Revised 3/63

TO:	APPROVED BY
Purchasing	
Credit	
Legal	
Insurance	
Operating Vice President	

RETURN TO PURCHASING DEPARTMENT

PLAINTIFF'S EXHIBIT

ASA-1685

Construction or Repai
Contract Form PD-19
Under $100,000.00

ORDER NO. 12H-1292

FILE

CONTRACT FOR
Blast Furnace Baghouse
Stack and Breeching Erection
(Insert name of job)

AMERICAN SMELTING AND REFINING COMPANY'S El Paso Plant

at El Paso, Texas
(Insert town and state)

THIS AGREEMENT, made the 7th day of June, 1972,

by and between Southwestern Industrial Contractors & Riggers, Inc., whose address is P. O. Box 1611, El Paso, Texas 79948 (hereinafter called the "Contractor") and AMERICAN SMELTING AND REFINING COMPANY, a corporation of the State of New Jersey, whose address is 120 Broadway, New York 5, N.Y. and P. O. Box 1111, El Paso, Texas 79999 (hereinafter called the "Owner").
(Insert address of plant or unit)

WITNESSETH:

The Contractor and Owner agree as follows:

Article 1. Scope of the work

The Contractor shall furnish all shop drawings, field engineering, labor, tools, equipment, transportation, materials and other facilities, except such items as are hereinafter listed as being furnished or furnished and installed by the Owner for Blast Furnace Baghouse Stack and Breeching Erection (hereinafter called the "work")
(Insert name of job)

at the El Paso plant of the Owner at El Paso, Texas
(Insert town & state)

in accordance with the drawings and specifications listed below, all of which are incorporated herein by reference and made a part hereof:

(List Specifications and Drawings)

SWICAR Quote Dated 5-22-72

Article 2. Time of Completion

The work shall be commenced July 1, 1972 and shall be substantially completed August 31, 1972.

Article 3. Payment (to be deleted if progress payments are to be made)

The Owner shall pay the Contractor for the performance of this Contract, the sum of Twenty Thousand Seven Hundred and Thirty-Three dollars, ($ 20,733), lawful money of the United States of America within ~~xxxx~~ 30 days after satisfactory completion of the work and submission by the Contractor of evidence (including, if requested, complete releases of all liens arising out of or in connection with the work by all persons, firms or corporations on whose behalf such liens could be or were filed) satisfactory to the Owner that all charges for labor and material incorporated in the work and all other indebtedness connected with the work for which liens could be filed have been paid and that the work is free of all liens and encumbrances.

Article 3. Payments (to be deleted if progress payments are not to be made)

The Owner shall pay the Contractor for the performance of this contract, the sum of _____ dollars, ($_____), lawful money of the United States, as follows:

On or about the _____ day of each calendar month, commencing _____, 19___, the Owner shall pay the Contractor _____ per cent (_____%) based on the contract prices, of the labor and materials incorporated in the work and of materials suitably stored at the site thereof up to the end of the next preceding calendar month, as estimated by the Owner, less the aggregate of previous payments; and upon completion of the entire work, a sum sufficient to increase the total payments to _____ per cent (_____%) of the contract price. Final payment of the remaining (_____%) of the contract price shall be due _____ days after completion of the work.

Before each such payment is due, the Contractor shall submit evidence satisfactory to the Owner (including, if requested, partial waivers, or in the case of final payment, complete releases, of all liens arising out of or in connection with the work by all persons, firms or corporations on whose behalf such liens could be or were filed) that all charges for labor and material incorporated in the work and all other indebtedness (except, in the case of payments other than final payment, indebtedness not then due) connected with the work for which liens could be filed have been paid and that the work is free of all liens and encumbrances.

Article 4. Payments Withheld

The Owner may withhold all or part of any payment to the extent necessary to protect the Owner from loss or damage on account of (a) damaged or defective work not remedied, (b) claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor or the Owner (c) failure of the Contractor to make payments properly to Subcontractors or for material or labor, (d) a reasonable doubt that this contract can be completed for the balance then unpaid, or (e) damage to the Owner's property or the work of another contractor.

Article 5. Liens

If any lien remain unsatisfied after payment of the full contract price has been made, the Contractor shall refund to the Owner all moneys that the latter may be compelled to pay in discharging such lien, including all costs and a reasonable attorney's fee. The Contractor shall, at any time requested by the Owner, deliver a bond satisfactory to the Owner indemnifying it against any lien and expenses occasioned thereby.

Article 6. Title to the Work

Title to all work completed or in the course of construction shall be in the Owner; and title to all machinery, equipment and materials to be incorporated in the work shall be in the Owner as soon as they are delivered on the site of the job.

Article 7. Inspection and Repair

The Contractor shall provide safe and proper facilities at all times for the inspection of the work by the Owner, and shall as soon as practicable after written notice from the Owner, at the Contractor's expense, replace and repair any materials or portions of the work which the Owner shall deem defective and make good all work damaged or destroyed thereby, whether or not there shall be a dispute with respect to any of the foregoing. Any such dispute shall be settled by arbitration.

