A01

ArcelorMittal Gipuzkoa, S.L.U. 296104
**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 Empresa Registrada ISO 9001 ER-0036/1992

ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

**OLA P-59799**

| DISCHARGE ADDRESS | CUSTOMER |
|---|---|
| **ArcelorMittal Gipuzkoa, S.L.U.**<br>**Neew Harbour Road**<br>**HAMWORTHY / POOLE**<br>**GRAN BRETAÑA** | **A.J.N. STEELSTOCK LTD**<br>ICKNIELD WAY / KENTFORD<br>NEWMARKET<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 |
| | **POOLE** | **AMADEUS AQUAMARIJN ( UK 939 )** |

| OUR REFERENCE | CONTRACT NUMBER | ORDER NUMBER | DATE |
|---|---|---|---|
| **P1704667** | **E-63896/1100527139** | **69264** | **20/07/2018** |

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 203x133x25** | **6,1** | **8** | **16** | **128** | **2450** | **19.600** | **182017,182023,182025** |
| **U BEAMS 203x133x25** | **8** | **5** | **16** | **80** | **3213** | **16.065** | **182009,182010** |
| **U BEAMS 203x133x25** | **9,5** | **5** | **16** | **80** | **3815** | **19.075** | **181984,181985** |
| **U BEAMS 203x133x25** | **11** | **6** | **16** | **96** | **4418** | **26.508** | **181987,182012** |
| **U BEAMS 203x133x25** | **12,2** | **8** | **16** | **128** | **4900** | **39.200** | **181979,181980,181981, 181982,182020** |
| **U BEAMS 203x133x25** | **13** | **4** | **14** | **56** | **4568** | **18.272** | **182009** |
| **U BEAMS 203x133x25** | **14** | **8** | **14** | **112** | **4920** | **39.360** | **181986,182015,182018** |
| **U BEAMS 203x133x25** | **15,5** | **7** | **12** | **84** | **4669** | **32.683** | **182017,182020,182022** |
| **U BEAMS 203x133x25** | **16,5** | **4** | **12** | **48** | **4970** | **19.880** | **181989,182011** |
| **U BEAMS 203x133x25** | **18,3** | **5** | **10** | **50** | **4593** | **22.965** | **181992** |
| **U BEAMS 203x133x30** | **6,1** | **5** | **16** | **80** | **2928** | **14.640** | **182001,182002,182003** |
| **U BEAMS 203x133x30** | **8** | **4** | **16** | **64** | **3840** | **15.360** | **182034,182036** |
| **U BEAMS 203x133x30** | **9,5** | **3** | **16** | **48** | **4560** | **13.680** | **181948,181954** |
| **U BEAMS 203x133x30** | **11** | **5** | **14** | **70** | **4620** | **23.100** | **182035,182043** |
| **U BEAMS 203x133x30** | **12,2** | **9** | **14** | **126** | **5124** | **46.116** | **181995,181996,181999, 182002** |
| **U BEAMS 203x133x30** | **13** | **3** | **12** | **36** | **4680** | **14.040** | **182036** |
| **U BEAMS 203x133x30** | **14** | **6** | **12** | **72** | **5040** | **30.240** | **182042,182043,182044** |
| **U BEAMS 203x133x30** | **15,5** | **4** | **10** | **40** | **4650** | **18.600** | **181997,181998** |
| **U BEAMS 203x133x30** | **16,5** | **2** | **10** | **20** | **4950** | **9.900** | **182039** |
| **U BEAMS 203x133x30** | **18,3** | **3** | **8** | **24** | **4392** | **13.176** | **181945,182026** |
| **U BEAMS 254x146x31** | **6,1** | **6** | **14** | **84** | **2656** | **15.936** | **180629,180630,180631, 182234,182235,182262** |



Despatch No.: 1007999 S/O No.: 2285.10 Cust Name: Weldrite Structures Ltd
Cust Ref: WSL9946/C1255/L3 Parent: 296104 Cast No.....: 182009 Weight: 3.588
Pieces: 4 Size: 13.000 Message: AJN Steelstock Ltd Product: UB203133-25
Child Batch No: 296104

A01

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AENOR Empresa Registrada ISO 9001 ER-0036/1992

ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE OLA P-59799

| SIZE | LENGTH | BUNDLES | PIECES BUNDLES | TOTAL PIECES | WEIGHT BUNDLES | TOTAL WEIGHT | HEAT |
|---|---|---|---|---|---|---|---|
| U BEAMS 254x146x31 | 8 | 4 | 14 | 56 | 3483 | 13.932 | 182236,182258,182261 |
| U BEAMS 254x146x31 | 9,5 | 5 | 14 | 70 | 4136 | 20.680 | 182243,182244,182245, 182251,182252 |
| U BEAMS 254x146x31 | 11 | 4 | 14 | 56 | 4789 | 19.156 | 182248,182250 |
| U BEAMS 254x146x31 | 12,2 | 7 | 12 | 84 | 4553 | 31.871 | 182233,182234,182237, 182245,182250,182258, 182261 |
| U BEAMS 254x146x31 | 13 | 3 | 12 | 36 | 4852 | 14.556 | 182240,182242 |
| U BEAMS 254x146x31 | 14 | 7 | 10 | 70 | 4354 | 30.478 | 182241,182259,182260 |
| U BEAMS 254x146x31 | 15,5 | 6 | 10 | 60 | 4821 | 28.926 | 182238,182245,182251, 182256,182257 |
| U BEAMS 254x146x37 | 6,1 | 2 | 14 | 28 | 3160 | 6.320 | 182275,182276 |
| U BEAMS 254x146x37 | 12,2 | 3 | 10 | 30 | 4514 | 13.542 | 181453,181454 |
| U BEAMS 254x146x37 | 13 | 10 | 10 | 100 | 4810 | 48.100 | 181456,182263,182278 |
| U BEAMS 254x146x37 | 14 | 4 | 10 | 40 | 5180 | 20.720 | 182247,182265,182266, 182267 |
| U BEAMS 254x146x37 | 16,5 | 2 | 8 | 16 | 4884 | 9.768 | 182267,182273 |
| U BEAMS 254x146x37 | 18,3 | 2 | 6 | 12 | 4063 | 8.126 | 182265,182267,182274 |
| U BEAMS 254x146x43 | 6,1 | 3 | 14 | 42 | 3672 | 11.016 | 182270,182271,182272 |
| U BEAMS 254x146x43 | 9,5 | 2 | 12 | 24 | 4902 | 9.804 | 182270 |
| U BEAMS 254x146x43 | 13 | 2 | 8 | 16 | 4472 | 8.944 | 182283,182284 |
| U BEAMS 254x146x43 | 14 | 3 | 8 | 24 | 4816 | 14.448 | 182273,182280,182281 |
| U BEAMS 254x146x43 | 15,5 | 4 | 6 | 24 | 3999 | 15.996 | 182271,182272 |
| U BEAMS 254x146x43 | 16,5 | 2 | 6 | 12 | 4257 | 8.514 | 182270,182271 |
| U BEAMS 254x146x43 | 18,3 | 2 | 6 | 12 | 4721 | 9.442 | 182282,182283 |
| U BEAMS 305x165x40 | 14 | 1 | 6 | 6 | 3385 | 3.385 | 180815 |

TOTAL BUNDLES **188** TOTAL WEIGHT **816.120 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-203x133x25 | 181979 | ,09 | 1,09 | ,19 | ,028 | ,018 | ,011 | ,021 | ,220 | ,380 | ,160 | ,034 | ,021 | | | | | | ,36 |
| UB-203x133x25 | 181980 | ,07 | ,99 | ,18 | ,024 | ,020 | ,011 | ,021 | ,160 | ,380 | ,210 | ,043 | ,017 | | | | | | ,32 |
| UB-203x133x25 | 181981 | ,09 | 1,01 | ,18 | ,029 | ,019 | ,011 | ,021 | ,180 | ,430 | ,180 | ,037 | ,020 | | | | | | ,35 |
| UB-203x133x25 | 181982 | ,09 | 1,01 | ,18 | ,021 | ,016 | ,011 | ,022 | ,160 | ,400 | ,190 | ,038 | ,020 | | | | | | ,34 |
| UB-203x133x25 | 181984 | ,13 | ,98 | ,20 | ,020 | ,015 | ,011 | ,022 | ,210 | ,350 | ,180 | ,032 | ,021 | | | | | | ,38 |
| UB-203x133x25 | 181985 | ,09 | ,98 | ,19 | ,020 | ,017 | ,012 | ,020 | ,170 | ,310 | ,170 | ,036 | ,021 | | | | | | ,33 |
| UB-203x133x25 | 181986 | ,08 | 1,04 | ,20 | ,021 | ,020 | ,011 | ,020 | ,110 | ,340 | ,170 | ,031 | ,023 | | | | | | ,32 |
| UB-203x133x25 | 181987 | ,07 | 1,02 | ,21 | ,020 | ,023 | ,009 | ,020 | ,110 | ,360 | ,220 | ,043 | ,022 | | | | | | ,31 |

A01

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ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

