Barrett Constructional Steel Limited
282 Cutler Heights Lane
Dudley Hill
Bradford
West Yorkshire, BD4 9HU
Tel: 01724 290950 Fax: 01724 290966
www.barrettsteel.com

Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757210**
Material Code:	**EQUAL ANGLE 70MM X 70MM X 8MM**
Certificate Number:	**0005819**
Cast Number:	**134005**
Invoice Number:	

Material: EQUAL ANGLE 70MM X 70MM X 8MM - Certificate: 0005819 - Cast: 134005

TC 5819

ArcelorMittal Zaragoza, S.A.U.
ArcelorMittal Europe – Long Products
Avda. de José López Soriano, nº 100 (PTR)
Carretera de Torrecilla de Valmadrid, km. 1,95
Barrio de la Cartuja Baja
50720 ZARAGOZA-SPAIN.
TELEF. (976) 46 61 71 - FAX (976) 51 29 11

AENOR ER Empresa Registrada ER-0003/1993 | CE 07-0099 AMZA-2/04-CPR-13-1 EN 10025-1 | ArcelorMittal

web: www.ris.arcelormittal.net

DATE: **11/05/2016**

PRODUCTS

S 275 JR+M - EN 10025-2/2004

BUNDLE	SIZE (B11)	LENGTH (B12)	BARS (B10)	HEAT (B08)	WEIGHT (Kg) (REF.)
99839890024374	Rc-150x20	6,1	14	133144	2.056
99839890024458	Rc-150x20	6,1	14	133144	2.064
99839693010622	L-70x8	12,1	24	134005	2.340
99839888003043	Rc-130x10	6,1	32	133137	1.994
99839686069823	Rc-100x10	6,1	42	134016	2.010
99839686082474	Rc-100x12	6,1	36	134014	2.079
99839890023572	Rc-150x20	6,1	14	133144	2.062
99839888003330	Rc-130x10	6,1	32	133137	1.993
99839688064268	Rc-150x12	6,1	24	134024	2.072
99839686070057	Rc-100x10	6,1	42	134016	2.011
99839887012330	Rc-120x10	6,1	34	133131	1.967
99839887008558	Rc-120x10	6,1	34	133132	1.970

WEIGHT: **24.618 Kg.**

A02 EN 10204/3.1 **CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE** A03

S 275 JR+M - EN 10025-2/2004 (B01/B02/B03)

C70:E

MATERIAL SIZE (B11)	COLADA HEAT (B08)	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) C	Mn (C72)	Si (C73)	P (C74)	S (C75)	N (C76)	V (C77)	Cr (C78)	Cu	Ni	Mo							Cev
Rc-150x20	133144	,09	,54	,17	,017	,039	,010	,002	,108	,427	,153	,027							,24
Rc-150x20	133144	,09	,54	,17	,017	,039	,010	,002	,108	,427	,153	,027							,24
L-70x8	134005	,10	,53	,18	,016	,030	,011	,002	,093	,408	,207	,028							,26
Rc-130x10	133137	,12	,50	,19	,014	,032	,011	,002	,078	,385	,126	,026							,25
Rc-100x10	134016	,12	,51	,16	,012	,033	,012	,002	,108	,353	,115	,023							,26
Rc-100x12	134014	,12	,52	,20	,012	,016	,011	,002	,106	,338	,133	,026							,26
Rc-150x20	133144	,09	,54	,17	,017	,039	,010	,002	,108	,427	,153	,027							,24
Rc-130x10	133137	,12	,50	,19	,014	,032	,011	,002	,078	,385	,126	,026							,25
Rc-150x12	134024	,11	,51	,18	,013	,033	,010	,002	,096	,346	,128	,026							,25
Rc-100x10	134016	,12	,51	,16	,012	,033	,012	,002	,108	,353	,115	,023							,26
Rc-120x10	133131	,12	,51	,17	,017	,034	,011	,002	,091	,391	,115	,021							,26
Rc-120x10	133132	,11	,50	,16	,016	,029	,012	,002	,078	,397	,111	,019							,24

