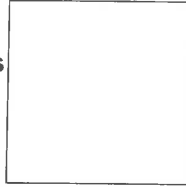


ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Guipúzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-54101

| DISCHARGE ADDRESS | | CUSTOMER | |
|--|-------------------------|--|-----------------|
| Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO | | Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO | |
| 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 | | | BILBAO, SPAIN |
| | | PORT OF DISCHARGE | VESSEL |
| | | VERACRUZ | AZORESBOG |
| OUR REFERENCE | CONTRACT NUMBER | ORDER NUMBER | DATE |
| P1704510 | 01-E-58815 / 1700024570 | 25174 | 29/04/2017 |

Material: "WF-PERFILES DE ACERO AL CARBONO LAMINADO EN CALIENTE"

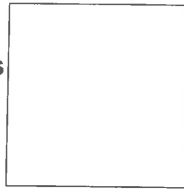
El exportador de los productos incluidos en el presente documento,
 Autorización aduanera no.

ARCELORMITTAL GUIPUZKOA, S.L.U. ES/20/0040/03

Declara que, salvo indicación en sentido contrario, estos
 productos gozan de un origen preferencial ESPAÑA

| SIZE | LENGTH | BUNDLES | PIECES BUNDLES | TOTAL PIECES | WEIGHT BUNDLES | TOTAL WEIGHT | HEAT |
|----------------|--------|---------|-------------------|-----------------|-------------------|-----------------|--------|
| +/RED | | | | | | | |
| WF BEAMS 8x21 | 40' | 4 | 12 | 48 | 4572 | 18.288 | 172423 |
| WF BEAMS 8x28 | 40' | 1 | 10 | 10 | 5080 | 5.080 | 172214 |
| WF BEAMS 8x35 | 40' | 1 | 8 | 8 | 5081 | 5.081 | 172281 |
| WF BEAMS 10x12 | 40' | 3 | 22 | 66 | 4790 | 14.370 | 172290 |
| WF BEAMS 10x12 | 40' | 3 | 22 | 66 | 4790 | 14.370 | 172291 |
| WF BEAMS 10x15 | 40' | 2 | 18 | 36 | 4898 | 9.796 | 172296 |
| WF BEAMS 10x15 | 40' | 1 | 18 | 18 | 4898 | 4.898 | 172297 |
| WF BEAMS 10x17 | 40' | 5 | 16 | 80 | 4935 | 24.675 | 172300 |
| WF BEAMS 10x22 | 40' | 6 | 12 | 72 | 4790 | 28.740 | 172343 |
| WF BEAMS 10x26 | 40' | 1 | 10 | 10 | 4717 | 4.717 | 172346 |
| WF BEAMS 10x26 | 40' | 4 | 10 | 40 | 4717 | 18.868 | 172348 |
| WF BEAMS 10x30 | 40' | 5 | 8 | 40 | 4370 | 21.850 | 172341 |
| WF BEAMS 10x30 | 40' | 1 | 4 | 4 | 2185 | 2.185 | 169186 |
| WF BEAMS 10x49 | 40' | 2 | 6 | 12 | 5334 | 10.668 | 171965 |
| WF BEAMS 10x49 | 40' | 1 | 6 | 6 | 5334 | 5.334 | 171966 |
| WF BEAMS 10x49 | 40' | 1 | 6 | 6 | 5334 | 5.334 | 171967 |
| WF BEAMS 10x49 | 40' | 2 | 6 | 12 | 5334 | 10.668 | 171968 |
| WF BEAMS 10x60 | 40' | 3 | 4 | 12 | 4354 | 13.062 | 172037 |

