

M10614

P. 002

FAX No. 780 466 0371

C. W. CARRY LTD. - TRACE

TUE/07/JUL/2009 13:54

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DILLINGER HÜTTE

Erläuterungen siehe Rückseite/Explanations voir le verso/See reverse for explanations (www.dillinger.de/en/Info)

| | | | | | | | | | |
|--|---|--|---|--------------------|--------------------------------------|--------------------------------|-----------------------|-------------------------------------|---|
| A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004 INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991 MATERIAL TEST REPORT (MTR) | | A10 Address of dispatch No / Date of dispatch 297221-18.04.08 | A08 Manufacturer's order / A03 Certificate No. 335201-003 | Sheet 1/... | | | | | |
| A05 Established inspecting body DE | A06 Purchaser EDMONTON STEEL, EDMON Final receiver EDMONTON STEEL, EDMON | A07.1 No. E10477-J1010-LG-R01 | A01 Product HOT ROLLED PLATES | | | | | | |
| B02 Steel design SA516-70 | SA20-SS | | 14352 | | | | | | |
| B03 Any suppl. requirements DIL-HUE-4:R23-2007-11-20 | ASME-2A:07 | | | | | | | | |
| B01-B99 Description of the product | | | | | | | | | |
| B04 Item No. | B05 Qty Number of pieces | B03 Thickness | B10 Width | B11 Length | B12 Theoretical mass kg | B04 Product delivery condition | B17.4 Heat No. | B07.1 Rolled plate No / Test No. | A03 Purchaser article number |
| 04 | 1 | 5,0000 | 121,00000 | 252,00000 | 19612 | N | 320071 | 06825-01 | |
| 05 | 1 | 5,0000 | 121,00000 | 300,00000 | 23348 | N | 320075 | 07031-01 | |
| *** | 2 | | | | 42950 | | | | |
| B04 Product delivery condition | | | | | | | | | |
| ITEM NO.: 01-02,04-05 N: HT: 1670 GR.F +36 -27 GR.F SOAKING TIME TO ATTAIN THE TARGET TEMPERATURE OVER THE WHOLE SECTION: 1-1,75 MIN/MM (25-45 MIN/INCH) COOLING IN STILL AIR | | | | | | | | | |
| B06 Marking of the product | | | | | | | | | |
| ITEM NO.: 01-02,04-05 STEEL DESIGNATION SA516 70 MELBY SA516 60 MELBY HEAT NO. / TRADEMARK / ROLLED PLATE NO.-TEST NO. / INSPECTOR'S STAMP | | | | | | | | | |
| C10-C29 Tensile test | | | | | | | | | |
| B14 B07.2 Heat No. | B07.1 Rolled plate Test No. | B07.3 Reference (heat) treatment | C01 Temp. GR.F | C10 ksi RP02 | C11 ksi RP02 | C12 RM | C13 RM | A % | C14-C15 |
| 04 320071-06825 | 05 320075-07031 | | | K1 QV RT 45,1 | K1 QV RT 46,1 | 75,5 | 75,4 | 33,7 | 34,3 |
| A04 | | Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order. QM-System: Certification as per ISO 9001 | | | E. MUELLER Test House Manager | | Inspector's stamp | | AG der Dillinger Hüttenwerke Postfach 1580; D-66748 Dillingen/Saar Inspection department Date 23.04.08 |

REVIEWED
JUL 27 2009
BY:

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DILLINGER HÜTTE

Eigenschaften, siehe Rückseite/Properties voir au verso/See reverse for explanations (www.dillinger.de/en/eng/eng1)