Article 8. Protection by Contractor

The Contractor at all times shall maintain adequate protection of the work from damage and shall protect the Owner's property and all persons thereon from injury, damage or loss by reason of any act or omission of the Contractor or any Subcontractor. The Contractor shall be responsible, and reimburse the Owner, for any loss or expense to the Owner arising from damage to the work or other property of the Owner caused by the wrongful act or neglect of the Contractor, any Subcontractor or the employees of the Contractor or any Subcontractor. Where such damage includes damage to the work it shall be repaired at the expense of the Contractor.

The Contractor shall use its best judgement and skill in dealing with labor matters, and take all reasonable steps to avoid labor dispute. In the event of any strike or threat of strike, slowdowns, featherbedding, or other like practices, the Contractor shall apprise the Owner of all relevent facts and implications of the particular labor problem involved, and shall consult in good faith with the Owner in an endeavor to reach a mutually satisfactory solution to such labor problem and, so far as reasonably possible, to protect the Owner against delays affecting the work or damage or losses to its other operations.

Article 9. Contractor's Liability Insurance

The Contractor shall maintain such insurance as will indemnify it against claims under workmen's compensation acts and against any other claims for damages for personal injury, including death, which may arise from operations under this contract, whether such operations be by the Contractor or any Subcontractor or anyone directly or indirectly employed by either of them.

Prior to commencement of this work the Contractor shall file with the Owner completed certificates of insurance in form of "Insurance Certificate" attached and shall provide insurance coverage in amounts not less then those stated therein.

Article 10. Indemnity by Contractor

The Contractor shall save harmless and indemnify the Owner from and against any expense, loss or damage on account of any claim, demand or suit made by any person whomsoever, including any employee of the Owner, which is in any way caused by or connected with, or grows out of the execution and performance of this contract by the Contractor or any Subcontractor; provided, however, that the Contractor shall not be required to indemnify the Owner against any loss caused solely by the negligence of willful fault of the Owner or its employees. The Contractor accepts all risk of injury or damage and all responsibility for any claims for damages whatsoever resulting from the use, misuse, or failure of any hoist, rigging, blocking, scaffolding, or other like or unlike equipment used by the Contractor or any Subcontractor, even though such equipment be furnished or loaned to the Contractor or any such Subcontractor by the Owner, and shall indemnify the Owner against all such claims.

Article 11. Owner's Responsibility for Certain Casualties

The Owner shall be responsible for all damage to the work, and to material, temporary structures, and equipment (excluding construction equipment not owned by the Owner) at the site of the job, which is caused by fire, windstorm, smoke, hail, aircraft, explosion, vehicles, riot or civil commotion.

Article 12. Compliance with Laws and Ordinances

The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations, bearing on the conduct of the work as drawn and specified. If the Contractor performs any work contrary to any such law, ordinance, rule or regulation, he shall bear all costs arising therefrom.

If for any reason the Contractor's or any Subcontractor's employees or agents acquire a status imposing liability on the Owner for employer's contributions or taxes under the Federal Insurance Contributions Act, the Federal Unemployment Tax Act, any State Unemployment Tax Act, or any other Act, the Contractor shall be exclusively liable for, and shall indemnify the Owner against, the same and agrees to comply with all such laws and regulations so as to relieve the Owner from any and all liability therefor and from the responsibility of making reports or keeping records with respect thereto.

Article 13. Patents

The Contractor shall indemnify and save harmless the Owner against and from any and all claims, losses, costs, damages, expenses, actions or other proceedings, growing out of or resulting from infringement of any patent by the Contractor or any Subcontractor in the performance of this contract, except that this provision shall not apply to patented articles or processes specified in drawing or specifications furnished by the Owner.

Article 14. Changes in the Work

The Owner, without invalidating this contract, may at any time order extra work or make changes by altering, adding to or deducting from the work. Such order may be made the Owner on its own behalf or at the request of the Contractor, upon discovery by the Contractor of any discrepancy between the plans and the physical conditions encountered. If such extra work or changes involve a change in cost, the contract price shall be increased or decreased by the fair value thereof. The Owner will itemize the changes to be made and upon receipt of written notice of same, the Contractor will submit promptly to the Owner, in triplicate, an itemized statement of his calculations of the adjustment in the contract price resulting from the changes or extra work. This must be done before work on the change is begun unless the Owner gives written order to proceed immediately. No work or change shall be made, except by written order of the Owner and no claim for an addition to the contract price shall be valid unless the additional work was so ordered. Any dispute under this Article shall be subject to arbitration.

Article 15. Owner's Right to Terminate Contract

If the Contractor should be adjudged a bankrupt, or make an assignment for the benefit of creditors, or if a receiver of the Contractor's property should be appointed or if the Contractor files a petition or if a trustee of the Contractor's property should be appointed under the reorganization or readjustment provisions of the Bankruptcy Act, or if the Contractor at any time should refuse or neglect to supply enough properly skilled workmen or proper materials, or if he should fail to make prompt payments to Subcontractors or for material or labor, or disregard laws, ordinances or the instructions of the Owner, or otherwise be guilty of a substantial violation of any provision of the contract which he shall have failed to correct promptly after service of written notice thereof by the Owner, then the Owner may, without prejudice to any other right or remedy, terminate the employment of the Contractor for the Contractor's default and take possession of the premises and of all materials, tools and appliances thereon and finish the work by whatever method the Owner may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price shall exceed all the general damages of the Owner caused by the Contractor's default, including the expense of finishing the work and compensation to the Owner for the Owner's managerial and administrative service, such excess shall be paid to the Contractor. If such damages shall exceed such unpaid balance, the Contractor shall pay the difference to the Owner. In the event the Contractor and the Owner are unable to agree upon the amount to be paid or reimbursed the dispute shall be settled by arbitration.