**OLA P-59799**

| 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-203x133x25 | 181989 | ,07 | 1,02 | ,20 | ,020 | ,025 | ,011 | ,022 | ,150 | ,390 | ,160 | ,038 | ,024 | | | | | | ,32 |
| UB-203x133x25 | 181992 | ,07 | 1,01 | ,21 | ,022 | ,022 | ,012 | ,024 | ,130 | ,380 | ,160 | ,029 | ,020 | | | | | | ,31 |
| UB-203x133x25 | 182009 | ,07 | 1,01 | ,19 | ,021 | ,025 | ,009 | ,021 | ,140 | ,360 | ,290 | ,047 | ,023 | | | | | | ,32 |
| UB-203x133x25 | 182010 | ,07 | 1,04 | ,18 | ,029 | ,026 | ,009 | ,020 | ,120 | ,270 | ,200 | ,041 | ,021 | | | | | | ,31 |
| UB-203x133x25 | 182011 | ,06 | 1,02 | ,19 | ,026 | ,023 | ,009 | ,020 | ,110 | ,310 | ,180 | ,045 | ,021 | | | | | | ,30 |
| UB-203x133x25 | 182012 | ,05 | ,98 | ,21 | ,022 | ,024 | ,009 | ,022 | ,100 | ,380 | ,180 | ,031 | ,024 | | | | | | ,29 |
| UB-203x133x25 | 182015 | ,09 | 1,01 | ,18 | ,018 | ,022 | ,010 | ,021 | ,170 | ,330 | ,180 | ,035 | ,021 | | | | | | ,33 |
| UB-203x133x25 | 182017 | ,08 | 1,01 | ,18 | ,021 | ,022 | ,009 | ,021 | ,140 | ,320 | ,160 | ,027 | ,022 | | | | | | ,32 |
| UB-203x133x25 | 182018 | ,06 | 1,02 | ,18 | ,026 | ,024 | ,009 | ,023 | ,290 | ,410 | ,190 | ,037 | ,022 | | | | | | ,34 |
| UB-203x133x25 | 182020 | ,09 | 1,07 | ,20 | ,034 | ,024 | ,009 | ,025 | ,170 | ,380 | ,170 | ,025 | ,027 | | | | | | ,34 |
| UB-203x133x25 | 182022 | ,08 | ,98 | ,19 | ,017 | ,020 | ,009 | ,021 | ,130 | ,350 | ,150 | ,031 | ,021 | | | | | | ,31 |
| UB-203x133x25 | 182023 | ,07 | 1,01 | ,17 | ,017 | ,020 | ,009 | ,020 | ,120 | ,350 | ,140 | ,029 | ,021 | | | | | | ,31 |
| UB-203x133x25 | 182025 | ,08 | 1,03 | ,20 | ,023 | ,019 | ,010 | ,023 | ,150 | ,370 | ,130 | ,021 | ,024 | | | | | | ,32 |
| UB-203x133x30 | 181945 | ,07 | ,96 | ,17 | ,019 | ,018 | ,008 | ,021 | ,160 | ,390 | ,160 | ,033 | ,012 | | | | | | ,31 |
| UB-203x133x30 | 181948 | ,11 | 1,03 | ,21 | ,022 | ,019 | ,010 | ,024 | ,180 | ,450 | ,230 | ,047 | ,021 | | | | | | ,38 |
| UB-203x133x30 | 181954 | ,05 | 1,01 | ,17 | ,020 | ,020 | ,011 | ,023 | ,220 | ,390 | ,160 | ,037 | ,018 | | | | | | ,32 |
| UB-203x133x30 | 181995 | ,09 | ,97 | ,19 | ,027 | ,021 | ,009 | ,023 | ,260 | ,460 | ,190 | ,030 | ,021 | | | | | | ,35 |
| UB-203x133x30 | 181996 | ,07 | 1,01 | ,18 | ,029 | ,021 | ,010 | ,022 | ,210 | ,410 | ,180 | ,037 | ,023 | | | | | | ,33 |
| UB-203x133x30 | 181997 | ,07 | 1,01 | ,20 | ,031 | ,020 | ,010 | ,021 | ,240 | ,390 | ,170 | ,037 | ,021 | | | | | | ,34 |
| UB-203x133x30 | 181998 | ,06 | 1,00 | ,18 | ,028 | ,022 | ,008 | ,023 | ,170 | ,380 | ,150 | ,037 | ,021 | | | | | | ,31 |
| UB-203x133x30 | 181999 | ,06 | 1,02 | ,18 | ,030 | ,023 | ,010 | ,022 | ,170 | ,400 | ,150 | ,034 | ,019 | | | | | | ,32 |
| UB-203x133x30 | 182001 | ,09 | ,98 | ,21 | ,025 | ,020 | ,009 | ,023 | ,140 | ,380 | ,170 | ,044 | ,016 | | | | | | ,33 |
| UB-203x133x30 | 182002 | ,07 | 1,00 | ,20 | ,025 | ,018 | ,011 | ,023 | ,160 | ,380 | ,160 | ,045 | ,018 | | | | | | ,32 |
| UB-203x133x30 | 182003 | ,06 | 1,01 | ,20 | ,023 | ,021 | ,009 | ,026 | ,150 | ,360 | ,170 | ,039 | ,018 | | | | | | ,31 |