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MILL TEST CERTIFICATE

OLA P-54101

| SIZE | LENGTH | BUNDLES | PIECES BUNDLES | TOTAL PIECES | WEIGHT BUNDLES | TOTAL WEIGHT | HEAT |
|----------------|--------|---------|----------------|--------------|----------------|--------------|--------|
| WF BEAMS 12x19 | 40' | 2 | 14 | 28 | 4827 | 9.654 | 172481 |
| WF BEAMS 12x19 | 40' | 2 | 14 | 28 | 4827 | 9.654 | 172482 |
| WF BEAMS 12x19 | 40' | 1 | 14 | 14 | 4827 | 4.827 | 172483 |
| WF BEAMS 12x22 | 40' | 1 | 12 | 12 | 4790 | 4.790 | 172487 |
| WF BEAMS 12x22 | 40' | 2 | 12 | 24 | 4790 | 9.580 | 172488 |
| WF BEAMS 12x22 | 40' | 3 | 12 | 36 | 4790 | 14.370 | 172489 |
| WF BEAMS 12x22 | 40' | 2 | 12 | 24 | 4790 | 9.580 | 172490 |
| WF BEAMS 12x65 | 40' | 2 | 3 | 6 | 3538 | 7.076 | 172065 |
| WF BEAMS 12x65 | 40' | 2 | 3 | 6 | 3538 | 7.076 | 172067 |
| WF BEAMS 12x65 | 40' | 3 | 3 | 9 | 3538 | 10.614 | 172068 |
| WF BEAMS 14x26 | 40' | 1 | 10 | 10 | 4717 | 4.717 | 170822 |
| WF BEAMS 14x26 | 40' | 1 | 9 | 9 | 4245 | 4.245 | 172398 |
| WF BEAMS 14x26 | 40' | 2 | 9 | 18 | 4245 | 8.490 | 172399 |
| WF BEAMS 14x26 | 40' | 1 | 9 | 9 | 4245 | 4.245 | 172400 |
| WF BEAMS 14x26 | 40' | 1 | 9 | 9 | 4245 | 4.245 | 172430 |
| WF BEAMS 18x71 | 40' | 1 | 4 | 4 | 5153 | 5.153 | 171741 |
| WF BEAMS 21x44 | 40' | 1 | 6 | 6 | 4790 | 4.790 | 172054 |
| WF BEAMS 21x44 | 40' | 3 | 6 | 18 | 4790 | 14.370 | 172058 |
| WF BEAMS 21x44 | 40' | 1 | 6 | 6 | 4790 | 4.790 | 172059 |
| WF BEAMS 21x44 | 40' | 1 | 6 | 6 | 4790 | 4.790 | 172060 |
| WF BEAMS 21x44 | 40' | 1 | 1 | 1 | 798 | 798 | 172053 |
| WF BEAMS 21x50 | 40' | 2 | 5 | 10 | 4536 | 9.072 | 172035 |
| WF BEAMS 21x62 | 40' | 1 | 4 | 4 | 4500 | 4.500 | 171920 |
| WF BEAMS 21x62 | 40' | 1 | 4 | 4 | 4500 | 4.500 | 171922 |
| WF BEAMS 21x68 | 40' | 3 | 4 | 12 | 4935 | 14.805 | 171926 |
| WF BEAMS 21x93 | 40' | 2 | 3 | 6 | 5062 | 10.124 | 171936 |
| WF BEAMS 21x93 | 40' | 3 | 3 | 9 | 5062 | 15.186 | 171937 |
| WF BEAMS 24x55 | 40' | 1 | 5 | 5 | 4990 | 4.990 | 171933 |
| WF BEAMS 24x55 | 40' | 1 | 5 | 5 | 4990 | 4.990 | 171940 |
| WF BEAMS 24x55 | 40' | 9 | 5 | 45 | 4990 | 44.910 | 171942 |
| WF BEAMS 24x55 | 40' | 1 | 5 | 5 | 4990 | 4.990 | 171943 |
| WF BEAMS 24x55 | 40' | 4 | 5 | 20 | 4990 | 19.960 | 171944 |
| WF BEAMS 24x55 | 40' | 4 | 5 | 20 | 4990 | 19.960 | 171964 |
| WF BEAMS 24x84 | 40' | 1 | 1 | 1 | 1524 | 1.524 | 171885 |

TOTAL BUNDLES 113

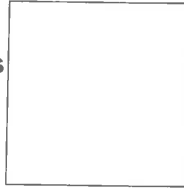
TOTAL WEIGHT 525.349 Kg.

