

**PLAINTIFF'S
EXHIBIT**

CSX-25

1-0508 REPLACE BOTTOMS NOS. 2 & 3-01
(486-5593) OPEN HEARTH FURNACES
FAIRFIELD STEEL MILL
HCH

McCool

486-5593
9000 - Cost

L. E. Clark -
HGMc:L FAIRFIELD STEEL -
OPEN HEARTH - REPLACE BOTTOM #3 O.H.

3 - copies L. E. Clark.
7- copies J. B. Mays.

486-90114

January 11, 1966

Quigley Company
415 Madison Ave.
New York, N.Y.

Fairfield Steel
Fairfield, Alabama
T. H. Walker
#1 Storehouse

140

Tons Hearthcrete "B"
(Do Not Substitute)

Note: Vendor to hold material until
released by Fairfield Works
Engineering Dept.

To be developed

486-90114

486-5593 - 9000 - Cost

yjmc

486-5593
9000 - Cost

L. E. Clark -
HGMC:L FAIRFIELD STEEL -
OPEN HEARTH DEPT. - REPLACE BOTTOM #3
O.H. FURNACE.

3 - copies L. E. Clark.
7 - copies J. B. Mays.
486-90122

January 17, 1966

H. K. F. T. C.

Harbison-Walker Refractories Co.

Fairfield Steel
Fairfield, Alabama

T. H. Walker
#1 Storehouse

PERICLASE HIGH MgO BRICK:

48,300	9" x 4-1/2" x 3" Straights (3" DIM. CRITICAL)
1,350	9" x 6-3/4" x 3" Straights (" ")
618	9" x 4-1/2" x 1-1/2" Straights (1 1/2" DIM. CRITICAL)
618	9" x 2-1/4" x 3" Straights (3" DIM. CRITICAL)

Note: VENDOR TO HOLD MATERIAL UNTIL
RELEASED BY FAIRFIELD WORKS
ENGINEERING DEPT.

SEE ABOVE

486-90122

486-5593 - 9000 - Cost

Done

486-5593
9000 - Cost

L. E. Clark -

HGMc/JHS:L

FAIRFIELD STEEL -

3 - Copies L. E. Clark.

7 - Copies J. B. Mays.

O.H. DEPT. - REPLACE BOTTOM #3 O.H.
FURNACE.

486-90282

February 9, 1966

Corhart Refractories Co.

Fairfield Steel
Fairfield, Alabama

T. H. Walker

#1 Storehouse (See Below)

CORHART RFG METAL ENCASED BRICK:

5832	13-1/2 x (4-1/2 - 4-5/16) x 3" #5 Key
2296	13-1/2 x (4-1/2 - 3-3/4) x 3" #7 Key
2584	15 x (4-1/2 - 4-5/16) x 3" #5 Key with pressed hole.
1368	15 x (4-1/2 - 3-3/4) x 3" #7 Key
184	Skewblocks - Dwg. TCI-138.
184	Skew Blocks - Dwg. TCI-140.
1200	18 x 4-1/2 x 3 Straights
100	18 x 6-3/4 x 3 Straights

3-1-66

486-90282

- 3 1/2 Pallets 13-1/2" Random Key Up Stock.
- 2 1/2 Pallets 15" Random Key Up Stock.
- 1 13-1/2" Pressure Block Dwg. 1R4-9

CONTOUR CONTROL STEEL DRAWING 1U3-16

- 58 T-Beams 16'-4" radius 12'-0" long.
- 250 Clips
- 1300 Tie Wires

The above brick to be palletized and shipped via truck to Fairfield Open Hearth Mixer Brick Shed.

DO NOT SUBSTITUTE

JHm

1-0508
9000 Cost

L. E. Clark, Jr.
HGM/JHS/aa

FAIRFIELD STEEL
REPLACE BOTTOM - NO. 3 OPEN HEARTH

486-90495

March 16, 1966

Corhart Refractories Company

Fairfield Steel
Fairfield, Alabama

T. H. Walker
No. 1 Storehouse

CORHART RFG METAL ENCASED BRICK

1200	18 x 4-1/2 x 3 Straights
100	18 x 6-3/4 x 3 Straights

DO NOT SUBSTITUTE

Note: These brick were ordered on 486-90282
but were deleted by Purchasing.

April 1, 1966

486-90495

1-0508 - 9000 Cost

2. om

1-0508
9000 - Cost

L. E. Clark -

HGMc:L FAIRFIELD STEEL -

OPEN HEARTH - REPLACE BOTTOM #2 O.H.
FCE.