| UB-203x133x30 | 182026 | ,08 | 1,04 | ,20 | ,025 | ,022 | ,011 | ,021 | ,150 | ,370 | ,160 | ,033 | ,020 | | | | | | ,33 |
| UB-203x133x30 | 182034 | ,08 | ,97 | ,18 | ,021 | ,021 | ,011 | ,024 | ,130 | ,430 | ,150 | ,026 | ,018 | | | | | | ,32 |
| UB-203x133x30 | 182035 | ,08 | ,99 | ,18 | ,023 | ,022 | ,010 | ,026 | ,140 | ,410 | ,150 | ,025 | ,018 | | | | | | ,32 |
| UB-203x133x30 | 182036 | ,08 | 1,01 | ,20 | ,023 | ,023 | ,009 | ,027 | ,140 | ,450 | ,160 | ,022 | ,021 | | | | | | ,33 |
| UB-203x133x30 | 182039 | ,07 | 1,01 | ,22 | ,022 | ,019 | ,009 | ,023 | ,130 | ,380 | ,210 | ,044 | ,020 | | | | | | ,32 |
| UB-203x133x30 | 182042 | ,08 | 1,02 | ,19 | ,021 | ,023 | ,009 | ,024 | ,110 | ,350 | ,190 | ,042 | ,025 | | | | | | ,32 |
| UB-203x133x30 | 182043 | ,09 | 1,04 | ,20 | ,020 | ,020 | ,009 | ,022 | ,130 | ,330 | ,160 | ,036 | ,023 | | | | | | ,33 |
| UB-203x133x30 | 182044 | ,08 | 1,00 | ,18 | ,020 | ,025 | ,011 | ,021 | ,160 | ,410 | ,160 | ,035 | ,023 | | | | | | ,32 |
| UB-254x146x31 | 180629 | ,09 | 1,01 | ,23 | ,026 | ,024 | ,011 | ,026 | ,140 | ,370 | ,150 | ,037 | ,014 | | | | | | ,33 |
| UB-254x146x31 | 180630 | ,07 | ,99 | ,19 | ,029 | ,022 | ,012 | ,028 | ,150 | ,410 | ,160 | ,037 | ,014 | | | | | | ,32 |
| UB-254x146x31 | 180631 | ,07 | 1,00 | ,20 | ,023 | ,022 | ,011 | ,027 | ,120 | ,380 | ,150 | ,034 | ,011 | | | | | | ,31 |
| UB-254x146x31 | 182233 | ,06 | ,99 | ,16 | ,020 | ,024 | ,009 | ,018 | ,140 | ,320 | ,150 | ,035 | ,015 | | | | | | ,30 |
| UB-254x146x31 | 182234 | ,06 | 1,03 | ,18 | ,022 | ,020 | ,009 | ,019 | ,140 | ,310 | ,180 | ,037 | ,024 | | | | | | ,30 |
| UB-254x146x31 | 182235 | ,09 | 1,00 | ,20 | ,022 | ,019 | ,008 | ,021 | ,140 | ,310 | ,170 | ,035 | ,020 | | | | | | ,32 |
| UB-254x146x31 | 182236 | ,08 | 1,00 | ,20 | ,020 | ,019 | ,010 | ,020 | ,170 | ,360 | ,170 | ,043 | ,018 | | | | | | ,33 |
| UB-254x146x31 | 182237 | ,05 | ,99 | ,18 | ,018 | ,018 | ,010 | ,020 | ,140 | ,320 | ,160 | ,041 | ,018 | | | | | | ,29 |
| UB-254x146x31 | 182238 | ,07 | ,98 | ,19 | ,028 | ,017 | ,009 | ,020 | ,170 | ,310 | ,160 | ,040 | ,015 | | | | | | ,31 |
| UB-254x146x31 | 182240 | ,08 | 1,01 | ,20 | ,020 | ,018 | ,009 | ,022 | ,140 | ,340 | ,190 | ,048 | ,018 | | | | | | ,32 |
| UB-254x146x31 | 182241 | ,07 | 1,00 | ,18 | ,022 | ,021 | ,010 | ,023 | ,130 | ,310 | ,200 | ,047 | ,020 | | | | | | ,31 |
| UB-254x146x31 | 182242 | ,06 | ,96 | ,17 | ,021 | ,018 | ,009 | ,020 | ,110 | ,330 | ,150 | ,044 | ,018 | | | | | | ,29 |
| UB-254x146x31 | 182243 | ,09 | 1,05 | ,18 | ,023 | ,019 | ,009 | ,021 | ,150 | ,330 | ,170 | ,041 | ,027 | | | | | | ,34 |
| UB-254x146x31 | 182244 | ,08 | ,99 | ,20 | ,025 | ,019 | ,012 | ,020 | ,190 | ,340 | ,190 | ,043 | ,021 | | | | | | ,33 |
| UB-254x146x31 | 182245 | ,07 | 1,01 | ,20 | ,030 | ,020 | ,010 | ,023 | ,250 | ,350 | ,160 | ,038 | ,021 | | | | | | ,33 |
| UB-254x146x31 | 182248 | ,07 | ,98 | ,20 | ,024 | ,019 | ,010 | ,021 | ,170 | ,370 | ,140 | ,034 | ,017 | | | | | | ,31 |

