FOSECO, INC. HOT TOP DESIGN SHEET STEEL MILL PRODUCTS DIVISION

| DESIGN NO. | BOARD CONTOUR | REVISION | DATE | DESIGN BY |
|---|---|---|---|---|
| 143-2966-2P | CORR. | E | 3.9.71. | GF |

CUSTOMER U.S. STEEL - FAIRLESS WKS. LOCATION FAIRLESS PA.
MOLD (SIZE, TYPE, PRINT NO.) 29 x 66 x 80 BED - CORR. 182 D

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MOLD, HOT TOP - WEIGHT & VOL. CALCULATIONS: STEEL DENSITY @ 0.260 # CU.IN.
TOP CROSS SECTION 26 5/8 IN. X 64 3/4 IN. WITH 1 3/4 IN. CORNER RADIUS
TOP AREA 1640 - 426 LBS/IN. TOTAL MOLD VOLUME 138536 IN$^3$
HOT TOP HT. 13 IN. DISPLACED BY HOT TOP 21320 IN$^3$
INSERTED 13 IN. INTO MOLD INGOT BODY 117216 IN$^3$ 30476 LBS.
POURED 12 IN. INTO HOT TOP HOT TOP VOLUME 18336 IN$^3$ 4767 LBS.
FEED AREA 1528 GROSS INGOT 135550 IN$^3$ 35243 LBS.
INGOT BODY HEIGHT 67 IN. HOT TOP VOL. 13.5 %GROSS INGOT 17.6 TONS
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MATERIAL CALCULATIONS: TYPE OF HOT TOP 2-P. CORR. EP.3999

SIDES 58 5/8 LONGx 13 HIGHx 15/16 THICK 731 IN.$^3$ 22.5 LBS.EA. 2 REQ'D

ENDS _____ LONGx _____ HIGHx _____ THICK _____ IN.$^3$ _____ LBS.EA. ___ REQ'D

CORNER POST DESIGNATION _____ MARK _____ LBS.EA. _____ REQ'D

ONE PIECE _____ x _____ x _____ x HIGH x _____ THICK = _____ IN.$^3$

MATERIAL DENSITY EP.3999 @ 0.0308 LBS/IN$^3$ = 45.0 LBS.
_____ @ _____ LBS/IN$^3$ = _____ LBS.
45.0 LBS. TOTAL

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MOUNTING EQUIPMENT:

A. ATTACHED:
1. FA.302 HANGER 4 REQ. @$ _____ EA.
2. _____ @$ _____ EA.
3. _____ @$ _____ EA.
4. _____ @$ _____ EA.

B. PURCHASED SEPARATELY:
1. FA. 869-7 Z-HOOK 4 REQ. @$ _____ EA.
2. FB.856 LOCK RING 1 REQ. @$ _____ EA.
3. _____ @$ _____ EA.
4. _____ @$ _____ EA.
5. FRx.345 TOPPING COMPOUND 100 LBS. REQ'D IN 20 LB. BAG 2.35 THICK LAYE

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REVISION DETAILS:
WHAT CHANGED? EP.3999 WAS PROPAK 31

PRICE $9.90 FOB Cranberry

BY GF DATE 3.10.71.

ADDITIONAL REMARKS: _____

FOS-00-0000002464

PLAINTIFF'S EXHIBIT FOS-99

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