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:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0018173**
Cast Number:	**360245**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0018173 - Page: 1 of 2

Material: P.F. CHANNEL 200MM X 75MM X 23KGM - Certificate: 0018173 - Cast: 360245

A01 18172, 18173,
ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-29336

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL BERGARA C/IBARRA, 6 20570 BERGARA (Guipúzcoa) TELEF. (943) 76.19.40 - FAX (943) 765243		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**ICELANDICA HAV**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P600700	**E-48540/1100444109**	**J002619/01**	**20/05/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal embarque en bodega**							
U BEAMS 178x102x19	**9,5**	**3**	**18**	**54**	**3249**	**9.747**	**562858**
PF CHANNEL 200x75x23	**14**	**2**	**12**	**24**	**3931**	**7.862**	**354629,360242**
PF CHANNEL 200x75x23	**15,5**	**3**	**12**	**36**	**4352**	**13.056**	**360245**
U BEAMS 178x102x19	**6,1**	**4**	**18**	**72**	**2086**	**8.344**	**354670,562846**
U BEAMS 178x102x19	**15,5**	**2**	**16**	**32**	**4712**	**9.424**	**562845,562846**
U BEAMS 203x102x23	**8**	**6**	**18**	**108**	**3326**	**19.956**	**360081,559879**
U BEAMS 203x102x23	**9,5**	**3**	**18**	**54**	**3950**	**11.850**	**562700**
U BEAMS 203x102x23	**11**	**2**	**18**	**36**	**4574**	**9.148**	**360082**

TOTAL BUNDLES **25** TOTAL WEIGHT **89.387 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034, EN 10.279

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
PFC-200x75x23	354629	,10	1,09	,17	,015	,016	,012	,045	,168	,338	,137	,030	,000						,36
PFC-200x75x23	360242	,10	1,08	,19	,015	,010	,012	,045	,137	,356	,178	,040	,000						,36
PFC-200x75x23	360245	,09	1,04	,19	,018	,012	,012	,045	,203	,419	,178	,039	,001						,36
UB-178x102x19	354670	,14	,72	,18	,021	,012	,012	,032	,171	,319	,125	,028	,000						,34
UB-178x102x19	562845	,08	,71	,20	,023	,019	,009	,043	,120	,360	,130	,036	,002						,27
UB-178x102x19	562846	,10	,69	,19	,020	,019	,008	,043	,130	,380	,130	,036	,001						,29
UB-178x102x19	562858	,09	,71	,18	,017	,024	,009	,044	,100	,400	,150	,025	,003						,28
UB-203x102x23	360081	,11	1,06	,18	,007	,012	,011	,042	,078	,232	,105	,025	,000						,34
UB-203x102x23	360082	,14	,83	,17	,008	,013	,011	,032	,096	,218	,113	,029	,001						,33
UB-203x102x23	559879	,11	,74	,19	,013	,021	,010	,046	,110	,300	,430	,067	,003						,33

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Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0018173**
Cast Number:	**360245**
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A01

ArcelorMittal Gipuzkoa, S.L.U.
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CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-29336

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-203x102x23	562700	,12	,69	,17	,015	,018	,008	,043	,170	,430	,300	,047	,003						,34

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41		C42		C43
PFC-200x75x23	354629	395	526	32,4		0°	10	204	157	96	152
PFC-200x75x23	360242	394	527	30,1		0°	10	145	171	180	165
PFC-200x75x23	360245	381	517	33,		0°	10	167	176	188	177
UB-178x102x19	354670	414	545	32,5		0°	5	79	99	73	84
UB-178x102x19	562845	409	539	31,2		0°	5	41	44	41	42
UB-178x102x19	562846	391	498	32,9		0°	5	61	49	70	60
UB-178x102x19	562858	395	505	30,7		0°	5	46	50	53	50
UB-203x102x23	360081	387	495	34,5		0°	5	88	87	80	85
UB-203x102x23	360082	380	505	33,2		0°	7,5	116	111	121	116
UB-203x102x23	559879	401	532	30,6		0°	7,5	99	108	121	109
UB-203x102x23	562700	368	483	34,6		0°	7,5	115	142	151	136

11 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMB
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

Amagoia Lekuona

Barrett Constructional Steel Limited
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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:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0013862**
Cast Number:	**354627**
Invoice Number:	

Material: P.F. CHANNEL 200MM X 75MM X 23KGM - Certificate: 0013862 - Cast: 354627

13862

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-28292

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S **Grove Wharf DN15-8UA** **Gunness (S. Humberside)** **GRAN BRETAÑA**	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL BERGARA C/IBARRA, 6 20570 BERGARA (Guipúzcoa) TELEF. (943) 76.19.40 - FAX (943) 765243		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**LADY ANNEKE**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-46723/1100420329**	**J002006**	**10/12/2015**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal embarque en bodega**							
PF CHANNEL 200x75x23	**11**	**17**	**20**	**340**	**5148**	**87.516**	**354626,354627**
PF CHANNEL 200x75x23	**11**	**1**	**12**	**12**	**3089**	**3.089**	**354627**
PF CHANNEL 200x75x23	**12,2**	**22**	**16**	**352**	**4568**	**100.496**	**354620,354621,354622, 354623**