A02 EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6

(B01/B02/B03) A03

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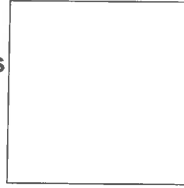


MILL TEST CERTIFICATE

OLA P-54101

| COLADA HEAT | COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) | | | | | | | | | | | | | | CEV | | | | |
|----------------|---|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|--|--|--|--|
| | C | Mn | Si | P | S | V | Cr | Ni | Mo | Cu | Nb | Sn | Al | | | | | | |
| 169186 | ,091 | ,910 | ,200 | ,024 | ,019 | ,051 | ,160 | ,180 | ,034 | ,330 | ,011 | ,020 | ,004 | ,33 | | | | | |
| 170822 | ,066 | ,920 | ,170 | ,018 | ,022 | ,056 | ,130 | ,130 | ,021 | ,320 | ,003 | ,033 | ,003 | ,29 | | | | | |
| 171741 | ,066 | ,920 | ,200 | ,022 | ,021 | ,055 | ,120 | ,120 | ,030 | ,320 | ,003 | ,024 | ,001 | ,29 | | | | | |
| 171885 | ,073 | ,930 | ,180 | ,025 | ,022 | ,053 | ,150 | ,140 | ,030 | ,280 | ,003 | ,036 | ,004 | ,30 | | | | | |
| 171920 | ,062 | ,940 | ,200 | ,018 | ,022 | ,060 | ,130 | ,130 | ,037 | ,460 | ,003 | ,032 | ,004 | ,30 | | | | | |
| 171922 | ,075 | ,990 | ,170 | ,019 | ,022 | ,058 | ,150 | ,200 | ,040 | ,360 | ,003 | ,031 | ,003 | ,33 | | | | | |
| 171926 | ,080 | 1,030 | ,170 | ,019 | ,022 | ,055 | ,140 | ,180 | ,039 | ,410 | ,003 | ,027 | ,004 | ,34 | | | | | |
| 171933 | ,069 | ,920 | ,200 | ,023 | ,021 | ,055 | ,140 | ,150 | ,032 | ,440 | ,003 | ,029 | ,004 | ,31 | | | | | |
| 171936 | ,069 | ,890 | ,210 | ,027 | ,022 | ,054 | ,210 | ,170 | ,036 | ,460 | ,003 | ,026 | ,003 | ,32 | | | | | |
| 171937 | ,064 | ,890 | ,190 | ,028 | ,022 | ,054 | ,170 | ,160 | ,033 | ,460 | ,003 | ,025 | ,003 | ,31 | | | | | |
| 171940 | ,077 | ,870 | ,180 | ,034 | ,023 | ,053 | ,170 | ,150 | ,032 | ,460 | ,003 | ,028 | ,004 | ,31 | | | | | |
| 171942 | ,077 | ,900 | ,190 | ,020 | ,020 | ,054 | ,140 | ,160 | ,045 | ,340 | ,003 | ,025 | ,008 | ,31 | | | | | |
| 171943 | ,109 | ,920 | ,190 | ,014 | ,019 | ,054 | ,170 | ,200 | ,035 | ,380 | ,003 | ,033 | ,004 | ,35 | | | | | |
| 171944 | ,065 | ,900 | ,190 | ,025 | ,024 | ,053 | ,220 | ,190 | ,031 | ,480 | ,003 | ,031 | ,002 | ,32 | | | | | |
| 171964 | ,071 | ,910 | ,210 | ,027 | ,017 | ,051 | ,160 | ,190 | ,034 | ,390 | ,003 | ,028 | ,005 | ,31 | | | | | |
| 171965 | ,112 | ,890 | ,190 | ,025 | ,021 | ,050 | ,170 | ,160 | ,032 | ,460 | ,003 | ,024 | ,004 | ,35 | | | | | |
| 171966 | ,090 | ,930 | ,190 | ,016 | ,023 | ,052 | ,150 | ,180 | ,040 | ,360 | ,003 | ,021 | ,003 | ,33 | | | | | |
| 171967 | ,077 | ,900 | ,200 | ,017 | ,020 | ,054 | ,140 | ,160 | ,035 | ,380 | ,003 | ,027 | ,003 | ,31 | | | | | |
| 171968 | ,065 | ,950 | ,200 | ,019 | ,020 | ,056 | ,170 | ,150 | ,042 | ,330 | ,003 | ,029 | ,004 | ,31 | | | | | |
| 172035 | ,071 | ,910 | ,210 | ,032 | ,021 | ,053 | ,230 | ,160 | ,033 | ,340 | ,003 | ,028 | ,004 | ,32 | | | | | |
| 172037 | ,067 | ,910 | ,180 | ,027 | ,022 | ,055 | ,210 | ,170 | ,033 | ,380 | ,003 | ,025 | ,004 | ,31 | | | | | |
| 172053 | ,097 | ,910 | ,230 | ,024 | ,022 | ,054 | ,200 | ,130 | ,033 | ,370 | ,003 | ,025 | ,005 | ,34 | | | | | |