MATERIAL SIZE (B11)	COLADA HEAT (B08)	PROPIEDADES MECANICAS MECHANICAL PROPERTIES ReH MPa (C11)	Rm MPa (C12)	A% L0=5.65VSo (C13)	Doblado 180° (C50)	FLEXIÓN POR CHOQUE IMPACT TEST °C (C03)	KV300 (C40/41)	V1 j.	V2 j. (C42)	V3 j.	Media j. (C43)
Rc-150x20	133144	330	457	30,2							
Rc-150x20	133144	330	457	30,2							
L-70x8	134005	338	454	31,							
Rc-130x10	133137	315	449	29,2							
Rc-100x10	134016	333	447	30,2							
Rc-100x12	134014	334	449	29,2							
Rc-150x20	133144	330	457	30,2							
Rc-130x10	133137	315	449	29,2							
Rc-150x12	134024	333	447	31,1							
Rc-100x10	134016	333	447	30,2							
Rc-120x10	133131	315	447	30,3							

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Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757210**
Material Code:	**EQUAL ANGLE 70MM X 70MM X 8MM**
Certificate Number:	**0005819**
Cast Number:	**134005**
Invoice Number:	

ArcelorMittal Zaragoza, S.A.U.
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CE 07-0099 AMZA-2/04-CPR-13-1 EN 10025-1

ArcelorMittal

web: www.ris.arcelormittal.net

DATE: **11/05/2016**

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5.65VSo	Doblado 180º	ºC	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40N1	C42			C43
Rc-120x10	133132	315	449	29,2							

We hereby certify that the steels listed above has been successfully tested in accordance with the specification.

Head of Quality Department Z01

Merouane Lakehal

Material: EQUAL ANGLE 70MM X 70MM X 8MM - Certificate: 0005819 - Cast: 134005

Material: UNEQUAL ANGLE 125MM X 75MM X 10MM - Certificate: 0128753 - Cast: CM105956

CELSA STEEL UK
OFFICES: Build. 58, Castle Works, East Moors Road
CF24 5NN Cardiff (United Kingdom)

CELSA GROUP

CELSA MANUFACTURING UK

CARES QUALITY SYSTEMS ISO 9001 2008 — UKAS QUALITY MANAGEMENT 1100

0128753

CE
LRV ID N: 0038
06
Cert No: 0038/CPR/LRQ4002811/1
DOP: CELSAUK001 EN10025
Hot rolled structural steel products

INSPECTION CERTIFICATE
BS-EN 10204-2004, Type 3.1

Standard
BS-EN 10025-2004

Customer:
BARRETT STEEL LTD
Barrett House
CUTLER HEIGHTS LANE, 282
DUDLEY HILL
BD4 9HU BRADFORD
United Kingdom

Destination:
BARRETT STEEL LTD
Barrett House
CUTLER HEIGHTS LANE, 282
DUDLEY HILL
BD4 9HU BRADFORD
United Kingdom

