**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: | **S3991/8772621PHAUNC** |
| Advice Number: | **D286748** |
| Material Code: | **UNIVERSAL BEAM 356 X 127 X 33** |
| Certificate Number: | **0013187** |
| Cast Number: | **161536** |
| Invoice Number: | |



**Material: UNIVERSAL BEAM 356 X 127 X 33 - Certificate: 0013187 - Cast: 161536**

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

AENOR ER Empresa Registrada ER-0036/1992

13185
13187.

ArcelorMittal

# MILL TEST CERTIFICATE

**OLA P-47090**

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

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

| OUR REFERENCE | CONTRACT NUMBER | ORDER NUMBER | DATE |
|---|---|---|---|
| **P1704995** | **E-52919/1100413211** | **J001869** | **06/11/2015** |

HOT ROLLED STEEL STRUCTURALS

| SIZE | LENGTH | BUNDLES | PIECES BUNDLES | TOTAL PIECES | WEIGHT BUNDLES | TOTAL WEIGHT | HEAT |
|---|---|---|---|---|---|---|---|
| **Pintar Testas: VERDE**<br>**Instrucciones de carga: carga con alma horizontal** | | | | | | | |
| **U BEAMS 356x127x33** | **9,5** | **1** | **14** | **14** | **4402** | **4.402** | **161534,161537,161538** |
| **U BEAMS 356x127x33** | **11** | **6** | **12** | **72** | **4369** | **26.214** | **161536** |
| **U BEAMS 356x127x33** | **12,5** | **4** | **12** | **48** | **4965** | **19.860** | **161535** |
| **U BEAMS 356x127x39** | **18,3** | **3** | **6** | **18** | **4293** | **12.879** | **161529** |

TOTAL BUNDLES **14** TOTAL WEIGHT **63.355 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-356x127x33 | 161534 | ,09 | ,73 | ,19 | ,016 | ,020 | ,008 | ,046 | ,100 | ,270 | ,150 | ,028 | ,004 | | | | | | |
| UB-356x127x33 | 161535 | ,10 | ,73 | ,19 | ,019 | ,023 | ,009 | ,047 | ,130 | ,290 | ,180 | ,033 | ,004 | | | | | | ,27 |
| UB-356x127x33 | 161536 | ,10 | ,73 | ,20 | ,019 | ,024 | ,008 | ,046 | ,100 | ,290 | ,160 | ,022 | ,003 | | | | | | ,30 |
| UB-356x127x33 | 161537 | ,10 | ,70 | ,19 | ,021 | ,019 | ,008 | ,044 | ,130 | ,300 | ,150 | ,020 | ,003 | | | | | | ,28 |
| UB-356x127x33 | 161538 | ,10 | ,69 | ,18 | ,023 | ,018 | ,008 | ,047 | ,130 | ,300 | ,140 | ,024 | ,003 | | | | | | ,28 |
| UB-356x127x39 | 161529 | ,10 | ,70 | ,19 | ,020 | ,021 | ,008 | ,046 | ,180 | ,290 | ,220 | ,056 | ,003 | | | | | | ,29 |
| | | | | | | | | | | | | | | | | | | | ,31 |

| MATERIAL SIZE | COLADA HEAT | PROPIEDADES MECANICAS MECHANICAL PROPERTIES | | | | FLEXIÓN POR CHOQUE IMPACT TEST | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ReH MPa | Rm MPa | A% L0=5,65VSo | Doblado 180º | °C | KV300 | V1 j. | V2 j. | V3 j. | Media j. |
| B11 | B08 | C11 | C12 | C13 | C50 | C03 | C40/41 | | C42 | | C43 |
| UB-356x127x33 | 161534 | 395 | 500 | 33,4 | | 0º | 5 | 81 | 89 | 88 | 86 |
| UB-356x127x33 | 161535 | 407 | 525 | 28,8 | | 0º | 5 | 98 | 77 | 70 | 82 |
| UB-356x127x33 | 161536 | 391 | 495 | 32,2 | | 0º | 5 | 108 | 85 | 87 | 93 |
| UB-356x127x33 | 161537 | 404 | 511 | 31,4 | | 0º | 5 | 82 | 74 | 88 | 81 |
| UB-356x127x33 | 161538 | 395 | 503 | 32,3 | | 0º | 5 | 87 | 88 | 76 | 84 |

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| Invoice Number: | |

**This is a True Copy of Original Test Certificate: - 0013187 - Page: 3 of 3**

**Material: UNIVERSAL BEAM 356 X 127 X 33 - Certificate: 0013187 - Cast: 161536**

A01

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AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

**OLA P-47090**

# MILL TEST CERTIFICATE

| 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-356x127x39 | 161529 | 408 | 525 | 29,5 | | 0° | 7,5 | 68 | 118 | 31 | 72 |

Responsable del Departamento de Calidad Z01

**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

Lorenzo Zabala

ARCELORMITTAL GIPUZKOA, S.L.U. INSCRITA EN EL REGISTRO MERCANTIL DE GUIPUZCOA, TOMO 1253 DEL LIBRO DE INSCRIPCIONES, HOJA SS-5011/1...