| 172054 | ,070 | ,930 | ,220 | ,023 | ,021 | ,053 | ,170 | ,150 | ,033 | ,420 | ,003 | ,028 | ,004 | ,31 | | | | | |
| 172058 | ,063 | ,930 | ,200 | ,034 | ,030 | ,058 | ,190 | ,180 | ,048 | ,320 | ,003 | ,027 | ,003 | ,31 | | | | | |
| 172059 | ,068 | ,900 | ,200 | ,026 | ,022 | ,057 | ,190 | ,180 | ,054 | ,380 | ,003 | ,029 | ,004 | ,32 | | | | | |
| 172060 | ,069 | ,920 | ,180 | ,028 | ,026 | ,056 | ,160 | ,180 | ,043 | ,330 | ,003 | ,027 | ,004 | ,31 | | | | | |
| 172065 | ,080 | ,930 | ,190 | ,018 | ,021 | ,057 | ,140 | ,150 | ,031 | ,340 | ,003 | ,023 | ,004 | ,31 | | | | | |
| 172067 | ,075 | ,910 | ,180 | ,026 | ,022 | ,057 | ,180 | ,140 | ,027 | ,340 | ,003 | ,024 | ,003 | ,31 | | | | | |
| 172068 | ,071 | ,900 | ,210 | ,025 | ,020 | ,055 | ,220 | ,140 | ,035 | ,340 | ,003 | ,026 | ,005 | ,32 | | | | | |
| 172214 | ,066 | ,870 | ,190 | ,021 | ,021 | ,052 | ,130 | ,160 | ,036 | ,360 | ,003 | ,025 | ,004 | ,29 | | | | | |
| 172281 | ,063 | ,870 | ,180 | ,023 | ,018 | ,056 | ,170 | ,150 | ,025 | ,400 | ,003 | ,031 | ,005 | ,29 | | | | | |
| 172290 | ,097 | ,980 | ,210 | ,021 | ,018 | ,056 | ,180 | ,200 | ,038 | ,350 | ,003 | ,021 | ,004 | ,35 | | | | | |
| 172291 | ,089 | ,900 | ,190 | ,027 | ,019 | ,052 | ,210 | ,170 | ,036 | ,440 | ,003 | ,026 | ,003 | ,34 | | | | | |
| 172296 | ,075 | ,910 | ,190 | ,017 | ,023 | ,053 | ,150 | ,140 | ,030 | ,330 | ,003 | ,025 | ,003 | ,30 | | | | | |
| 172297 | ,072 | ,920 | ,190 | ,019 | ,024 | ,054 | ,160 | ,150 | ,033 | ,370 | ,003 | ,025 | ,004 | ,31 | | | | | |
| 172300 | ,067 | ,920 | ,180 | ,016 | ,021 | ,058 | ,120 | ,150 | ,029 | ,380 | ,003 | ,027 | ,003 | ,30 | | | | | |
| 172341 | ,059 | ,910 | ,200 | ,021 | ,023 | ,057 | ,140 | ,150 | ,029 | ,350 | ,003 | ,028 | ,004 | ,29 | | | | | |
| 172343 | ,068 | ,910 | ,180 | ,021 | ,020 | ,056 | ,130 | ,130 | ,028 | ,340 | ,003 | ,026 | ,003 | ,29 | | | | | |
| 172346 | ,073 | ,900 | ,200 | ,018 | ,022 | ,055 | ,120 | ,120 | ,025 | ,360 | ,003 | ,022 | ,003 | ,30 | | | | | |
| 172348 | ,075 | ,910 | ,200 | ,018 | ,023 | ,057 | ,110 | ,160 | ,037 | ,550 | ,003 | ,025 | ,002 | ,31 | | | | | |
| 172398 | ,090 | ,870 | ,170 | ,025 | ,022 | ,053 | ,190 | ,140 | ,039 | ,350 | ,003 | ,023 | ,002 | ,32 | | | | | |
| 172399 | ,065 | ,920 | ,180 | ,021 | ,021 | ,058 | ,160 | ,150 | ,037 | ,360 | ,003 | ,026 | ,003 | ,30 | | | | | |
| 172400 | ,076 | ,910 | ,190 | ,017 | ,020 | ,055 | ,180 | ,130 | ,037 | ,300 | ,003 | ,025 | ,004 | ,31 | | | | | |
| 172423 | ,081 | ,910 | ,200 | ,024 | ,021 | ,055 | ,210 | ,130 | ,029 | ,350 | ,003 | ,023 | ,003 | ,32 | | | | | |
| 172430 | ,072 | ,870 | ,200 | ,027 | ,023 | ,056 | ,180 | ,120 | ,024 | ,360 | ,003 | ,019 | ,002 | ,30 | | | | | |
| 172481 | ,087 | ,930 | ,200 | ,022 | ,022 | ,055 | ,240 | ,180 | ,035 | ,390 | ,003 | ,020 | ,003 | ,35 | | | | | |
| 172482 | ,074 | ,910 | ,200 | ,022 | ,022 | ,055 | ,220 | ,180 | ,042 | ,400 | ,003 | ,020 | ,003 | ,33 | | | | | |
| 172483 | ,088 | ,950 | ,190 | ,023 | ,021 | ,063 | ,200 | ,160 | ,037 | ,380 | ,003 | ,021 | ,001 | ,34 | | | | | |