Delivery number: 2550029357
Order number :15666295
Your order :b107819

MATERIAL Hot rolled structural steel products	CAST	C %	MN %	SI %	S %	P %	Cr %	N %	Ni %	Cu %	Mo %	V %	CE %	Reh MPA	Rm MPA	A 5.65 %	T °C	Res1 J	Res2 J	Res3 J	Res Av J
S275 JR+AR L100X100X8 L.6M	CM105806	0.10	0.53	0.15	0.023	0.017	0.098	0.009	0.14	0.48	0.026	0.001	0.253	324	438	40.3					
S275 JR+AR L100X100X8 L.6M	CM105806	0.10	0.53	0.15	0.023	0.017	0.098	0.009	0.14	0.48	0.026	0.001	0.253	317	452	43.2					
S275 JR+AR L100X100X8 L.6M	CM105806	0.10	0.53	0.15	0.023	0.017	0.098	0.009	0.14	0.48	0.026	0.001	0.253	311	444	42.8					
S275 JR+AR L70X70X10 L.6M	CM102106	0.11	0.58	0.15	0.027	0.024	0.081	0.011	0.12	0.41	0.023	0.000	0.259	318	468	37.1					
S275 JR+AR L70X70X10 L.6M	CM102106	0.11	0.58	0.15	0.027	0.024	0.081	0.011	0.12	0.41	0.023	0.000	0.259	322	468	37.1					
S 275 JR+AR L90X90X10 6m	CM103082	0.10	0.55	0.15	0.026	0.027	0.099	0.010	0.11	0.41	0.012	0.000	0.250	305	449	34.2					
S 275 JR+AR L90X90X10 6m	CM103082	0.10	0.55	0.15	0.026	0.027	0.099	0.010	0.11	0.41	0.012	0.000	0.250	298	434	35.1					
S 275 JR+AR L90X90X10 6m	CM103082	0.10	0.55	0.15	0.026	0.027	0.099	0.010	0.11	0.41	0.012	0.000	0.250	310	454	35.7					
S 275 JR+AR L90X90X10 6m	CM103082	0.10	0.55	0.15	0.026	0.027	0.099	0.010	0.11	0.41	0.012	0.000	0.250	307	452	340.4					

The materials has been evaluated and radiation is within national limits
Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.

Steel making process -
Electric arc

Certified that the material detailed hereon meets the requirements of the specified standard.
Cardiff, 24.05.2016

Stuart Thomas
Quality Manager

This is a True Copy of Original Test Certificate: - 0128753 - Page: 1 of 3

BARRETT Constructional Steel
Barrett Constructional Steel Limited
282 Cutler Heights Lane
Dudley Hill
Bradford
West Yorkshire, BD4 9HU
Tel: 01724 290950 Fax: 01724 290966
www.barrettsteel.com

Customer: ALPINE GROUP (1974) LIMITED
Load Number:
Customer Order Number: S3991/87763/IP
Advice Number: G757210
Material Code: UNEQUAL ANGLE 125MM X 75MM X 10MM
Certificate Number: 0128753
Cast Number: CM105956
Invoice Number:

Material: UNEQUAL ANGLE 125MM X 75MM X 10MM - Certificate: 0128753 - Cast: CM105956

CELSA STEEL UK
OFFICES: Build. 58, Castle Works, East Moors Road
CF24 5NN Cardiff (United Kingdom)

CELSA GROUP

CELSA MANUFACTURING UK

CARES QUALITY SYSTEMS ISO 9001 2008 — UKAS QUALITY MANAGEMENT 1100

CE
LRV ID N: 0038
06
Cert No: 0038/CPR/LRQ4002811/1
DOP: CELSAUK001 EN10025
Hot rolled structural steel products

INSPECTION CERTIFICATE
BS-EN 10204-2004, Type 3.1

Standard
BS-EN 10025-2004

Customer:
BARRETT STEEL LTD
Barrett House
CUTLER HEIGHTS LANE, 282
DUDLEY HILL
BD4 9HU BRADFORD
United Kingdom

Destination:
BARRETT STEEL LTD
Barrett House
CUTLER HEIGHTS LANE, 282
DUDLEY HILL
BD4 9HU BRADFORD
United Kingdom