TOTAL BUNDLES **40** TOTAL WEIGHT **191.101 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.279

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb					Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78									
PFC-200x75x23	354620	,11	1,06	,18	,012	,006	,011	,043	,131	,304	,095	,025	,000					,35
PFC-200x75x23	354621	,11	1,04	,19	,010	,013	,012	,045	,084	,329	,103	,022	,000					,34
PFC-200x75x23	354622	,12	1,08	,18	,008	,013	,012	,045	,099	,375	,138	,029	,000					,37
PFC-200x75x23	354623	,11	1,05	,16	,012	,014	,011	,043	,123	,310	,121	,024	,000					,36
PFC-200x75x23	354626	,10	1,06	,16	,014	,020	,011	,043	,121	,318	,115	,024	,000					,35
PFC-200x75x23	354627	,11	1,04	,17	,025	,012	,012	,043	,169	,370	,112	,019	,000					,36

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	C40/41	C42			C43
PFC-200x75x23	354620	384	512	32,6		0º	10	179	166	206	184
PFC-200x75x23	354621	391	516	32,9		0º	7,5	217	194	220	210
PFC-200x75x23	354622	393	527	31,8		0º	7,5	264	186	200	217
PFC-200x75x23	354623	376	503	31,9		0º	7,5	235	219	251	235
PFC-200x75x23	354626	384	503	32,3		0º	7,5	247	193	272	237
PFC-200x75x23	354627	411	540	30,9		0º	7,5	137	149	219	168

Barrett Constructional Steel Limited
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Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0013862**
Cast Number:	**354627**
Invoice Number:	

Material: P.F. CHANNEL 200MM X 75MM X 23KGM - Certificate: 0013862 - Cast: 354627

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-28292

Responsable del Departamento de Calidad Z01

Amagoia Lekuona

6 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación

B06: Marca AMB
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Barrett Constructional Steel Limited
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www.barrettsteel.com

Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0016820**
Cast Number:	**360583**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0016820 - Page: 1 of 2

Material: P.F. CHANNEL 200MM X 75MM X 23KGM - Certificate: 0016820 - Cast: 360583

10520

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
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CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-28989

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL BERGARA C/IBARRA, 6 20570 BERGARA (Guipúzcoa) TELEF. (943) 76.19.40 - FAX (943) 765243		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**OSTENAU**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-47928/1100436969**	**J002377**	**31/03/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE							
Instrucciones de carga: carga con alma horizontal embarque en bodega							
PF CHANNEL 200x75x23	9,5	6	20	120	4446	26.676	360583
PF CHANNEL 200x75x23	12,2	1	15	15	4282	4.282	360584
PF CHANNEL 200x75x23	12,2	32	16	512	4568	146.176	360706,360707
PF CHANNEL 200x75x23	14	7	12	84	3931	27.517	360711
PF CHANNEL 200x75x23	15,5	14	12	168	4352	60.928	360718,360719
	TOTAL BUNDLES	60		TOTAL WEIGHT		265.579 Kg.	

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.279

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B11	C71	C72	C73	C74	C75	C76	C77	C78										
PFC-200x75x23	360583	,11	1,04	,16	,009	,011	,012	,044	,080	,277	,132	,033	,001						,34
PFC-200x75x23	360584	,11	1,06	,18	,008	,013	,012	,043	,075	,299	,151	,028	,000						,34
PFC-200x75x23	360706	,11	1,05	,18	,012	,010	,011	,043	,061	,355	,127	,027	,000						,34
PFC-200x75x23	360707	,11	1,03	,16	,010	,015	,011	,042	,073	,351	,125	,032	,000						,34
PFC-200x75x23	360711	,10	1,08	,17	,013	,008	,011	,045	,117	,376	,167	,027	,000						,35
PFC-200x75x23	360718	,12	1,03	,17	,012	,013	,012	,044	,061	,384	,144	,027	,000						,35
PFC-200x75x23	360719	,13	1,04	,18	,014	,015	,011	,047	,069	,367	,151	,027	,000						,37

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	B11	C11	C12	C13	C90	C03	C40/41		C42		C43
PFC-200x75x23	360583	396	515	32,5		0º	10	43	113	58	71
PFC-200x75x23	360584	396	525	29,9		0º	10	193	180	174	182
PFC-200x75x23	360706	381	509	34,3		0º	10	169	179	186	178

Barrett Constructional Steel Limited
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Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0016820**
Cast Number:	**360583**
Invoice Number:	

A01

ArcelorMittal Gipuzkoa, S.L.U.
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AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-28989

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	B32	C11	C12	C13	C50	C03	C40/41	C42			C43
PFC-200x75x23	360707	375	509	29,8		0º	10	195	171	202	189
PFC-200x75x23	360711	391	515	32,2		0º	10	205	202	190	199
PFC-200x75x23	360718	418	544	29,8		0º	10	148	141	147	145
PFC-200x75x23	360719	400	526	31,3		0º	10	158	143	150	150