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ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

**OLA P-59799**

| 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-254x146x31 | 182250 | ,07 | ,99 | ,19 | ,022 | ,022 | ,010 | ,021 | ,260 | ,400 | ,230 | ,053 | ,019 | | | | | | ,35 |
| UB-254x146x31 | 182251 | ,06 | 1,00 | ,18 | ,016 | ,019 | ,010 | ,020 | ,140 | ,330 | ,180 | ,048 | ,021 | | | | | | ,31 |
| UB-254x146x31 | 182252 | ,08 | 1,00 | ,19 | ,020 | ,021 | ,011 | ,019 | ,150 | ,320 | ,170 | ,041 | ,021 | | | | | | ,32 |
| UB-254x146x31 | 182256 | ,07 | ,97 | ,19 | ,021 | ,020 | ,011 | ,021 | ,120 | ,490 | ,170 | ,048 | ,018 | | | | | | ,31 |
| UB-254x146x31 | 182257 | ,07 | 1,00 | ,20 | ,024 | ,019 | ,010 | ,020 | ,140 | ,390 | ,160 | ,050 | ,023 | | | | | | ,32 |
| UB-254x146x31 | 182259 | ,09 | 1,02 | ,19 | ,022 | ,019 | ,009 | ,021 | ,130 | ,350 | ,170 | ,038 | ,023 | | | | | | ,33 |
| UB-254x146x31 | 182260 | ,07 | 1,02 | ,18 | ,019 | ,028 | ,009 | ,020 | ,090 | ,350 | ,150 | ,030 | ,024 | | | | | | ,30 |
| UB-254x146x31 | 182261 | ,06 | 1,01 | ,19 | ,022 | ,023 | ,011 | ,021 | ,180 | ,340 | ,170 | ,042 | ,023 | | | | | | ,31 |
| UB-254x146x31 | 182262 | ,07 | 1,00 | ,18 | ,022 | ,022 | ,010 | ,020 | ,160 | ,340 | ,180 | ,031 | ,020 | | | | | | ,31 |
| UB-254x146x37 | 181453 | ,07 | ,99 | ,20 | ,018 | ,018 | ,009 | ,026 | ,110 | ,350 | ,150 | ,034 | ,015 | | | | | | ,31 |
| UB-254x146x37 | 181454 | ,08 | ,99 | ,20 | ,023 | ,018 | ,010 | ,029 | ,130 | ,350 | ,170 | ,033 | ,015 | | | | | | ,32 |
| UB-254x146x37 | 181456 | ,07 | 1,02 | ,21 | ,023 | ,022 | ,012 | ,024 | ,140 | ,350 | ,190 | ,036 | ,017 | | | | | | ,31 |
| UB-254x146x37 | 182247 | ,09 | ,97 | ,22 | ,024 | ,021 | ,010 | ,023 | ,190 | ,400 | ,160 | ,033 | ,016 | | | | | | ,33 |
| UB-254x146x37 | 182263 | ,08 | 1,00 | ,18 | ,022 | ,020 | ,010 | ,020 | ,160 | ,340 | ,160 | ,033 | ,019 | | | | | | ,32 |
| UB-254x146x37 | 182265 | ,07 | ,99 | ,20 | ,023 | ,021 | ,011 | ,021 | ,170 | ,330 | ,160 | ,037 | ,019 | | | | | | ,31 |
| UB-254x146x37 | 182266 | ,09 | 1,00 | ,19 | ,025 | ,019 | ,012 | ,023 | ,170 | ,360 | ,140 | ,040 | ,020 | | | | | | ,33 |
| UB-254x146x37 | 182267 | ,12 | 1,00 | ,19 | ,031 | ,019 | ,012 | ,024 | ,320 | ,360 | ,180 | ,052 | ,020 | | | | | | ,40 |
| UB-254x146x37 | 182273 | ,07 | 1,04 | ,20 | ,019 | ,020 | ,009 | ,022 | ,160 | ,280 | ,140 | ,035 | ,018 | | | | | | ,32 |
| UB-254x146x37 | 182274 | ,07 | ,96 | ,18 | ,020 | ,020 | ,010 | ,021 | ,150 | ,300 | ,150 | ,047 | ,017 | | | | | | ,30 |