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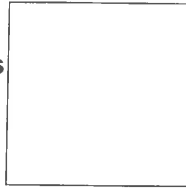


MILL TEST CERTIFICATE

OLA P-54101

| COLADA HEAT | COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) | | | | | | | | | | | | | | | | | | |
|------------------|---|--|------|-----------|------|-------------|------|------|------|------|------|------|------|-----|--|--|--|--|--|
| | C | Mn | Si | P | S | V | Cr | Ni | Mo | Cu | Nb | Sn | Al | CEV | | | | | |
| B08 | | | | | | | | | | | | | | | | | | | |
| 172487 | ,060 | ,910 | ,190 | ,024 | ,020 | ,055 | ,180 | ,140 | ,028 | ,370 | ,003 | ,022 | ,003 | ,30 | | | | | |
| 172488 | ,074 | ,860 | ,180 | ,023 | ,021 | ,058 | ,230 | ,150 | ,030 | ,420 | ,003 | ,026 | ,003 | ,32 | | | | | |
| 172489 | ,089 | ,870 | ,190 | ,022 | ,019 | ,056 | ,120 | ,110 | ,020 | ,350 | ,003 | ,021 | ,004 | ,30 | | | | | |
| 172490 | ,078 | ,840 | ,170 | ,022 | ,018 | ,055 | ,140 | ,120 | ,021 | ,400 | ,003 | ,023 | ,004 | ,30 | | | | | |
| MATERIAL SIZE | COLADA HEAT | PROPIEDADES MECANICAS MECHANICAL PROPERTIES | | | | | | | | | | | | | | | | | |
| | | ReH MPa | | Rm MPa | | A% L0=8" | | | | | | | | | | | | | |
| B11 | B08 | C11 | | C12 | | C13 | | | | | | | | | | | | | |
| W-10x12 | 172290 | 450 | 448 | 596 | 574 | 22,5 | 21,6 | | | | | | | | | | | | |
| W-10x12 | 172291 | 450 | 447 | 589 | 573 | 22,1 | 21,9 | | | | | | | | | | | | |
| W-10x15 | 172296 | 445 | 435 | 542 | 528 | 22,5 | 21,7 | | | | | | | | | | | | |
| W-10x15 | 172297 | 450 | 444 | 547 | 527 | 22,1 | 22,1 | | | | | | | | | | | | |
| W-10x17 | 172300 | 446 | 438 | 540 | 532 | 22,4 | 21,9 | | | | | | | | | | | | |
| W-10x22 | 172343 | 420 | 406 | 520 | 509 | 22,5 | 21,9 | | | | | | | | | | | | |
| W-10x26 | 172346 | 399 | 397 | 515 | 501 | 22,2 | 22, | | | | | | | | | | | | |
| W-10x26 | 172348 | 416 | 414 | 527 | 510 | 22,2 | 21,7 | | | | | | | | | | | | |
| W-10x30 | 169186 | 415 | 408 | 542 | 527 | 22,4 | 22, | | | | | | | | | | | | |
| W-10x30 | 172341 | 394 | 389 | 495 | 484 | 22,2 | 22, | | | | | | | | | | | | |
| W-10x49 | 171965 | 428 | 415 | 547 | 533 | 23, | 22,9 | | | | | | | | | | | | |
| W-10x49 | 171966 | 409 | 393 | 509 | 504 | 23,2 | 22,9 | | | | | | | | | | | | |
| W-10x49 | 171967 | 398 | 398 | 507 | 497 | 23,2 | 23,1 | | | | | | | | | | | | |