7 análisis

Responsable del Departamento de Calidad ZO

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación

B06: Marca AMB
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Amagoia Lekuona

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Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0018179**
Cast Number:	**354629**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0018179 - Page: 1 of 2

Material: P.F. CHANNEL 200MM X 75MM X 23KGM - Certificate: 0018179 - Cast: 354629

A01 18172, 18173, 18174, 18175, 18176

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
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20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80 50 00 - FAX (943) 88 04 04

18177, 18178, 18179

CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-29336

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL BERGARA C/IBARRA, 6 20570 BERGARA (Guipúzcoa) TELEF. (943) 76.19.40 - FAX (943) 765243		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**ICELANDICA HAV**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P600700	**E-48540/1100444109**	**J002619/01**	**20/05/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal embarque en bodega**							
U BEAMS 178x102x19	**9,5**	**3**	**18**	**54**	**3249**	**9.747**	**562858**
PF CHANNEL 200x75x23	**14**	**2**	**12**	**24**	**3931**	**7.862**	**354629,360242**
PF CHANNEL 200x75x23	**15,5**	**3**	**12**	**36**	**4352**	**13.056**	**360245**
U BEAMS 178x102x19	**6,1**	**4**	**18**	**72**	**2086**	**8.344**	**354670,562846**
U BEAMS 178x102x19	**15,5**	**2**	**16**	**32**	**4712**	**9.424**	**562845,562846**
U BEAMS 203x102x23	**8**	**6**	**18**	**108**	**3326**	**19.956**	**360081,559879**
U BEAMS 203x102x23	**9,5**	**3**	**18**	**54**	**3950**	**11.850**	**562700**
U BEAMS 203x102x23	**11**	**2**	**18**	**36**	**4574**	**9.148**	**360082**

TOTAL BUNDLES **25** TOTAL WEIGHT **89.387 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034, EN 10.279

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
PFC-200x75x23	354629	,10	1,09	,17	,015	,016	,012	,045	,168	,338	,137	,030	,000						,36
PFC-200x75x23	360242	,10	1,08	,19	,015	,010	,012	,045	,137	,356	,178	,040	,000						,36
PFC-200x75x23	360245	,09	1,04	,19	,018	,012	,012	,045	,203	,419	,178	,039	,001						,36
UB-178x102x19	354670	,14	,72	,18	,021	,012	,012	,032	,171	,319	,125	,028	,000						,34
UB-178x102x19	562845	,08	,71	,20	,023	,019	,009	,043	,120	,360	,130	,036	,002						,27
UB-178x102x19	562846	,10	,69	,19	,020	,019	,008	,043	,130	,380	,130	,036	,001						,29
UB-178x102x19	562858	,09	,71	,18	,017	,024	,009	,044	,100	,400	,150	,025	,003						,28
UB-203x102x23	360081	,11	1,06	,18	,007	,012	,011	,042	,078	,232	,105	,025	,000						,34
UB-203x102x23	360082	,14	,83	,17	,008	,013	,011	,032	,096	,218	,113	,029	,001						,33
UB-203x102x23	559879	,11	,74	,19	,013	,021	,010	,046	,110	,300	,430	,067	,003						,33

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:	**G757198**
Material Code:	**P.F. CHANNEL 200MM X 75MM X 23KGM**
Certificate Number:	**0018179**
Cast Number:	**354629**
Invoice Number:	

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMBE-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0262/1994

ArcelorMittal

MILL TEST CERTIFICATE

BER P-29336

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-203x102x23	562700	,12	,69	,17	,015	,018	,008	,043	,170	,430	,300	,047	,003						,34

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	C40/41		C42		C43
PFC-200x75x23	354629	395	526	32,4		0º	10	204	157	96	152
PFC-200x75x23	360242	394	527	30,1		0º	10	145	171	180	165
PFC-200x75x23	360245	381	517	33,		0º	10	167	176	188	177
UB-178x102x19	354670	414	545	32,5		0º	5	79	99	73	84
UB-178x102x19	562845	409	539	31,2		0º	5	41	44	41	42
UB-178x102x19	562846	391	498	32,9		0º	5	61	49	70	60
UB-178x102x19	562858	395	505	30,7		0º	5	46	50	53	50
UB-203x102x23	360081	387	495	34,5		0º	5	88	87	80	85
UB-203x102x23	360082	380	505	33,2		0º	7,5	116	111	121	116
UB-203x102x23	559879	401	532	30,6		0º	7,5	99	108	121	109
UB-203x102x23	562700	368	483	34,6		0º	7,5	115	142	151	136

11 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación

B06: Marca AMB
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

Amagoia Lekuona

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 102 X 22**
Certificate Number:	**0016116**
Cast Number:	**163659**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 102 X 22 - Certificate: 0016116 - Cast: 163659

16115, 16116,

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
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TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-48728