Delivery number: 2550029357
Order number :15666295
Your order :b107819

MATERIAL Hot rolled structural steel products	CAST	C %	MN %	SI %	S %	P %	Cr %	N %	Ni %	Cu %	Mo %	V %	CE %	Reh MPA	Rm MPA	A 5.65 %	T °C	Res1 J	Res2 J	Res3 J	Res Av J
S 275 JR +AR 220X6 6m	CM105589	0.10	0.57	0.15	0.018	0.023	0.102	0.012	0.13	0.43	0.020	0.000	0.256	302	432	42.1					
S 275 JR +AR 220X6 6m	CM105589	0.10	0.57	0.15	0.018	0.023	0.102	0.012	0.13	0.43	0.020	0.000	0.256	304	434	42.5					
S 275 JR +AR 250X10 6m	CM105484	0.10	0.54	0.16	0.027	0.026	0.124	0.009	0.13	0.41	0.020	0.000	0.254	290	433	38.6					
S 275 JR +AR 250X10 6m	CM105484	0.10	0.54	0.16	0.027	0.026	0.124	0.009	0.13	0.41	0.020	0.000	0.254	296	430	39.2					
S 275 JR +AR 250X10 6m	CM105484	0.10	0.54	0.16	0.027	0.026	0.124	0.009	0.13	0.41	0.020	0.000	0.254	304	437	38.4					
S 275 JR +AR 250X10 6m	CM105484	0.10	0.54	0.16	0.027	0.026	0.124	0.009	0.13	0.41	0.020	0.000	0.254	310	438	37.0					
S 275 JR 250X6 L.6.00	CM105414	0.10	0.57	0.16	0.016	0.026	0.119	0.012	0.11	0.51	0.013	0.001	0.264	332	456	41.2					
S 275 JR 250X6 L.6.00	CM105414	0.10	0.57	0.16	0.016	0.026	0.119	0.012	0.11	0.51	0.013	0.001	0.264	315	449	41.5					
S 275 JR 250X6 L.6.00	CM105414	0.10	0.57	0.16	0.016	0.026	0.119	0.012	0.11	0.51	0.013	0.001	0.264	317	446	40.5					
S 275 JR 250X6 L.6.00	CM105414	0.10	0.57	0.16	0.016	0.026	0.119	0.012	0.11	0.51	0.013	0.001	0.264	312	450	41.5					

The materials has been evaluated and radiation is within national limits
Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.

Steel making process -
Electric arc

Certified that the material detailed hereon meets the requirements of the specified standard.
Cardiff, 24.05.2016

Stuart Thomas
Quality Manager

This is a True Copy of Original Test Certificate: - 0128753 - Page: 2 of 3

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DOP: CELSAUK001 EN10025
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United Kingdom

Delivery number: 2550029357
Order number :15666295
Your order :b107819

MATERIAL Hot rolled structural steel products	CAST	C %	MN %	SI %	S %	P %	Cr %	N %	Ni %	Cu %	Mo %	V %	CE %	Reh MPA	Rm MPA	A 5.65 %	T °C	Res1 J	Res2 J	Res3 J	Res Av J
S275JR+AR L125X75X10 L6m	CM105956	0.10	0.55	0.15	0.017	0.017	0.143	0.010	0.18	0.48	0.028	0.000	0.267	322	462	41.9					
S275JR+AR L125X75X10 L6m	CM105956	0.10	0.55	0.15	0.017	0.017	0.143	0.010	0.18	0.48	0.028	0.000	0.267	319	463	42.5					
S275JR+AR L125X75X10 L6m	CM105956	0.10	0.55	0.15	0.017	0.017	0.143	0.010	0.18	0.48	0.028	0.000	0.267	319	463	42.5					
S275JR+AR L125X75X10 L6m	CM105956	0.10	0.55	0.15	0.017	0.017	0.143	0.010	0.18	0.48	0.028	0.000	0.267	322	467	40.1					

The materials has been evaluated and radiation is within national limits
Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.