| UB-254x146x37 | 182275 | ,08 | 1,02 | ,20 | ,021 | ,019 | ,010 | ,022 | ,150 | ,320 | ,150 | ,046 | ,018 | | | | | | ,33 |
| UB-254x146x37 | 182276 | ,09 | 1,00 | ,21 | ,023 | ,020 | ,009 | ,020 | ,230 | ,320 | ,250 | ,052 | ,020 | | | | | | ,35 |
| UB-254x146x43 | 182270 | ,07 | 1,03 | ,19 | ,024 | ,022 | ,012 | ,022 | ,150 | ,370 | ,210 | ,047 | ,025 | | | | | | ,33 |
| UB-254x146x43 | 182271 | ,07 | 1,02 | ,18 | ,026 | ,021 | ,012 | ,022 | ,240 | ,430 | ,240 | ,045 | ,026 | | | | | | ,35 |
| UB-254x146x43 | 182272 | ,07 | ,99 | ,16 | ,024 | ,022 | ,010 | ,022 | ,230 | ,370 | ,210 | ,042 | ,024 | | | | | | ,33 |
| UB-254x146x43 | 182273 | ,07 | 1,04 | ,20 | ,019 | ,020 | ,009 | ,022 | ,160 | ,280 | ,140 | ,035 | ,018 | | | | | | ,32 |
| UB-254x146x43 | 182280 | ,08 | ,97 | ,19 | ,024 | ,021 | ,011 | ,024 | ,170 | ,430 | ,180 | ,033 | ,014 | | | | | | ,33 |
| UB-254x146x43 | 182281 | ,10 | ,99 | ,21 | ,027 | ,020 | ,010 | ,022 | ,200 | ,390 | ,350 | ,055 | ,017 | | | | | | ,37 |
| UB-254x146x43 | 182282 | ,11 | 1,02 | ,23 | ,026 | ,020 | ,010 | ,022 | ,200 | ,360 | ,270 | ,063 | ,026 | | | | | | ,38 |
| UB-254x146x43 | 182283 | ,09 | 1,03 | ,20 | ,020 | ,019 | ,010 | ,021 | ,160 | ,330 | ,230 | ,049 | ,026 | | | | | | ,34 |
| UB-254x146x43 | 182284 | ,08 | 1,00 | ,20 | ,019 | ,021 | ,009 | ,021 | ,150 | ,350 | ,210 | ,042 | ,027 | | | | | | ,33 |
| UB-305x165x40 | 180815 | ,07 | 1,02 | ,21 | ,022 | ,022 | ,009 | ,027 | ,130 | ,310 | ,170 | ,038 | ,014 | | | | | | ,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 | C50 | C03 | C40/41 | C42 | | | C43 |
| UB-203x133x25 | 181979 | 431 | 544 | 32, | | 0° | 5 | 47 | 34 | 44 | 42 |
| UB-203x133x25 | 181980 | 428 | 532 | 31,8 | | 0° | 5 | 61 | 97 | 72 | 77 |
| UB-203x133x25 | 181981 | 433 | 555 | 31,6 | | 0° | 5 | 36 | 32 | 39 | 36 |
| UB-203x133x25 | 181982 | 447 | 554 | 31,5 | | 0° | 5 | 91 | 63 | 47 | 67 |
| UB-203x133x25 | 181984 | 444 | 544 | 31,7 | | 0° | 5 | 37 | 55 | 37 | 43 |
| UB-203x133x25 | 181985 | 435 | 554 | 31,6 | | 0° | 5 | 30 | 33 | 45 | 36 |
| UB-203x133x25 | 181986 | 450 | 546 | 31,9 | | 0° | 5 | 41 | 30 | 50 | 40 |
| UB-203x133x25 | 181987 | 449 | 552 | 30,7 | | 0° | 5 | 86 | 76 | 82 | 81 |
| UB-203x133x25 | 181989 | 449 | 548 | 29,8 | | 0° | 5 | 78 | 78 | 85 | 80 |
| UB-203x133x25 | 181992 | 442 | 548 | 31,9 | | 0° | 5 | 62 | 80 | 67 | 70 |
| UB-203x133x25 | 182009 | 448 | 552 | 32,3 | | 0° | 5 | 54 | 56 | 59 | 56 |
| UB-203x133x25 | 182010 | 446 | 543 | 30,1 | | 0° | 5 | 74 | 74 | 90 | 79 |
| UB-203x133x25 | 182011 | 449 | 547 | 31,8 | | 0° | 5 | 68 | 82 | 66 | 72 |