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**LADY ALEXANDRA**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-53968/1100424184**	**J002052**	**11/03/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 254x102x22	**9,5**	**5**	**20**	**100**	**4180**	**20.900**	**163658,163659**
U BEAMS 254x102x22	**11**	**3**	**20**	**60**	**4840**	**14.520**	**163659**
U BEAMS 254x102x25	**11**	**2**	**18**	**36**	**4990**	**9.980**	**163665**
U BEAMS 254x102x25	**12,5**	**3**	**16**	**48**	**5040**	**15.120**	**163664,163665**
U BEAMS 254x102x25	**15,5**	**3**	**12**	**36**	**4687**	**14.061**	**163665**
U BEAMS 254x102x28	**9,5**	**2**	**18**	**36**	**4839**	**9.678**	**163667**
U BEAMS 254x102x28	**9,5**	**1**	**14**	**14**	**3764**	**3.764**	**163667**
U BEAMS 254x102x28	**14**	**3**	**12**	**36**	**4754**	**14.262**	**163779**
U BEAMS 254x102x28	**15,5**	**3**	**10**	**30**	**4387**	**13.161**	**163667**

TOTAL BUNDLES **25** TOTAL WEIGHT **115.446 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B33	C71	C72	C73	C74	C75	C76	C77	C78										
UB-254x102x22	163658	,10	,72	,21	,014	,020	,009	,043	,090	,260	,160	,034	,003						,28
UB-254x102x22	163659	,09	,71	,21	,014	,020	,009	,043	,090	,270	,160	,034	,003						,27
UB-254x102x25	163664	,09	,70	,18	,012	,020	,008	,045	,090	,250	,140	,029	,003						,26
UB-254x102x25	163665	,09	,73	,20	,014	,021	,009	,045	,090	,240	,130	,025	,003						,27
UB-254x102x28	163667	,11	,77	,18	,016	,023	,009	,046	,100	,300	,140	,024	,003						,30
UB-254x102x28	163779	,08	,73	,17	,019	,023	,008	,040	,120	,320	,130	,026	,003						,26

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 102 X 22**
Certificate Number:	**0016116**
Cast Number:	**163659**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 102 X 22 - Certificate: 0016116 - Cast: 163659

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Gipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-48728

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	B03	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-254x102x22	163653	382	491	34,		0º	5	76	66	47	63
UB-254x102x22	163659	406	516	30,		0º	5	63	43	40	49
UB-254x102x25	163664	375	495	29,1		0º	5	80	69	101	83
UB-254x102x25	163665	400	502	35,7		0º	5	83	80	78	80
UB-254x102x28	163667	376	495	35,7		0º	7,5	113	101	93	102
UB-254x102x28	163779	364	482	31,9		0º	7,5	122	134	129	128

6 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

Lorenzo Zabala

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 102 X 22**
Certificate Number:	**0017951**
Cast Number:	**165068**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 102 X 22 - Certificate: 0017951 - Cast: 165068

A01 11962 17951

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
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TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49565

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**BRITANNICA HAV**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-55039/1100436997**	**J002388**	**03/05/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 254x102x22	**11**	**3**	**20**	**60**	**4840**	**14.520**	**165067,165068**
U BEAMS 254x102x22	**16,5**	**3**	**14**	**42**	**5082**	**15.246**	**165066**
U BEAMS 254x102x22	**18,3**	**5**	**12**	**60**	**4831**	**24.155**	**165068**
U BEAMS 254x102x28	**12,5**	**5**	**14**	**70**	**4953**	**24.765**	**165075**

TOTAL BUNDLES **16** TOTAL WEIGHT **78.686 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70 E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-254x102x22	165066	,09	,73	,22	,020	,022	,009	,047	,170	,280	,190	,056	,003						,30
UB-254x102x22	165067	,09	,72	,21	,018	,021	,009	,046	,180	,300	,200	,057	,003						,29
UB-254x102x22	165068	,08	,73	,20	,017	,022	,008	,045	,150	,240	,160	,040	,003						,27
UB-254x102x28	165075	,11	,72	,19	,017	,020	,009	,046	,180	,250	,150	,050	,003						,31

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C56	C03	C40/41		C42		C43
UB-254x102x22	165066	411	511	30,4		0°	5	82	79	79	80
UB-254x102x22	165067	412	500	32,6		0°	5	77	81	81	80
UB-254x102x22	165068	418	512	31,8		0°	5	80	80	81	80
UB-254x102x28	165075	408	523	31,3		0°	7,5	66	34	37	46

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 102 X 22**
Certificate Number:	**0017951**
Cast Number:	**165068**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 102 X 22 - Certificate: 0017951 - Cast: 165068

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49565

Responsable del Departamento de Calidad Z01

Lorenzo Zabala

4 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 146 X 31**
Certificate Number:	**0016886**
Cast Number:	**164253**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0016886 - Page: 1 of 3

Material: UNIVERSAL BEAM 254 X 146 X 31 - Certificate: 0016886 - Cast: 164253

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
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09-0099
AMOL-2/08-CPR-13-1
EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49049