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|---|--|--|---|--|---|---|---|--|--|--|--|---------------------------------------|--|--|--|
| A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004 INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991 MATERIAL TEST REPORT (MTR) | | A30 Edition of dispatch No./ Date of dispatch 197821-18.04.08 | A09 Manufacturer's order/ ASB Certificate No. 335201-003 | Sheet 3/... | | | | | | | | | | | |
| A05 Established inspecting body DX | A06 Purchaser First receiver EDMONTON STEEL, EDMON EDMONTON STEEL, EDMON | A07.1 No. E10477-J1010-LB-R01 | S01 Product NOT ROLLED PLATES | | | | | | | | | | | | |
| S02 Steel design SA516-70 | S02 Steel designation SA20-S5 | | | | | | | | | | | | | | |
| S03 Any suppl. requirements | ASME-2A:07 DIL-HOE-4, R23-2007-11-20 | | | | | | | | | | | | | | |
| C95 Ladle treatment | | | | | | | | | | | | | | | |
| ITEM NO.: 01-02,04-05 HEAT OF THE INDICATED ITEM: VACUUM DEGASSED / SULPHIDE SHAPE CONTROL | | | | | | | | | | | | | | | |
| C70-C99 Chemical composition % - Product analysis | | | | | | | | | | | | | | | |
| S07.2 Heat 320071 06823 320071 06825 320075 07035 320075 07037 | S07.1 Test No. 06823 06825 07035 07037 | C01 C 0,184 0,187 0,182 0,181 | SI 0,366 0,366 0,353 0,379 | MN 1,15 1,14 1,16 1,18 | P 0,009 0,009 0,009 0,009 | S 0,0013 0,0018 0,0016 0,0015 | N 0,0059 0,0061 0,0058 0,0064 | CU 0,038 0,040 0,023 0,024 | MO 0,009 0,010 0,009 0,013 | NI 0,042 0,044 0,039 0,043 | CR 0,215 0,213 0,209 0,213 | V 0,001 0,001 0,001 0,002 | NB 0,000 0,000 0,000 0,000 | SN 0,000 0,001 0,000 0,000 | TI 0,002 0,001 0,001 0,001 |
| S07.2 Heat 320071 06823 320071 06825 320075 07035 320075 07037 | S07.1 Test No. 06823 06825 07035 07037 | C01 B 0,0000 0,0000 0,0000 0,0000 | CA 0,0021 0,0020 0,0019 0,0017 | AL+T 0,033 0,032 0,035 0,041 | | | | | | | | | | | |
| C94 Product analysis - Carbon equivalent / Alloying restrictions | | | | | | | | | | | | | | | |
| S07.2 Heat 320071 06823 320071 06825 320075 07035 320075 07037 | S07.1 Test No. 06823 06825 07035 07037 | C01 KI FO-02 KI FO-02 KI FO-02 KI FO-02 | 0,43 0,43 0,28 0,29 | FO-55 FO-55 FO-55 FO-55 | 0,30 0,31 0,28 0,29 | | | | | | | | | | |
| | 23122022003 We hereby certify, (the materials) mentioned materials have been delivered in accordance with the conditions of our QM-System: Certification as per ISO 9001 | | | AHB | AG der Dillinger Hüttenwerke Postfach 1580, D-86748 Dillinger/Saar Inspection department | | | | | A01 | | | | | |
| Manufacturer's mark | Test House Manager B. MUELLER | Inspector's stamp Date 21.04.08 | Test House Mark | Inspector's stamp | Date 21.04.08 | KW 1 | | | | | | | | | |

C.W. CARRY LTD.
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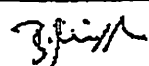

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DILLINGER HÜTTE

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|--|--|---|--|--|
| A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004 INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+AL:1995 + AS PER ISO 10474:1991 MATERIAL TEST REPORT (MTR) | | A10 Address of dispatch No./ Date of dispatch 297821-18.04.08 | A08 Manufacturer's order/ A03 Certificate No. 335201-003 | Sheet 4 |
| A06 Established inspecting body DE | A05 Purchaser EDMONTON STEEL, EDMON Final receiver EDMONTON STEEL, EDMON | A07.1 No. E10477-J1010-LG-R01 | A07.2 No. | B01 Product HOT ROLLED PLATES |
| D02 Steel design S2516-70 | SA20-85 | | | |
| E01 Any appl. requirements | ASME-2A:07 DIL-HUB-4:R23-2007-11-20 | | | |
| C84 Carbon equivalent formula / Alloying restrictions | | | | |
| FO-Q2 = C + (Mn/6) + (Cr+Mo+V)/5 + (Ni+Cu)/15 | | | | |
| FO-55 = Cu+Mn+Ni+Cr | | | | |
| FO-78 = Cr+Mo | | | | |
| FO-91 = Mn/C | | | | |
| D01 Marking and identification, surface appearance, shape and dimensional properties | | | | |
| ITEM NO.: 01-02,04-05 | | | | |
| RESULT OF MARKING, SURFACE, SHAPE AND DIMENSIONS: NO REMARKS | | | | |
| SURFACE AS PER ASME-SA20 | | | | |
| THICKNESS AS PER ASME-SA20 | | | | |
| LENGTH AND WIDTH AS PER ASME-SA20 | | | | |
| FLATNESS AS PER ASME-SA20 | | | | |
|  | | | | |
|  | | | | |
| A04  Manufacturer's mark | 20020203 We hereby certify that the above mentioned materials have been delivered in accordance with the terms of order. QM-System: Certification as per ISO 9001 | | | A01 |
|  B. NÜBELER Plant House Manager | |  AG der Dillinger Hüttenwerke Postfach 1589, D-66748 Dillingen/Saar Inspection department | | Inspected stamp Date 27.04.08 38 1 |