Article 16. Correction of Work after Payment

Neither payment nor any provision in this contract shall relieve the Contractor of responsibility for faulty materials or workmanship and the Contractor shall remedy any defects due thereto and pay for any damage to other work resulting therefrom which shall appear within one year from the date of completion of the Contractor's work hereunder. The Owner shall give notice of observed defects with reasonable promptness. Any dispute under this Article shall be subject to arbitration.

Article 17. Arbitration

All disputes which are herein stated to be subject to arbitration shall be submitted to and determined by arbitration. Except as and to the extent otherwise provided by the controlling state law, no party may have recourse to legal proceedings (other than to enforce this arbitration Article) unless and until an arbitration award has been made. There shall be one arbitrator who shall be chosen by the American Arbitration Association, whose arbitration rules shall be followed.

Article 18. Subcontracts

The Contractor will not employ any Subcontractor without the prior written approval of the Owner and the Contractor shall require each Subcontractor to execute a contract in writing containing provisions similiar to all provisions of this contract which are in any way applicable to such Subcontractor and which will obligate such Subcontractor to comply with and perform all such provisions herein. Nothing herein shall create a contractual relationship between any Subcontractor and the Owner.

Article 19. Assignment

The Contractor shall not assign nor subcontract this contract in whole or in part nor shall the Contractor assign any moneys due or to become due Contractor hereunder without the prior written consent of the Owner.

Article 20. Coordination of Work

The Contractor shall conduct the work hereunder so as to cause a minimum of interference with the Owner's operation. Where interference with the Owner's operations become absolutely necessary, permission shall be requested by the Contractor not less than seventy-two (72) hours in advance.

Article 21. Undertakings by the Owner

The Owner agrees to obtain and pay for any permits, licenses and easements required for permanent structures or changes, and, to the extent practicable without interference with operations, to furnish the Contractor, free of charge, for its use during construction, electricity, water, steam and compressed air required for construction purposes, at the voltage and pressure currently available at Owner's said plant, to a point adjacent to or within feet of the site, but the Contractor will be required to make the necessary connections, provide approved shut-off and safety devices and furnish and install all temporary lines required to bring them to the point of use.

Article 22. Applicable Law

This contract shall be construed and enforced in accordance with the laws of the state where the work hereunder is to be performed.

Article 23. Entirety Clause

This contract constitutes the entire agreement between the parties, and except as may be specifically set forth herein no changes can be made herein except by an agreement in writing duly executed by the parties or their duly authorized agents.

Article 24. Additional Provisions

(Add such additional provisions, if any, as the particular job requires).

IN WITNESS WHEREOF, the parties have executed this contract the day and year first above written.

SOUTHWESTERN INDUSTRIAL
CONTRACTORS AND RIGGERS, INC.
Contractor

By W Clay Fiske

Title President

AMERICAN SMELTING AND REFINING COMPANY
Owner

By J D Tillman

AMERICAN SMELTING AND REFINING JMPANY

FORM # INSURANCE-1 Revised 11/56

INSURANCE-CERTIFICAT

AMERICAN SMELTING AND REFINING COMPANY REQUIREMENTS FOR CONTRACTORS AND SUBCONTRACTORS.

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE DESCRIBED BELOW HAVE BEEN ISSUED TO _____

Southwestern Industrial Contractors and Riggers, Inc.

THESE POLICIES ARE NOW IN FORCE, COVERING WORK BY THE ASSURED FOR AMERICAN SMELTING AND REFINING COMPANY ON CONTRACT For Blast Furnace Baghouse Stack & Breeching Erection

AT El Paso Smelting Works, El Paso, Texas

IF THESE POLICIES ARE CANCELLED OR CHANGED IN ANY WAY THAT WILL AFFECT THIS CERTIFICATE, TEN DAYS' PRIOR WRITTEN NOTICE WILL BE GIVEN BY THIS COMPANY TO AMERICAN SMELTING AND REFINING COMPANY, SAMUEL METZGER, JR., 120 BROADWAY, NEW YORK, N.Y.