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**OSTENAU**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-54604/1100432628**	**J002232**	**31/03/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE							
Instrucciones de carga: carga con alma horizontal							
U BEAMS 254x146x31	12,5	29	12	348	4665	135.285	164248,164249,164250, 164251,164252
U BEAMS 254x146x31	13	5	12	60	4852	24.260	164253,164254
U BEAMS 254x146x31	14	23	10	230	4354	100.142	164246,164247,164248
U BEAMS 254x146x31	15,5	31	10	310	4821	149.451	164257,164374,164378, 164379,164384
U BEAMS 254x146x31	16,5	10	10	100	5132	51.320	164251,164252
U BEAMS 254x146x31	17,5	11	8	88	4354	47.894	164383,164384
U BEAMS 254x146x37	11	5	12	60	4884	24.420	164241,164245
U BEAMS 254x146x37	12,5	30	10	300	4625	138.750	164241,164242,164245
U BEAMS 254x146x37	14	10	10	100	5180	51.800	164238,164239,164240
U BEAMS 254x146x37	18,3	6	6	36	4063	24.378	164246,164408
U BEAMS 254x146x43	11	5	10	50	4730	23.650	164233
U BEAMS 254x146x43	12,5	12	8	96	4300	51.600	164232,164417
U BEAMS 254x146x43	14	4	8	32	4816	19.264	164234
U BEAMS 254x146x43	15,5	6	6	36	3999	23.994	164232,164233,164417

TOTAL BUNDLES **187** TOTAL WEIGHT **866.208 Kg.**

A02 **EN 10204/3.1** A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
B11	B05	C71	C72	C73	C74	C75	C76	C77	C78										Cev
UB-254x146x31	164246	,10	,69	,19	,019	,022	,009	,045	,150	,360	,160	,036	,003						,29

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 146 X 31**
Certificate Number:	**0016886**
Cast Number:	**164253**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 146 X 31 - Certificate: 0016886 - Cast: 164253

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 FAX (943) 88.04.04

09-0099
AMOL-2/08-CPR-13-1
EN 10025-1:2004

AENOR ER Empresa Registrada
ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49049

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B2	C71	C72	C73	C74	C75	C76	C77	C78										
UB-254x146x31	164247	,10	,70	,21	,019	,020	,008	,045	,170	,410	,190	,035	,003						,30
UB-254x146x31	164248	,10	,69	,20	,021	,022	,008	,044	,150	,400	,180	,035	,003						,29
UB-254x146x31	164249	,11	,69	,20	,020	,020	,008	,046	,170	,340	,160	,031	,003						,31
UB-254x146x31	164250	,10	,70	,20	,018	,021	,008	,045	,150	,360	,170	,038	,003						,30
UB-254x146x31	164251	,10	,71	,17	,021	,021	,008	,045	,170	,400	,180	,037	,003						,31
UB-254x146x31	164252	,10	,70	,19	,019	,020	,009	,044	,140	,440	,170	,034	,003						,30
UB-254x146x31	164253	,09	,69	,20	,019	,022	,008	,043	,190	,310	,250	,040	,003						,30
UB-254x146x31	164254	,10	,70	,20	,017	,025	,009	,045	,130	,290	,230	,041	,003						,30
UB-254x146x31	164257	,09	,69	,18	,023	,025	,009	,043	,160	,390	,150	,025	,003						,29
UB-254x146x31	164374	,08	,72	,21	,017	,021	,009	,041	,240	,270	,220	,038	,003						,30
UB-254x146x31	164378	,09	,77	,18	,015	,020	,008	,058	,150	,290	,210	,030	,003						,30
UB-254x146x31	164379	,10	,66	,17	,019	,025	,009	,045	,140	,320	,200	,029	,004						,28
UB-254x146x31	164383	,09	,69	,19	,018	,020	,008	,045	,190	,300	,220	,038	,003						,30
UB-254x146x31	164384	,10	,73	,16	,021	,020	,009	,047	,190	,290	,200	,032	,003						,31
UB-254x146x37	164238	,10	,72	,21	,022	,020	,008	,048	,160	,310	,160	,043	,003						,30
UB-254x146x37	164239	,11	,70	,16	,017	,021	,008	,045	,150	,330	,180	,040	,003						,31
UB-254x146x37	164240	,10	,73	,19	,022	,021	,008	,051	,180	,390	,140	,028	,003						,31
UB-254x146x37	164241	,08	,73	,20	,019	,020	,009	,047	,130	,370	,130	,027	,003						,28
UB-254x146x37	164242	,11	,74	,19	,018	,020	,009	,045	,120	,350	,160	,033	,003						,30
UB-254x146x37	164245	,09	,70	,19	,015	,023	,008	,043	,120	,320	,160	,034	,003						,28
UB-254x146x37	164246	,10	,69	,19	,019	,022	,009	,045	,150	,360	,160	,036	,003						,29
UB-254x146x37	164408	,11	,73	,21	,017	,019	,008	,046	,150	,320	,180	,027	,003						,31
UB-254x146x43	164232	,09	,70	,19	,015	,020	,008	,044	,120	,290	,150	,029	,003						,27
UB-254x146x43	164233	,10	,70	,20	,015	,019	,009	,046	,140	,310	,150	,029	,003						,29
UB-254x146x43	164234	,09	,69	,19	,017	,020	,009	,044	,120	,320	,150	,029	,003						,28
UB-254x146x43	164417	,10	,78	,21	,018	,020	,009	,042	,220	,410	,180	,031	,003						,33