| W-10x49 | 171968 | 406 | 397 | 510 | 494 | 23,2 | 23,1 | | | | | | | | | | | | |
| W-10x60 | 172037 | 392 | 381 | 506 | 495 | 23,6 | 23,1 | | | | | | | | | | | | |
| W-12x19 | 172481 | 430 | 422 | 542 | 518 | 22,4 | 22,2 | | | | | | | | | | | | |
| W-12x19 | 172482 | 434 | 430 | 543 | 529 | 22,6 | 22,3 | | | | | | | | | | | | |
| W-12x19 | 172483 | 456 | 442 | 567 | 543 | 22,6 | 21,7 | | | | | | | | | | | | |
| W-12x22 | 172487 | 430 | 428 | 514 | 510 | 22,8 | 21,9 | | | | | | | | | | | | |
| W-12x22 | 172488 | 458 | 440 | 554 | 548 | 22,5 | 22,2 | | | | | | | | | | | | |
| W-12x22 | 172489 | 423 | 419 | 525 | 511 | 22,3 | 21,8 | | | | | | | | | | | | |
| W-12x22 | 172490 | 444 | 442 | 541 | 541 | 22,5 | 21,7 | | | | | | | | | | | | |
| W-12x65 | 172065 | 423 | 419 | 539 | 529 | 22,7 | 22,3 | | | | | | | | | | | | |
| W-12x65 | 172067 | 419 | 415 | 522 | 520 | 23,1 | 22,8 | | | | | | | | | | | | |
| W-12x65 | 172068 | 413 | 400 | 527 | 509 | 22,9 | 22,1 | | | | | | | | | | | | |
| W-14x26 | 170822 | 426 | 419 | 537 | 535 | 22,3 | 21,9 | | | | | | | | | | | | |
| W-14x26 | 172398 | 421 | 415 | 527 | 516 | 22,4 | 21,8 | | | | | | | | | | | | |
| W-14x26 | 172399 | 415 | 415 | 530 | 516 | 22,3 | 21,9 | | | | | | | | | | | | |
| W-14x26 | 172400 | 404 | 404 | 525 | 507 | 22,4 | 21,7 | | | | | | | | | | | | |
| W-14x26 | 172430 | 450 | 445 | 579 | 567 | 22,1 | 22, | | | | | | | | | | | | |
| W-18x71 | 171741 | 412 | 403 | 507 | 517 | 24,5 | 24, | | | | | | | | | | | | |
| W-21x44 | 172053 | 442 | 424 | 555 | 531 | 22,6 | 22,4 | | | | | | | | | | | | |
| W-21x44 | 172054 | 415 | 407 | 512 | 511 | 23,1 | 22,2 | | | | | | | | | | | | |
| W-21x44 | 172058 | 420 | 416 | 511 | 508 | 23,1 | 22,8 | | | | | | | | | | | | |
| W-21x44 | 172059 | 425 | 421 | 521 | 507 | 22,7 | 22,3 | | | | | | | | | | | | |
| W-21x44 | 172060 | 426 | 411 | 528 | 509 | 23,1 | 22,6 | | | | | | | | | | | | |
| W-21x50 | 172035 | 418 | 416 | 518 | 516 | 23,2 | 22,5 | | | | | | | | | | | | |
| W-21x62 | 171920 | 419 | 411 | 522 | 519 | 23,3 | 23,1 | | | | | | | | | | | | |
| W-21x62 | 171922 | 430 | 419 | 532 | 512 | 23, | 22,8 | | | | | | | | | | | | |
| W-21x68 | 171926 | 422 | 412 | 543 | 525 | 23,6 | 22,7 | | | | | | | | | | | | |