3 - Copies L. E. Clark.

7 - Copies J. B. Mays.

486-90336

February 25, 1966

Quigley Company
415 Madison Ave.
New York, N.Y.

Fairfield Steel
Fairfield, Alabama

T. H. Walker
#1 Storehouse

140

Tons Hearthcrete "B".
(Do Not Substitute)

Note: Vendor to hold material until
released by Fairfield Works
Engineering Dept.

To be developed

486-90336

1-0508- 9000 - Cost

J. E. M.

1-0508
9000 - Cost

L. E. Clark -
HGMc:L FAIRFIELD STEEL -
REPLACE BOTTOM #2 OPEN HEARTH FCE.

3 - Copies L. E. Clark.
7 - Copies J. B. Mays.
486-90371

March 9, 1966

Fairfield Steel
Fairfield, Alabama

T. H. Walker
#1 Storehouse

GENERAL REFRACTORIES

PERICLASE HIGH MgO BRICK:

48,300	9" x 4-1/2" x 3" Straights
1,350	9" x 6-3/4" x 3" Straights
618	9" x 4-1/2" x 1-1/2" Straights
618	9" x 2-1/4" x 3" Straights

DO NOT SUBSTITUTE

Vendor to hold material until released
by Fairfield Works Engineering.

BRICK TO BE PALLITIZED

5-1-66

486-90371

1-0508 - 9000 - Cost

1-0508
9000 - Cost

L. E. Clark -

HGMC:L

FAIRFIELD STEEL -

REPLACE BOTTOMS #2 & #3 OPEN HEARTHS.

3 - Copies L. E. Clark.

7 - Copies J. B. Mays.

486-90648

April 13, 1966

Dixie Division

A. P. Green Co.

Birmingham, Alabama

Fairfield Steel
Fairfield, Alabama

T. H. Walker
#1 Storehouse

3

Tons Johns Manville "C3" Cement.

June 1, 1966

486-90648

1-0508 - 9000 - Cost

1-0508
9000 - Cost

2 Hmc

L. E. Clark -
HGMc:L FAIRFIELD STEEL
OPEN HEARTH - REPLACE BOTTOM - #2 O.H. FCE.

May 24, 1966

Corhart Refractories Company
Louisville, Kentucky

Fairfield Steel
Fairfield, Alabama
#1 Storehouse

T. H. Walker

CORHART 104 REFRACTORIES:

1092	15" #1 Wedge - drilled
936	15" #2 Wedge - drilled
78	15" #3 Wedge
2560	13-1/2" #1 Wedge
1440	13-1/2" #2 Wedge
80	13-1/2" #3 Wedge
1	13-1/2" Pressure Block - Dwg. 124-9
4	1/2 Pallets 13-1/2" Key Up Stock
3	1/2 Pallets 15" Key Up Stock

7-1-66

485-90786

CORBOND RFG-104 REFRACTORIES:

1344 12" #6 Key - Metal Encased - 3" Series
1728 12" #5 Key - Metal Encased - 3" Series
608 15" #5 Key - Metal Encased - 3" Series - with hole
304 15" #7 Key - Metal Encased - 3" Series
2 1/2 Pallets 12" Key Up Stock
1 1/2 Pallets 15" Key UP Stock
322 Skews - TCI-138
186 Skews - TCI-140

CONTOUR CONTROL STEEL 1U3-16:

60 Tee Beams - 16'-4" radius - 12' long.
24 Tee Beams - 19'-2" radius - 9'-9" long.
325 Clips
2400 Tie Wires

The above in accordance with Corhart quotation
dated 4-1-66 #3645 A & B.

BRICK TO BE PALLETIZED.

DO NOT SUBSTITUTE.

CONFIRMATION PHONED TO MR. J. A. WILKIRSON OF
CORHART REFRACTORIES CO. 5-24-66.

1-0508

9000 - Cost

3 - copies L. E. Clark.

7 - copies J. B. Mays.

L. E. Clark -

HGMC/RJN:L FAIRFIELD STEEL

OPEN HEARTH - REPLACE BOTTOM No. 2 O.H.

May 31, 1966

CORHART REFRACTORIES CO.

Fairfield Steel
Fairfield, Alabama
#1 Storehouse

T. H. Walker

3000 Lbs. C-104 Corhart Mortar.

To be shipped with Corhart Roof, reference order
486-90786.

CONFIRMATION PHONED TO J. A. WILKIRSON OF
CORHART REFRACTORIES CO. PER CONCURRENCE OF
C. B. BROOKS - 5-31-66.