KIND OF INSURANCE	DESCRIPTION OF POLICY			REQUIRED MINIMUM
	NUMBER	EXPIRES	LIMITS OF LIABILITY	
CONTRACTOR'S PUBLIC LIABILITY (COMPREHENSIVE INCLUDING CONTRACTUAL)*				
BODILY-INJURY				
PROPERTY-DAMAGE				
CONTRACTOR'S PROTECTIVE LIABILITY				
BODILY-INJURY				
PROPERTY-DAMAGE				
AUTOMOBILE				
BODILY-INJURY				
PROPERTY-DAMAGE				
WORKMEN'S COMPENSATIC AND EMPLOYER'S LIABILITY				

DATE _____

_____ CITY _____ STATE _____ AUTHORIZED REPRESENTATIVE

*The Contractor shall save harmless and indemnify the Owner from and against any expense, loss or damage on account of any claim, demand or suit made by any person whomsoever, including any employee of the Owner, which is in any way caused by or connected with, or grows out of the execution and performance of this contract by the Contractor or any Subcontractor; provided, however, that the Contractor shall not be required to indemnify the Owner against any loss caused solely by negligence or willful fault of the Owner or its employees. The Contractor accepts all risk of injury or damage and all responsibility for any claims for damages whatsoever resulting from the use, misuse, or failure of any hoist, rigging, blocking, scaffolding, or other like or unlike equipment used by the Contractor or any Subcontractor, even though such equipment be furnished or loaned to the Contractor or any such Subcontractor by the Owner, and shall indemnify the Owner against all such claims.

QUOTATION

SOUTHWESTERN
INDUSTRIAL CONTRACTORS AND RIGGERS, INC.

Formerly: CONSTRUCTION DIVISION, SOUTHWESTERN TRANSFER CO., INC.

1730 Bassett Ave.
P. O. Box 1611
El Paso, Texas 79948
(915) 532-3491

American Smelting and Refining Company

P. O. Box 1111

El Paso, Texas

DATE 22 May 1972

PROJECT Lead Blast Furnace Stacks

LOCATION El Paso, Texas

We propose to furnish labor and equipment to perform the following services as itemized below:

1. Install 6 new plate insulated stacks $13,395.00
   a. Remove existing wood, transite and steel plate liners on towers
   b. Clean out debris from existing stack and breeching
   c. Install new insulated stacks and attach adapter to existing breeching
2. Install 6 new plate breeching with expansion joint $ 7,338.00
   a. Remove existing breeching and clean weld areas for installation of new breeching
   b. Install and weld six new breeching units with expansion joint. Design to be such that no more than 3 peripheral welds on each unit will be required

This proposal is based on the following conditions:

1. Crane access into site to be provided
2. Unloading suppliers trucks and installation of insulation to be by others

TOTAL — 20,733.00

NORMAL CONDITIONS OF ACCEPTANCE, SALE AND PAYMENT ARE STATED ON REVERSE SIDE OF THIS QUOTATION.

DATE 22 May 1972

PROJECT Lead Blast Furnace Stacks

LOCATION El Paso, Texas

3. Stacks to be taken out of service during our work with no delay between stacks

Respectfully submitted,

G. R. Hatch

GRH:iz

July 15th 3 a.m.

AMERICAN SMELTING AND REFINING COMPANY
EL PASO SMELTING WORKS
P. O. Box 1111
El Paso, Texas 79999

W. R. KELLY, Manager
P. A. DeSANTIS, Superintendent

ANDREW LIEBERT, Accounting Manager
R. O. COVINGTON, Supply Agent

November 19, 1970

AMERICAN SMELTING AND REFINING COMPANY

EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

Our Plant has a long-standing policy that its employment practices shall provide equal opportunity for all employees without regard to race, color, creed, sex or national origin.

We in ASARCO are ever mindful of our obligations and responsibilities to the Communities in which we operate and to the Nation as a whole. One of our chosen responsibilities is to insure equal employment opportunities for all, without regard to race, color, creed, sex or national origin--except where sex is a bona fide occupational qualification.

Our hiring practices, promotions and transfers at all levels of employment must continue to be based on an individual's qualifications and ability to perform satisfactorily the job requirements with due regard to seniority, while furthering the principles of Equal Employment Opportunity.

Within ASARCO our management must provide the lead in establishing procedures to continue successfully this declared policy of non-discrimination. The effectiveness of this policy requires a high degree of cooperation on the part of all ASARCO personnel, at every job level within the Company; as Supervisors you are responsible for the continued promotion and enforcement of this Policy throughout your organization.

Mr. A. R. Scasta, Personnel and Safety Director, will continue to administer our Equal Employment Opportunity Program. I know he will have your close and active cooperation in this matter.

W. R. Kelly

W. R. KELLY
MANAGER

EP-36

F. O. WITTWER

American Smelting & Refining Co.
El Paso Smelting Works
P.O. Box 1111
El Paso, Texas 79999

6 Weeks

Quotation & Drawing Attached. El Paso Machine & Steel Company and Ramsey Steel Company could Not Quote Due to Overload in Their Fabricating Shops & Could Not Meet Required Delivery. Ple. Place Order With Darbyshire Steel Co. As Soon As Possible.

3	Only	HH Stack Breechings
3	"	LH Stack Breechings
6	"	24" Square Bolted Access Doors
6	"	Mild Steel Expansion Joints

All Sandblasted and Painted 2 Coats
Coal Tar Epoxy Inside & One Coat Galva-Kote Outside

June 6, 1972

Lead - Blast Fce. Baghouse

PROPOSAL

DARBYSHIRE STEEL CO., INC.