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ArcelorMittal Gipuzkoa, S.L.U. 296104
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09-0099
AMOL-2/08-CPR-13-1
EN 10025-1:2004
AENOR Empresa Registrada ISO 9001 ER-0036/1992
ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE OLA P-59799

| 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-203x133x25 | 182012 | 450 | 545 | 31,2 | | 0º | 5 | 91 | 79 | 78 | 83 |
| UB-203x133x25 | 182015 | 449 | 566 | 31,9 | | 0º | 5 | 37 | 35 | 69 | 47 |
| UB-203x133x25 | 182017 | 437 | 557 | 31,9 | | 0º | 5 | 69 | 91 | 58 | 73 |
| UB-203x133x25 | 182018 | 419 | 565 | 31,7 | | 0º | 5 | 42 | 40 | 47 | 43 |
| UB-203x133x25 | 182020 | 448 | 542 | 32,2 | | 0º | 5 | 33 | 54 | 34 | 40 |
| UB-203x133x25 | 182022 | 446 | 531 | 31,8 | | 0º | 5 | 81 | 245 | 81 | 136 |
| UB-203x133x25 | 182023 | 423 | 549 | 30, | | 0º | 5 | 64 | 62 | 53 | 60 |
| UB-203x133x25 | 182025 | 442 | 529 | 32, | | 0º | 5 | 67 | 100 | 71 | 79 |
| UB-203x133x30 | 181945 | 449 | 600 | 31,3 | | 0º | 7,5 | 40 | 59 | 51 | 50 |
| UB-203x133x30 | 181948 | 449 | 564 | 31,5 | | 0º | 7,5 | 108 | 124 | 148 | 127 |
| UB-203x133x30 | 181954 | 447 | 584 | 31,5 | | 0º | 7,5 | 70 | 49 | 53 | 57 |
| UB-203x133x30 | 181995 | 447 | 572 | 31,5 | | 0º | 7,5 | 133 | 159 | 148 | 147 |
| UB-203x133x30 | 181996 | 446 | 569 | 31,4 | | 0º | 7,5 | 124 | 75 | 55 | 85 |
| UB-203x133x30 | 181997 | 449 | 535 | 31,7 | | 0º | 7,5 | 151 | 123 | 157 | 144 |
| UB-203x133x30 | 181998 | 448 | 547 | 32,3 | | 0º | 7,5 | 78 | 99 | 90 | 89 |
| UB-203x133x30 | 181999 | 437 | 523 | 31,9 | | 0º | 7,5 | 160 | 105 | 150 | 138 |
| UB-203x133x30 | 182001 | 437 | 536 | 30,5 | | 0º | 7,5 | 115 | 111 | 126 | 117 |
| UB-203x133x30 | 182002 | 446 | 552 | 31,7 | | 0º | 7,5 | 137 | 155 | 140 | 144 |
| UB-203x133x30 | 182003 | 447 | 540 | 31,7 | | 0º | 7,5 | 127 | 164 | 163 | 151 |
| UB-203x133x30 | 182026 | 443 | 565 | 31,6 | | 0º | 7,5 | 136 | 130 | 118 | 128 |
| UB-203x133x30 | 182034 | 449 | 534 | 32,3 | | 0º | 7,5 | 117 | 127 | 146 | 130 |
| UB-203x133x30 | 182035 | 449 | 550 | 30,5 | | 0º | 7,5 | 148 | 162 | 151 | 154 |
| UB-203x133x30 | 182036 | 445 | 535 | 31,8 | | 0º | 7,5 | 123 | 138 | 122 | 128 |
| UB-203x133x30 | 182039 | 423 | 514 | 30,9 | | 0º | 7,5 | 144 | 155 | 157 | 152 |
| UB-203x133x30 | 182042 | 435 | 529 | 31, | | 0º | 7,5 | 162 | 160 | 152 | 158 |
| UB-203x133x30 | 182043 | 429 | 527 | 29,3 | | 0º | 7,5 | 88 | 84 | 93 | 88 |
| UB-203x133x30 | 182044 | 441 | 528 | 29, | | 0º | 7,5 | 144 | 150 | 146 | 147 |
| UB-254x146x31 | 180629 | 415 | 523 | 34, | | 0º | 5 | 64 | 69 | 71 | 68 |
| UB-254x146x31 | 180630 | 424 | 528 | 31,8 | | 0º | 5 | 67 | 66 | 73 | 69 |
| UB-254x146x31 | 180631 | 447 | 548 | 34,7 | | 0º | 5 | 74 | 55 | 56 | 62 |
| UB-254x146x31 | 182233 | 420 | 516 | 33,2 | | 0º | 5 | 93 | 81 | 57 | 77 |
| UB-254x146x31 | 182234 | 440 | 536 | 30,2 | | 0º | 5 | 94 | 105 | 110 | 103 |
| UB-254x146x31 | 182235 | 422 | 540 | 29,3 | | 0º | 5 | 64 | 45 | 45 | 51 |
| UB-254x146x31 | 182236 | 448 | 563 | 32, | | 0º | 5 | 57 | 67 | 63 | 62 |
| UB-254x146x31 | 182237 | 446 | 567 | 30,1 | | 0º | 5 | 98 | 86 | 95 | 93 |
| UB-254x146x31 | 182238 | 433 | 562 | 29, | | 0º | 5 | 58 | 49 | 47 | 51 |
| UB-254x146x31 | 182240 | 430 | 561 | 29,5 | | 0º | 5 | 71 | 88 | 52 | 70 |
| UB-254x146x31 | 182241 | 449 | 526 | 30,8 | | 0º | 5 | 78 | 65 | 58 | 67 |
| UB-254x146x31 | 182242 | 449 | 568 | 29,5 | | 0º | 5 | 57 | 42 | 73 | 57 |
| UB-254x146x31 | 182243 | 443 | 520 | 28,9 | | 0º | 5 | 68 | 77 | 84 | 76 |
| UB-254x146x31 | 182244 | 444 | 550 | 28,8 | | 0º | 5 | 62 | 71 | 58 | 64 |
| UB-254x146x31 | 182245 | 445 | 577 | 31,6 | | 0º | 5 | 98 | 87 | 91 | 92 |
| UB-254x146x31 | 182248 | 422 | 542 | 26, | | 0º | 5 | 46 | 37 | 39 | 41 |
| UB-254x146x31 | 182250 | 440 | 572 | 31,3 | | 0º | 5 | 68 | 71 | 79 | 73 |
| UB-254x146x31 | 182251 | 448 | 592 | 31,6 | | 0º | 5 | 58 | 39 | 78 | 58 |
| UB-254x146x31 | 182252 | 441 | 568 | 31,3 | | 0º | 5 | 68 | 60 | 54 | 61 |
| UB-254x146x31 | 182256 | 446 | 546 | 33,1 | | 0º | 5 | 99 | 110 | 95 | 101 |
| UB-254x146x31 | 182257 | 413 | 581 | 30,8 | | 0º | 5 | 73 | 60 | 82 | 72 |