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180º	FLEXIÓN POR CHOQUE IMPACT TEST °C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B2	C11	C12	C13	C50	C03	C40/41		C42		C43
UB-254x146x31	164246	397	507	29,8		0º	5	78	82	51	70
UB-254x146x31	164247	391	522	32,5		0º	5	78	72	79	76
UB-254x146x31	164248	396	504	28,2		0º	5	83	81	80	81
UB-254x146x31	164249	384	512	30,1		0º	5	60	37	50	49
UB-254x146x31	164250	383	495	31,9		0º	5	56	56	84	65
UB-254x146x31	164251	401	505	33,9		0º	5	79	77	81	79
UB-254x146x31	164252	407	519	34,8		0º	5	55	86	109	83
UB-254x146x31	164253	404	497	33,1		0º	5	104	89	87	93
UB-254x146x31	164254	389	519	34,6		0º	5	90	86	94	90
UB-254x146x31	164257	407	512	30,6		0º	5	50	89	92	77
UB-254x146x31	164374	393	493	29,8		0º	5	87	64	104	85
UB-254x146x31	164378	365	485	29,2		0º	5	110	90	100	100
UB-254x146x31	164379	385	501	29,7		0º	5	64	83	69	72
UB-254x146x31	164383	387	495	33,4		0º	5	100	100	108	103
UB-254x146x31	164384	385	503	29,7		0º	5	75	61	78	71
UB-254x146x37	164238	395	490	31,2		0º	7,5	114	121	122	119
UB-254x146x37	164239	397	508	33,1		0º	7,5	111	110	125	115
UB-254x146x37	164240	397	512	31,1		0º	7,5	143	108	118	123

Barrett Constructional Steel Limited
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Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**UNIVERSAL BEAM 254 X 146 X 31**
Certificate Number:	**0016886**
Cast Number:	**164253**
Invoice Number:	

Material: UNIVERSAL BEAM 254 X 146 X 31 - Certificate: 0016886 - Cast: 164253

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
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AENOR ER
Empresa Registrada
ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49049

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B21	C11	C12	C13	C50	C03	C40/41		C42		C43
UB-254x146x37	164241	379	500	29,2		0º	7,5	90	45	63	66
UB-254x146x37	164242	398	512	31,6		0º	7,5	52	98	96	82
UB-254x146x37	164245	371	495	30,7		0º	7,5	78	87	115	93
UB-254x146x37	164246	396	502	31,2		0º	7,5	129	126	115	123
UB-254x146x37	164248	407	513	29,7		0º	7,5	95	34	39	56
UB-254x146x43	164232	372	487	36,4		0º	10	173	112	179	155
UB-254x146x43	164233	386	489	33,4		0º	10	56	63	42	54
UB-254x146x43	164234	368	486	34,		0º	10	98	83	110	97
UB-254x146x43	164237	370	492	31,5		0º	10	182	174	168	175

27 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

Lorenzo Zabala

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 356 X 127 X 39**
Certificate Number:	**0014553**
Cast Number:	**162345**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0014553 - Page: 1 of 1

Material: UNIVERSAL BEAM 356 X 127 X 39 - Certificate: 0014553 - Cast: 162345

14553

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-47947

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**PANDA**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-53685/1100421114**	**J002019**	**15/01/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 356x127x39	**15,5**	**5**	**8**	**40**	**4848**	**24.240**	**162344,162345**

TOTAL BUNDLES **5** TOTAL WEIGHT **24.240 Kg.**

A02 EN 10204/3.1

A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-356x127x39	162344	,10	,70	,22	,016	,022	,008	,043	,150	,300	,240	,042	,003						,29
UB-356x127x39	162345	,10	,74	,20	,023	,019	,008	,042	,210	,340	,210	,040	,003						,31

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	FLEXIÓN POR CHOQUE IMPACT TEST °C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C02	C40/41	C42			C43
UB-356x127x39	162344	383	501	30,1		0°	7,5	93	56	115	88
UB-356x127x39	162345	386	504	29,4		0°	7,5	174	106	170	150

Responsable del Departamento de Calidad Z01

2 análisis

D01 Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación

B06 Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Lorenzo Zabala

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 457 X 152 X 52**
Certificate Number:	**0017482**
Cast Number:	**164580**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0017482 - Page: 1 of 2

Material: UNIVERSAL BEAM 457 X 152 X 52 - Certificate: 0017482 - Cast: 164580

A01 17481, 17482,

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
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AMOL-2/08-CPR-13-1
EN 10025-1:2004

AENOR
ER
Empresa Registrada
ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE OLA P-49217