STEEL WAREHOUSE

BARS-PLATES-SHAPES-SHEETS-SHAFTING

FABRICATORS STEEL BRIDGES BUILDINGS

ENGINEERS-FOUNDERS-MACHINISTS

El Paso, Texas 79912

June 1, 1972

Whse. and Sales
CANUTILLO, TEXAS
ODESSA, TEXAS
BROWNWOOD, TEXAS

Works and Office
CANUTILLO, TEXAS
Phone (915) 584-4401
Box 12803 • El Paso, Texas 79912

REFER TO FILE
455-E-72

American Smelting & Refining
P. O. Box 1111
El Paso, Texas

RE: Breechings & Expansion Joints
El Paso, Texas

Gentlemen:

We propose to furnish the following in accordance with Dwg. EP-3644.

3 - Stack Breechings as Shown
3 - Stack Breechings Opposite Hand
6 - Expansion Joints (10-Ga. M.S. Plate)
TOTAL PRICE: $8,299.00
(Includes 3/4 3/8 Round Nuts on Outside, 18" O.C. Both Ways All Around Stack Breechings)
Total Approx. Wt. - 9-1/2 Tons

Notes: 1. If 10-Ga. 316 S.S. Plate is furnished for Expansion Joint in Lieu of 10-Ga. M.S. Plate - ~~ADD: $5,102.00~~
2. Stack Breechings to be completely shop assembled.
3. Shop Paint: All surfaces sandblasted
Interior Two (2) Coats Coal Tar Epoxy (or Equal)
Exterior One (1) Coat Galva-Kote (or Equal)
(No Paint on Stainless Steel If Used)
4. Add for one (1) 2'-0" Sq. Manhole in Top SIDE of Each Breeching
(Total of six (6) Manholes)
Add Approx. 500 Lbs. - ADD: $ 320.00

Delivery: Six (6) Weeks After Receipt of Order. # 8619.00

Prices are F.O.B. Our Plant with Freight Allowed to Jobsite; You Unload.

Terms: Net cash 30 days, or 1/2 of 1% discount, if paid in 10 days from date of each invoice. In case payment is not made as agreed, you agree to pay interest on deferred payments from the time they are due at the rate of 8% per annum. And if this Contract is placed in the hands of an Attorney for collection, or if collected by suit, you agree to pay our reasonable attorney fees.

All payments under the terms hereof are due and payable in funds current at par in our office in the City of El Paso, Texas.

This Proposal is made for acceptance by you in writing within 30 days from this date, and shall become a contract only upon approval at our home office in El Paso, Texas, whereupon an executed counterpart of this Proposal, or letter confirming approval, will be delivered to you.

THIS PROPOSAL, INCLUDES THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE.

WE INCLUDE NO STATE SALES OR USE TAXES

Accepted, _____

Respectfully Submitted,
DARBYSHIRE STEEL CO., INC.

By _____

By ~~Richard A. Elfont, Sales Manager~~

Date _____

Approved _____

PLEASE SIGN ONE COPY AND RETURN TO US.

ADDRESS ALL COMMUNICATIONS TO THE COMPANY

JPB/sh

ACCEPTANCE OF YOUR ORDER IS SUBJECT TO THE APPROVAL OF OUR CREDIT DEPARTMENT

PROPOSAL

DARBYSHIRE STEEL CO., INC.

STEEL WAREHOUSE

BARS-PLATES-SHAPES-SHEETS-SHAFTING

FABRICATORS STEEL BRIDGES BUILDINGS

ENGINEERS-FOUNDERS-MACHINISTS

El Paso, Texas 79912

May 31, 1972

Whse. and Sales
CANUTILLO, TEXAS
ODESSA, TEXAS
BROWNWOOD, TEXAS

Works and Office
CANUTILLO, TEXAS
Phone (915) 584-4401
Box 12803 • El Paso, Texas 79912

REFER TO FILE

397-E-72, Rev. 1

American Smelting & Refining
P. O. Box 1111
El Paso, Texas

Attn: Mr. R. O. Covington

RE: Baghouse Stacks
El Paso, Texas
Our Job No. 20591-P

Gentlemen:

Please issue your Change Order for the following:

Additional Details as shown on Dwg. E-13237, Rev. B:
12 - Flanges, Detail 5
6 - Slip Flanges
12 - Angle Lifting Lugs
72 - Plate Lifting Lugs
Angles at Detail X-X
Approx. 2 Tons

NET ADD: $2,264.00
22400
24 664

Prices are F.O.B. Our Plant with Freight Allowed to Jobsite; You Unload.

Terms: Net cash 30 days, or ½ of 1% discount, if paid in 10 days from date of each invoice. In case payment is not made as agreed, you agree to pay interest on deferred payments from the time they are due at the rate of 8% per annum. And if this Contract is placed in the hands of an Attorney for collection, or if collected by suit, you agree to pay our reasonable attorney fees.

All payments under the terms hereof are due and payable in funds current at par in our office in the City of El Paso, Texas.

This Proposal is made for acceptance by you in writing within _____ days from this date, and shall become a contract only upon approval at our home office in El Paso, Texas, whereupon an executed counterpart of this Proposal, or letter confirming approval, will be delivered to you.