July 1, 1966

486-90796

1-0508 - 9000 - Cost

MEMORANDUM

INSPECTION - #2 OPEN HEARTH SUBHEARTH BRICK

An inspection of Peratex Brick from General Refractories Morrisville, Pennsylvania, plant was conducted May 23-25, 1966. Ninety-five per cent of the brick order was inspected. The plant has operated intermittently the past few years and only very recently began manufacturing basic brick. This was the plant's first attempt at manufacturing Peratex Brick.

The per cent rejects during manufacture were very high due primarily to sticking together of the bricks. Bulk density (164 lbs./cu.ft.), cold modulus of rupture (2636-3305 psi), available from their quality control data, and the general appearance of the bricks were all good. Statistical sampling applied to one-third of the order was used to obtain variation in dimensions. Length and width were good and coincided with their quality control figures.¹ The variation on thickness was excessive and did not coincide with their measurements¹; also some arching was observed (thickness varied on same brick from side to side). As a result, statistical sampling was applied to determine thickness variation on all the brick available for inspection (95%).² Excessive thickness variation was confirmed.

General Refractories agreed to regage the entire order so that 95% of the brick would be within a 1/8" (.125") thickness range (2.90"-3.02").

Notes:

1. Table I, Attached
2. Table II, Attached

R. E. Middleton
Chief Ceramic Engineer

May 27, 1966

REM/t



TABLE II

THICKNESS - 3"

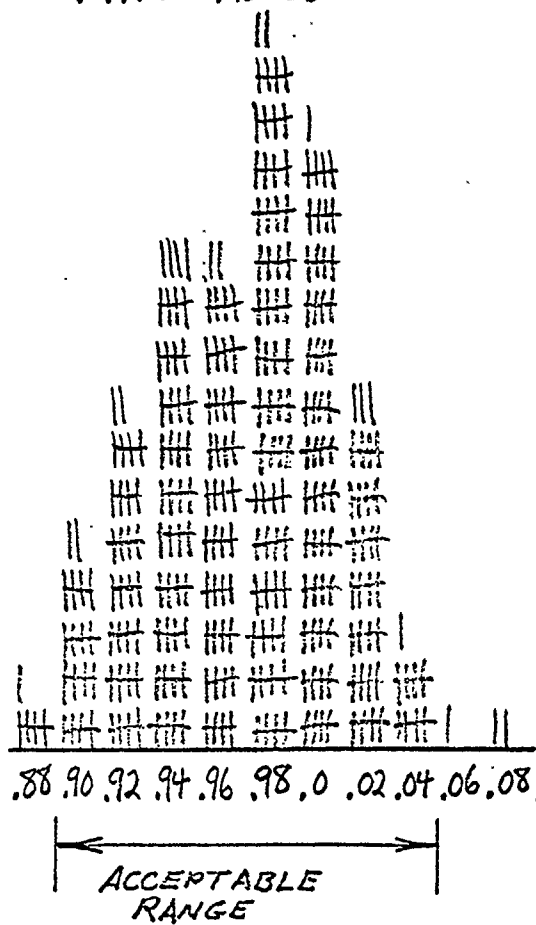
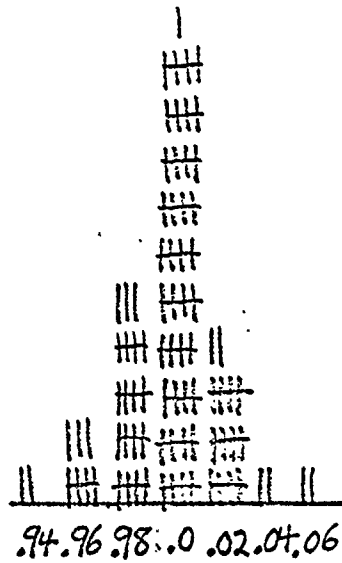
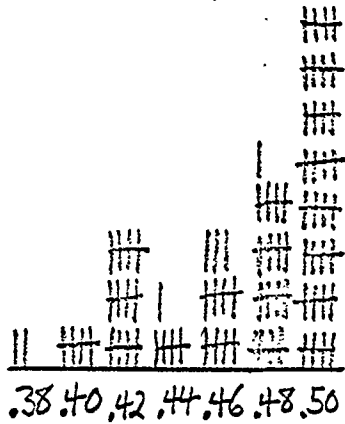


TABLE I

LENGTH - 9"



WIDTH - 4 1/2"



THICKNESS - 3"