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	**VESSEL**
	GUNNESS BARRET	**HAV SNAPPER**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-54610/1100432674**	**J002238**	**20/04/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE Instrucciones de carga: carga con alma horizontal							
U BEAMS 457x152x52	**9,5**	**6**	**5**	**30**	**2484**	**14.904**	**164581,164582**
U BEAMS 457x152x52	**12,5**	**15**	**5**	**75**	**3269**	**49.035**	**164580,164581**
U BEAMS 457x152x52	**14**	**8**	**4**	**32**	**2929**	**23.432**	**164606,164607**
U BEAMS 457x152x52	**15,5**	**8**	**4**	**32**	**3243**	**25.944**	**164582,164606**
U BEAMS 457x152x60	**11**	**4**	**5**	**20**	**3289**	**13.156**	**164576**
U BEAMS 457x152x60	**11**	**1**	**3**	**3**	**1973**	**1.973**	**163204**
U BEAMS 457x152x60	**15,5**	**13**	**4**	**52**	**3708**	**48.204**	**164579**

TOTAL BUNDLES **55** TOTAL WEIGHT **176.648 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:C MATERIAL SIZE B11	COLADA HEAT B05	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) C C71	Mn C72	Si C73	P C74	S C75	N C76	V C77	Cr C78	Cu	Ni	Mo	Nb						Cev
UB-457x152x52	164580	,11	,73	20	,027	,022	,009	,045	,160	,370	,200	,044	,003						,31
UB-457x152x52	164581	,11	,71	20	,024	,020	,008	,044	,180	,380	,190	,041	,003						,32
UB-457x152x52	164582	,10	,76	20	,025	,023	,009	,048	,250	,350	,180	,034	,003						,33
UB-457x152x52	164606	,08	,77	18	,022	,025	,008	,044	,150	,330	,160	,031	,003						,29
UB-457x152x52	164607	,08	,74	19	,028	,023	,008	,044	,200	,300	,180	,038	,003						,29
UB-457x152x60	163204	,09	,72	20	,013	,019	,008	,044	,110	,360	,130	,032	,003						,28
UB-457x152x60	164579	,09	,71	18	,022	,020	,008	,044	,190	,310	,170	,033	,003						,30
UB-457x152x60	164576	,09	,72	19	,022	,022	,008	,044	,140	,350	,180	,035	,003						,29

Barrett Constructional Steel Limited
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Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**UNIVERSAL BEAM 457 X 152 X 52**
Certificate Number:	**0017482**
Cast Number:	**164580**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0017482 - Page: 2 of 2

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
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CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49217

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B06	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-457x152x52	164580	377	487	35,7		0°	7,5	150	159	127	145
UB-457x152x52	164581	374	501	31,9		0°	7,5	149	135	158	147
UB-457x152x52	164582	386	499	33,		0°	7,5	170	158	131	153
UB-457x152x52	164606	399	503	31,8		0°	7,5	129	145	132	135
UB-457x152x52	164607	401	513	31,6		0°	7,5	121	151	132	135
UB-457x152x60	163204	401	527	34,6		0°	10	100	60	97	86
UB-457x152x60	164578	394	503	31,2		0°	10	160	152	112	141
UB-457x152x60	164579	377	495	33,3		0°	10	167	160	191	173

Responsable del Departamento de Calidad Z01

8 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Lorenzo Zabala

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Tel: 01724 290950 Fax: 01724 290966
www.barrettsteel.com

Customer:	**ALPINE GROUP (1974) LIMITED**
Load Number:	
Customer Order Number:	**S3991/87763/IP**
Advice Number:	**G757198**
Material Code:	**UNIVERSAL BEAM 457 X 152 X 52**
Certificate Number:	**0018326**
Cast Number:	**164580**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0018326 - Page: 1 of 1

Material: UNIVERSAL BEAM 457 X 152 X 52 - Certificate: 0018326 - Cast: 164580

18326

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
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CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49939

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**EEMS SPACE**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-55734/1100444640**	**J002636**	**26/05/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 457x152x52	**12,5**	**1**	**5**	**5**	**3269**	**3.269**	**164580**

TOTAL BUNDLES **1** TOTAL WEIGHT **3.269 Kg.**

A02 EN 10204/3.1

A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-457x152x52	164580	,11	,73	,20	,027	,022	,009	,045	,160	,370	,200	,044	,003						,31

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	C40/41	C42			C43
UB-457x152x52	164580	377	487	35,7		0º	7,5	150	159	127	145

1 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

Lorenzo Zabala

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:	**G757198**
Material Code:	**UNIVERSAL BEAM 457 X 152 X 60**
Certificate Number:	**0014573**
Cast Number:	**162601**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0014573 - Page: 1 of 1

