	
				F-G PORES/TUNG.INC.	-ACC
1	508mm 90 L.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
	508mm 90 L.R.E	W18	L1	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D PORE	-ACC
				D-E ACCEPTABLE	
				E-F INCLUSIONS	-ACC
				F-G ACCEPTABLE	
2	508mm 90 L.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	

RADIOGRAPHER: *[Signature]*APPROVED BY: *[Signature]*

INSPECTION AUTHORITY: _____

APPROVALS: I. ANSLOW B095S3621374

DATE: 26/07/05

EUROSPECTION (NDT)

Report N°: A022574
Contract :S1080Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696Date Of Test :26/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE
Customer Order N° : 3480/4 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film)Screens: N/AFFD: 760 mm OFD:8mm Density:2.0-3.0
IQI: 10 AL Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

3	508mm 90 L.R.E	W18	L1	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE D-E PORE E-F PORE F-G ACCEPTABLE	-ACC -ACC
3	508mm 90 L.R.E	W18	L2	A-B PORE B-C PORE C-D ACCEPTABLE	-ACC -ACC
	508mm 90 L.R.E	W18	L1	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE D-E ACCEPTABLE E-F ACCEPTABLE F-G PORE	-ACC
4	508mm 90 L.R.E	W18	L2	A-B ACCEPTABLE B-C ACCEPTABLE C-D ACCEPTABLE	

RADIOGRAPHER: *[Signature]*APPROVED BY: *[Signature]*

INSPECTION AUTHORITY: _____

APPROVALS: I. ANSLOW B095S3621374

DATE: 26/07/05

EUROSPECTION (NDT)

Report N°: A022577
Contract :S1080

Martindale Ind. Est. Off Hawkes Green Lane
Cannock, Staffs. WS11 2XN. Tel: 01543 462696

Date Of Test :26/07/05 Customer : VALEN FITTINGS LIMITED Site : ALDRIDGE
Customer Order N° : 3480/4 Address : Westgate, Aldridge, West Midlands

RADIOGRAPHIC DETAILS

Src/Set:X-Ray EUX026 Process N°:RAD 01 R1063/A Thk:6 (2MM Reinforcement)
Kilovolts:55 MA/Curie Mins: 20 Source/Focal Spot Size: 2.6 x 2.7mm
Film: D4 (Single Film)Screens: N/AFFD: 760 mm OFD:8mm Density:2.4-2.9
QI: 10 AL Sensitivity: 1.7% Processing: AUTO STATUS: INITIAL

RADIOGRAPHIC TECHNIQUE: SWS1 BS EN1435 CLASS B

ACCEPTANCE STANDARD: HP 5/3 AD-MERKBLATT

INTERPRETATION:

5	508mm 90 L.R.E	W18	L1	A-B PORE	-ACC
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	
				D-E ACCEPTABLE	
				E-F ACCEPTABLE	
				F-G ACCEPTABLE	
5	508mm 90 L.R.E	W18	L2	A-B ACCEPTABLE	
				B-C ACCEPTABLE	
				C-D ACCEPTABLE	

RADIOGRAPHER: *Ian Anslow*

APPROVED BY: *Ian Anslow*

INSPECTION AUTHORITY: _____

APPROVALS: I. ANSLOW B095S3621374

DATE: 26/07/05