THIS PROPOSAL, INCLUDES THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE.

WE INCLUDE NO STATE SALES OR USE TAXES

Accepted, _____

Respectfully Submitted,
DARBYSHIRE STEEL CO., INC.

By _____

By _____
Richard A. Elfont, Sales Manager

Date _____

Approved _____

PLEASE SIGN ONE COPY AND RETURN TO US.

ADDRESS ALL COMMUNICATIONS TO THE COMPANY

JPB/sh

ACCEPTANCE OF ORDER IS SUBJECT TO THE APPROVAL OF OUR CREDIT DEPARTMENT

AMERICAN SMELTING AND REFINING CO. — El Paso Smelting Works Branch

P. O. BOX 1111 • EL PASO, TEXAS 79999

RELEASE AGAINST LOCAL BLANKET PURCHASE ORDER

RELEASE NO. 1861

DATE 5-31-72

☑ CONFIRMATION—do not duplicate

☐ NON-CONFIRMATION

☑ F. O. B. EL PASO SMELTING WORKS

☐ F. O. B.

Darbyshire Stul Co.

Ship PREPAID via

TERMS 1/2-10-30

Please deliver the following to El Paso Smelting Works under all terms and conditions of Blanket Order

QUAN.	UNIT	DESCRIPTION	ASARCO CODE	UNIT PRICE
		Addition of Bolometer Ports, Lifting Lugs	33/m	
		and Slip Flanges To BF BH Stacks. all		2264.00
		as Shown on Drawing E13237 Revision B		
		188. EP 567-50		
		12 \ 2264		
		12		
		106		
		96		
		104		
		96		
		80		

PLEASE COMPLETE THIS ORDER PROMPTLY.

DEPARTMENT

R D Lovington

PURCHASING AGENT

PAD

APPROVED

EL PASO, TEXAS • 5[illegible]503
PHOENIX, ARIZ. • 258-4591
ALBUQUERQUE, N. M. • 265-6758
ODESSA, TEXAS • 337-7324

geo. s. thomson co., inc.

Stocks June 23

8299.00 9½ TON 19000# 44'
+ 5102.00 SS
+ 320.00 Dock 500'

13721 w/SS EXPJT
8619 w/MS EXPJT

6WK

COST ESTIMATE

JOB REPLACING B.F. BAGHOUSE STACKS PLANT EL PASO
JOB NO. ____ AUTH. NO. ____ DRAWING NOS. E13237
MADE BY [illegible] DATE 5-24-72 CHECKED BY ____ DATE ____

GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	CODE No.	UNIT PRICES MATERIAL	UNIT PRICES LABOR	ESTIMATED COST MATERIAL	ESTIMATED COST LABOR	TOTAL ESTIMAT COST
								ACTUAL	
A	STEEL STACKS	6	20	0490					
	FABRICATED STEEL	80000#			@ 31¢			24664	2500
	UNLOADING							1000	100
	INSULATION	6600□'			@ 19¢			12195	13 00
	ERECTION (INCL REMOVAL)	80000#			@ 17.5¢			13395	14 00
	SUB TOTAL							51254	5300
	MISC & CONTINGENCIES	9½%							500
							TOTAL A		5800
B	STEEL STACK BREECHING	6	20	0490					
	FABRICATED STEEL	12000#			@ 40¢			8619	480
	EXPANSION JOINTS	3300#			@ 90¢				300
	UNLOADING							500	500
	ERECTION (INCL REMOVAL)	15300#			@ 49¢			7338	750
	INSULATION	1500□'			@ 218			3275	327
	SUB TOTAL							19732	1907
	MISC & CONTINGENCIES	15%							292
							TOTAL B		2200

51254
19732
70986

COST ESTIMATE

FORM 3024

JOB Replacing B.F. Baghouse Stacks PLANT El Paso

JOB NO. ..... AUTH. NO. ..... DRAWING NOS. .....

MADE BY D.A.Smyth DATE 5-24-72 CHECKED BY ..... DATE .....

GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	EST'D. DATE OF COMPL.	UNIT PRICES		ESTIMATED COST		TOTAL ESTIMAT COST
					MATERIAL	LABOR	MATERIAL	LABOR	
	Steel Stacks	6		7-31-72					580
	Steel Stack Breeching	6		8-31-72					2200
	Total								8000

ASARCO
PD 1 - REVISED 11/62

PURCHASE ORDER

PAGE 1 OF

DATE: 5/24/72

ORDER NO. 12H-1080

PLANT JOB NO.

APPROPRIATION NO.

AMERICAN SMELTING AND REFINING COMPANY

PURCHASING DEPARTMENT
120 BROADWAY, NEW YORK, N.Y. 10005

REQUISITION NO. EP-32

To: Darbyshire Steel Company
P.O. Box 12903
El Paso, Texas
Attn: Mr. D. Stephan

FINAL DESTINATION - PLEASE NOTE CONSIGNMENT BELOW

El Paso, Texas

(3420)

DATE REQUIRED AT DESTINATION:
30 Days - June 23rd, 1972

CONSIGNMENT - SELLER WILL SHIP TO
American Smelting & Refining Company
El Paso Smelting Works, El Paso, Texas
79999. Mail invoices to above at:
P.O. BOX 1111
- RENDER BILLS AS PER ATTACHED SHIPPING INSTRUCTIONS -

SHIPPING INTERVAL PROMISED: One month

SELLER WILL SHIP BEFORE: ~~June 23, 1972~~

POINT OF SHIPMENT.