Material: UNIVERSAL BEAM 457 X 152 X 60 - Certificate: 0014573 - Cast: 162601

14571 14572 14573

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-47956

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN KM. 419 20212 OLABERRIA (Guipuzcoa) TELEF. (943) 80 50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**PANDA**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-53689/1100421119**	**J002012**	**15/01/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 457x152x60	**11**	**4**	**6**	**24**	**3947**	**15.788**	**162601**
U BEAMS 457x152x60	**14**	**4**	**5**	**20**	**4186**	**16.744**	**162599,162600**
U BEAMS 457x152x60	**15,5**	**5**	**5**	**25**	**4635**	**23.175**	**162601**
U BEAMS 457x152x60	**17,5**	**6**	**4**	**24**	**4186**	**25.116**	**162600,162601**

TOTAL BUNDLES **19** TOTAL WEIGHT **80.823 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb					Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78									
UB-457x152x60	162599	,09	,75	,22	,028	,030	,008	,045	,130	,300	,170	,027	,003					,29
UB-457x152x60	162600	,09	,75	,20	,020	,025	,008	,044	,130	,330	,160	,025	,003					,29
UB-457x152x60	162601	,09	,72	,21	,016	,022	,008	,043	,200	,310	,150	,068	,003					,30

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-457x152x60	162599	382	500	28,		0°	10	82	51	110	81
UB-457x152x60	162600	377	488	31,1		0°	10	72	103	41	72
UB-457x152x60	162601	381	500	30,2		0°	10	36	36	34	35

3 análisis

Responsable del Departamento de Calidad Z01

D01. Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación

B06. Marca AMO.
Productos laminados en caliente de aceros para estructuras
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Lorenzo Zabala

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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:	**G757198**
Material Code:	**UNIVERSAL BEAM 457 X 152 X 60**
Certificate Number:	**0017486**
Cast Number:	**164579**
Invoice Number:	

This is a True Copy of Original Test Certificate: - 0017486 - Page: 1 of 2

Material: UNIVERSAL BEAM 457 X 152 X 60 - Certificate: 0017486 - Cast: 164579

A01 17481, 17482, 17483, 17484, 17485, 17486.

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
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CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49217

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Commercial Sections S Grove Wharf DN15-8UA Gunness (S. Humberside) GRAN BRETAÑA	**BARRETT CENTRAL DISTRIBUTION LTD** BRIGG ROAD SCUNTHORPE GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	GUNNESS BARRET	**HAV SNAPPER**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-54610/1100432674**	**J002238**	**20/04/2016**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 457x152x52	**9,5**	**6**	**5**	**30**	**2484**	**14.904**	**164581,164582**
U BEAMS 457x152x52	**12,5**	**15**	**5**	**75**	**3269**	**49.035**	**164580,164581**
U BEAMS 457x152x52	**14**	**8**	**4**	**32**	**2929**	**23.432**	**164606,164607**
U BEAMS 457x152x52	**15,5**	**8**	**4**	**32**	**3243**	**25.944**	**164582,164606**
U BEAMS 457x152x60	**11**	**4**	**5**	**20**	**3289**	**13.156**	**164576**
U BEAMS 457x152x60	**11**	**1**	**3**	**3**	**1973**	**1.973**	**163204**
U BEAMS 457x152x60	**15,5**	**13**	**4**	**52**	**3708**	**48.204**	**164579**

TOTAL BUNDLES **55** TOTAL WEIGHT **176.648 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70/E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-457x152x52	164580	,11	,73	,20	,027	,022	,009	,045	,160	,370	,200	,044	,003						,31
UB-457x152x52	164581	,11	,71	,20	,024	,020	,008	,044	,180	,380	,190	,041	,003						,32
UB-457x152x52	164582	,10	,76	,20	,025	,023	,009	,048	,250	,350	,180	,034	,003						,33
UB-457x152x52	164606	,08	,77	,18	,022	,025	,008	,044	,150	,330	,160	,031	,003						,29
UB-457x152x52	164607	,08	,74	,19	,028	,023	,008	,044	,200	,300	,180	,038	,003						,29
UB-457x152x60	163204	,09	,72	,20	,013	,019	,008	,044	,110	,360	,130	,032	,003						,28
UB-457x152x60	164576	,09	,71	,18	,022	,020	,008	,044	,190	,310	,170	,033	,003						,30
UB-457x152x60	164579	,09	,72	,19	,022	,022	,008	,044	,140	,350	,180	,035	,003						,29

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Invoice Number:	

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A01

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AMOL-2/08-CPR-13-1
EN 10025-1:2004

AENOR ER Empresa Registrada
ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-49217

MATERIAL SIZE	COLADA / HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B06	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-457x152x52	164580	377	487	35,7		0°	7,5	150	159	127	145
UB-457x152x52	164581	374	501	31,9		0°	7,5	149	135	158	147
UB-457x152x52	164582	386	499	33,		0°	7,5	170	158	131	153
UB-457x152x52	164606	399	503	31,8		0°	7,5	129	145	132	135
UB-457x152x52	164607	401	513	31,6		0°	7,5	121	151	132	135
UB-457x152x60	163204	401	527	34,6		0°	10	100	60	97	86
UB-457x152x60	164578	394	503	31,2		0°	10	160	152	112	141
UB-457x152x60	164579	377	495	33,3		0°	10	167	160	191	173

8 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

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Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Responsable del Departamento de Calidad Z01

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