Steel making process -
Electric arc

Certified that the material detailed hereon meets the requirements of the specified standard.
Cardiff, 24.05.2016

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Quality Manager

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Customer: ALPINE GROUP (1974) LIMITED
Load Number:
Customer Order Number: S3991/87763/IP
Advice Number: G757210

Material Code: UNEQUAL ANGLE 125MM X 75MM X 10MM
Certificate Number: 0128753
Cast Number: CM105956
Invoice Number:

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West Yorkshire, BD4 9HU
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www.barrettsteel.com

Customer: ALPINE GROUP (1974) LIMITED
Load Number:
Customer Order Number: S3991/87763/IP
Advice Number: G757210

Material Code: UNEQUAL ANGLE 150MM X 90MM X 10MM
Certificate Number: 0016550
Cast Number: 631045
Invoice Number:

This is a True Copy of Original Test Certificate: - 0016550 - Page: 1 of 1

16550

ORIGINAL

J002107

DEMİRSAN HADDECİLİK SAN. ve TİC.A.Ş

MILL TEST CERTIFICATE

ACC. TO EN 10204/3.1 (as per DIN 50049 Certificate on material tests-3.1) & EN 10168

DOCUMENT FR-50
ENF. DATE : 09.05.2006
Rev. No: 03/ 19/03/2011
ISSUE DATE 08/03/2016
PAGE : 1/1

Head Office: Rihtim Caddesi Nemlizade Sokak Baysal Apartmani No.2 Kat.4 Kadikoy, Istanbul, Turkey
Customer: TO WHOM IT MAY CONCERN
Order No & Purchase No: ST 5238 / J002107/01
Descp of Goods: PRIME HOT ROLLED STEEL ON EN 10025-2 CONDITION OF DELIVERY AS ROLLED

DIMENSION CONTROL STANDARD EN 10056

S 355 J0 ACC TO EN 10025

TEST RESULTS

Description of Delivery				Mechanical Properties			Product Analysis / Chemical Composition (%)										IMPACT TEST RESULT		
Heat No	Quality	Section Symbol	Length (m)	Tensile Test (N/mm2)	Yield Point (N/mm2)	Elongation Lo=5,65 So½ (%)	C	Mn	Si	S	P	Cu	Al	N	CEQ	Average	1. (J)	2. (J)	3. (J)
631045	S 355 J0	UEA 150X90X10	8.00	592	389	31	0.19	1.36	0.21	0.0089	0.0118	0.0287	0.0002	0.0029	0.43	37.66	35	41	37
136106	S 355 J0	UEA 200X100X10	8.00	532	370	31	0.17	1.38	0.04	0.0038	0.0230	0.1380	0.0215	0.0024	0.42	39.66	37	42	40
373206	S 355 J0	UEA 200X100X10	12.20	550	368	33	0.18	1.30	0.22	0.0025	0.0157	0.1310	0.0227	0.0005	0.41	36.00	34	36	36
372203	S 355 J0	UEA 200X100X10	12.20	545	383	32	0.17	1.25	0.08	0.0047	0.0199	0.1160	0.0228	0.0104	0.40	40.33	41	41	39
374105	S 355 J0	UEA 200X100X12	12.20	529	364	31	0.19	1.34	0.22	0.0219	0.0224	0.0602	0.0034	0.0104	0.43	38.33	39	42	34
592205	S 355 J0	UEA 200X100X15	12.20	533	374	32	0.20	1.31	0.21	0.0041	0.0112	0.0622	0.0228	0.0055	0.43	37.00	40	36	35
375103	S 355 J0	UEA 200X150X15	12.20	551	374	32	0.15	1.38	0.03	0.0045	0.0172	0.0295	0.0277	0.0067	0.40	35.00	34	33	38

NOTES :

CEQ=C+Mn/6+ (Cr+Mo+V)/5+(Ni+Cu)/15
CHEMICAL AND MECHANICAL VALUES ARE SUITABLE FOR CONSTRUCTION BEAMS
CE MARKING FPC CERTIFICATE NUMBER: 2344 - CPD - 0003

CE MARKING
CE
2344

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR BY THE ABOVE ORDER

PRODUCTION PLANNING & QUALITY GUARANTEE CHIEF
Erkan ÖZKAN

SIGN

Material: UNEQUAL ANGLE 150MM X 90MM X 10MM - Certificate: 0016550 - Cast: 631045