TERMS ~~4/NLY 7th~~ ½ of 1% 10 Days

F.O.B. POINT: Trucks El Paso Texas Buyer's Plant

SHIP VIA

QUANTITY	UNIT	SPECIFICATIONS	ITEM NO.	UNIT PRICE
6 Only		Steel Stacks As Per Dwg. E 13237 6 Top Stack Sections 6 Bottom Stack Sections Above Price includes: a) 1/8" Asbestos Gaskets b) Sand blasting interior and exterior c) Painting interior with 2 coats of Coal tar Epoxy d) Painting exterior with one coat Galva-Kote e) Bolts for flange detail 3 only Ref: Your quotation #397-E-72 dated May 11th, 1972. NOTE: Confirms Telephone Order Given Your Mr. H. Smith On May 23rd, 1972. Please Do Not Duplicate.	1	$22,400.00

7-27-72
8-2-72
8-7-72
8-15-72
8-24-72

COPY

IMPORTANT *This order is not binding on purchaser unless the attached acknowledgment card is signed by an authorized agent of seller and returned promptly to purchaser.*

QG

FOR PURCHASING DEPARTMENT USE ONLY

TVO $22400.00 URGER CC 902 PC 206

DISTRIBUTION: 3-Plant

ASARCO PD 1B
REVISED 5/69-

Purchase Order
CONTINUED

DATE: 5/24/72

ORDER NO. 12H-1080

REQUISITION NO. EP-32

PLANT JOB NO.

APPROPRIATION NO.

INSTRUCTIONS

IMPORTANT Supplier will be held responsible for strict compliance with the following marked ☒ instructions and any departure will render you liable for consequent expense incurred.

Packaging — Packaging to insure safe arrival at destination is to be in proper and substantial:

- ☐ Wood cases — steel strapped
- ☐ Paper board cartons — wire strapped.
- ☐ Standard export packaging.
- ☒ Domestic cartons or packaging.
- ☐ Lightweight cartons for air freight or parcel post shipment.
- ☒ Cost of packaging included in purchase price.
- ☐ Cost of packaging is not to exceed _____

Federal Excise Tax

- ☐ This order is exempt from Federal Excise Tax as we have complied with the registration requirements of section 4222 of the International Revenue Code of 1954.

Invoicing

- ☐ Payment of duty at the foreign port of entry is based on original value, and no allowance is made for trade and cash discounts; therefore only actual net itemized prices must be shown on the invoices. List prices, trade and cash discounts must not appear.

Consignment — Unless Indicated on the first page of this Purchase Order the Following Is to Apply:

- ☐ Northen Peru Mining Corp.
  For Export to Peru
  c/o Seven Santini Brothers (WHSE)
  58-35 47th Street
  Maspeth, L.I., New York 11378
- ☐ Telegraph or Telephone
  Northern Peru Mining Corp.
  Adam Hunter Export Traffic Mgr.
  120 Broadway
  New York, New York 10005
  When Material is ready for shipment
- ☐ Northern Peru Mining Corp.
  (For Export to Peru)
  Hold And Notify
  Adam Hunter Export Traffic Mgr.
  120 Broadway
  New York, New York 10005
- ☐ Neptune Gold Mining Co.
  New Orleans, La.
  For Export to Bonanza, Nicaragua
  c/o H.S. Renshaw Inc.
  709 Pan American Building
  New Orleans, La. 70130
- ☐ This order is to be consigned in accordance with the attached special instructions.

General Instructions

- ☒ 1. Each article or package must bear our order and requisition number.
- ☒ 2. When ready, ship in accordance with above consignment and routing as specified on First Page.
- ☐ 3. Please prepay transportation charges to the port. If charges are for our account, render separate invoice therefore, supported by receipted freight bill.

Marks & Numbers

- ☐ Each package or piece comprising the shipment must be plainly stencilled in large, easily legible characters on both ends, as follows:

ORDER NO. _____

REQ. NO. _____

and number consecutively from _____, using as many numbers as required.

Do not use numbers or marks other than those shown above. No two packages should bear the same number. Gross weight in kilos must be shown on each package.

Preparation of Documents

- ☐ 18 Invoices must be certified true and correct and must show country of origin. Invoices and packing lists must reflect accurately in every detail the actual marks on the packages and must show the number of packages, package numbers, and the following data, showing all weights in pounds and kilos and the respective totals thereof:
  Net weight and value of each article
  Net, gross, legal weights and dimensions of each package.
  Full description of each article (Do not use general terms).

Disposition of Documents

- ☐ 18 Copies of packing lists and invoices, together with a railroad bill of lading in duplicate (if shipment originates inland), must be mailed to our Purchasing Department on date of shipment.
- ☒ Original and two copies of itemized invoices packing list and original bill of lading to be mailed to the consignee.
- ☐ This order is to be invoiced in accordance with the attached special instructions.