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

AENOR Empresa Registrada ISO 9001 ER-0036/1992

ArcelorMittal

# CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

**OLA P-59799**

| 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-254x146x31 | 182259 | 440 | 536 | 32,9 | | 0° | 5 | 79 | 77 | 77 | 78 |
| UB-254x146x31 | 182260 | 438 | 534 | 32,8 | | 0° | 5 | 64 | 73 | 74 | 70 |
| UB-254x146x31 | 182261 | 438 | 558 | 30, | | 0° | 5 | 65 | 69 | 62 | 65 |
| UB-254x146x31 | 182262 | 412 | 547 | 31,7 | | 0° | 5 | 42 | 62 | 45 | 50 |
| UB-254x146x37 | 181453 | 443 | 554 | 29,5 | | 0° | 7,5 | 139 | 143 | 141 | 141 |
| UB-254x146x37 | 181454 | 439 | 538 | 30,3 | | 0° | 7,5 | 141 | 128 | 155 | 141 |
| UB-254x146x37 | 181456 | 442 | 562 | 29,8 | | 0° | 7,5 | 119 | 122 | 129 | 123 |
| UB-254x146x37 | 182247 | 445 | 574 | 30,3 | | 0° | 7,5 | 65 | 40 | 72 | 59 |
| UB-254x146x37 | 182263 | 443 | 572 | 31, | | 0° | 7,5 | 35 | 33 | 39 | 36 |
| UB-254x146x37 | 182265 | 438 | 529 | 30,1 | | 0° | 7,5 | 36 | 49 | 93 | 59 |
| UB-254x146x37 | 182266 | 447 | 558 | 31,7 | | 0° | 7,5 | 34 | 71 | 74 | 60 |
| UB-254x146x37 | 182267 | 444 | 562 | 31,3 | | 0° | 7,5 | 53 | 38 | 50 | 47 |
| UB-254x146x37 | 182273 | 443 | 554 | 33,2 | | 0° | 7,5 | 75 | 60 | 62 | 66 |
| UB-254x146x37 | 182274 | 430 | 526 | 30,3 | | 0° | 7,5 | 145 | 79 | 134 | 119 |
| UB-254x146x37 | 182275 | 435 | 542 | 30,8 | | 0° | 7,5 | 44 | 32 | 41 | 39 |
| UB-254x146x37 | 182276 | 447 | 554 | 30,7 | | 0° | 7,5 | 47 | 52 | 40 | 46 |
| UB-254x146x43 | 182270 | 445 | 539 | 30,1 | | 0° | 10 | 99 | 150 | 119 | 123 |
| UB-254x146x43 | 182271 | 442 | 564 | 29,8 | | 0° | 10 | 72 | 55 | 63 | 63 |
| UB-254x146x43 | 182272 | 446 | 554 | 30,7 | | 0° | 10 | 49 | 72 | 140 | 87 |
| UB-254x146x43 | 182273 | 447 | 550 | 30,8 | | 0° | 10 | 154 | 143 | 145 | 147 |
| UB-254x146x43 | 182280 | 449 | 570 | 29,3 | | 0° | 10 | 44 | 52 | 58 | 51 |
| UB-254x146x43 | 182281 | 446 | 582 | 29,3 | | 0° | 10 | 42 | 33 | 49 | 41 |
| UB-254x146x43 | 182282 | 445 | 566 | 31,3 | | 0° | 10 | 68 | 145 | 119 | 111 |
| UB-254x146x43 | 182283 | 444 | 545 | 28, | | 0° | 10 | 124 | 90 | 113 | 109 |
| UB-254x146x43 | 182284 | 439 | 550 | 32, | | 0° | 10 | 85 | 146 | 120 | 117 |
| UB-305x165x40 | 180815 | 437 | 530 | 30,7 | | 0° | 7,5 | 114 | 127 | 100 | 114 |

**87 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
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Jose Maria Galindo