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 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-54101

| MATERIAL SIZE | COLADA HEAT | PROPIEDADES MECANICAS MECHANICAL PROPERTIES | | | | | |
|------------------|----------------|--|-----|-----------|-----|-------------|------|
| | | ReH MPa | | Rm MPa | | A% L0=8" | |
| B11 | B08 | C11 | | C12 | | C13 | |
| W-21x93 | 171936 | 409 | 394 | 542 | 510 | 23,4 | 23,6 |
| W-21x93 | 171937 | 435 | 421 | 562 | 540 | 23,4 | 23,1 |
| W-24x55 | 171933 | 427 | 413 | 523 | 517 | 22,9 | 22,5 |
| W-24x55 | 171940 | 415 | 405 | 527 | 511 | 23,5 | 22,8 |
| W-24x55 | 171942 | 450 | 448 | 575 | 556 | 22,7 | 22,1 |
| W-24x55 | 171943 | 437 | 422 | 528 | 524 | 22,9 | 22,4 |
| W-24x55 | 171944 | 413 | 409 | 516 | 511 | 23,3 | 22,9 |
| W-24x55 | 171964 | 424 | 414 | 522 | 505 | 22,8 | 22,5 |
| W-24x84 | 171885 | 406 | 390 | 509 | 504 | 22,8 | 22,5 |
| W-8x21 | 172423 | 415 | 403 | 529 | 513 | 23, | 22,2 |
| W-8x28 | 172214 | 442 | 424 | 558 | 546 | 23,4 | 22,5 |
| W-8x35 | 172281 | 408 | 402 | 505 | 504 | 23, | 22,3 |

52 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
 B06: Marca AMO

Responsable del Departamento de Calidad Z01


 Jose Maria Galindo