Note: If necessary to phone regarding these shipping instructions or delivery call
REctor 2-9500 EXT. _____

PLEASE ENTER OUR ORDER FOR THE ITEMS SPECIFIED ABOVE, SUBJECT TO ALL INSTRUCTIONS AND PROVISIONS ON REVERSE SIDE.

BY _____
PURCHASING AGENT

COPY

BFBH STACK SKEECHING

	$18\frac{1}{2} \times 3/16 \times 5\text{-}4$	8.21
1 PL	$70\frac{1}{2} \times 3/16 \times 8\text{-}11\frac{1}{4}$	52.55
1 PL	$71\frac{1}{2} \times 3/16 \times 6\text{-}11\frac{1}{4}$	41.35
1 PL	$60 \times 3/16 \times 6\text{-}11\frac{1}{4}$	34.69
1 PL	$71\frac{1}{2} \times 3/16 \times 8\text{-}11\frac{1}{4}$	52.26
	$5\ 3/4 \times 3/16 \times 4\text{-}5\frac{1}{4}$	3.08
1 PL	$6 \times \frac{1}{4} \times 7\text{-}11\frac{1}{4}$	

$7.65 \times 193.14 = 1478^{\#}$

$10.2 \times 4 = 41^{\#}$

$\angle 3 \times 3 \times \frac{1}{4} \times 28'$
$\times 21'$ $\Big\rangle$ $50' \times 4.9$ 245

$\angle 2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4} \times 29$
$\times 25$ $\Big\rangle$ $55' \times 4.1$ 226

1990

$2000 \times 6 = 12000^{\#}$

EXTENSION JOINT

2 PL $27\frac{1}{2} \times {}^{\#}10 \times 7\text{-}8\frac{1}{4}$

2 PL $27\frac{1}{2} \times {}^{\#}10 \times 8\text{-}2\frac{1}{4}$

$73 \times 5.625 = 411^{\#}$

$\angle 3 \times 3 \times \frac{1}{4} \times 28' - 28 \times 4.9 = 137^{\#}$

548

$550 \times 6 = 3300^{\#}$

BF BH STACKS

STACKS	80000 @ .31 = 1600	25000
UNLOADING		1000
INSULATION	6600□' @ 1.97	13000
ERECTION	80000 @ .175	14000
		53000
	+10%	5000
		58000

BF BH BREECHING

STEEL	12000# @ 40¢	4800
EXP JT	3300# @ 90¢	3000
UNLOADING		600
ERECTION		7500
INSULATION	1200□' @ 2.13 2.50	3275 ~~3000~~
		18075
	+15%	2925 ~~3200~~
		22000

80,000

PROPOSAL

WE NG & FABRICATING STRUCTU L STEEL WAREHOUSE

EL PASO MACHINE & STEEL WORKS, INC.

(915) 533-7482 1600 E 4TH AVE.
P. O. BOX 9397 EL PASO, TEXAS 79984



Bid No. 7756 Date May 9, 1972

To ASARCO Subject Inc. #696 - Steel Stacks
BF BAGHOUSE STACKS

Architect

We propose to furnish, subject to the conditions and terms stipulated hereon, FOB Trucks - Jobsite switching, spotting or other delivery charges at destination not included, the following material in accordance with plans and specifications:

6 Only Steel Stacks As Per Dwg. E 13237 & Consisting Of:
6 Botton Stack Sections
6 Top Stack Sections

All For The Sum Of .....$ 24,781.00

No Sales Tax Is Included.

This Bid Is Limited To Materials Listed Here-On.

Approx. Wt. 38 Tons

Note: No Gaskets Or Insulation Included.

TERMS: NET CASH 30 Days, or ½ of 1% discount if paid in 10 days from date of invoice. In case payment is not made as agreed, you agree to pay interest on deferred payments from the time they are due at the rate of 8% per annum, AND if this Contract is placed in the hands of an Attorney for collection, or if collected by suit, you agree to pay our reasonable attorney fees. All payments under the terms hereof are due and payable in funds current at par in our office in the City of El Paso, Texas.

The above quoted prices are for prompt acceptance and this proposal shall become a contract only upon approval by our office, at which time, confirmation of the approval will be given you

The above proposal including terms and conditions hereon and on the reverse side of this page, is hereby accepted.

EL PASO MACHINE & STEEL WORKS, INC.

By W. B. Orme-Johnson-Jr., President

Approved Date

By:

Title Date

RAMSEY STEEL COMPANY, Inc.

4137 ROSA AVE. • BOX 3627 • 915-532-2686 • EL PASO, TEXAS 79923

STEEL DISTRIBUTORS
STEEL FABRICATORS
STRUCTURAL ENGINEERS

May 4, 1972

American Smelting & Refining Co.
Post Office Box 1111
El Paso, Texas

Gentlemen:

We regret to be unable to send a quotation on your Inquiry 696. Our present shop loads make it impossible to undertake your request. Please keep us in mind for any future jobs.

Very truly yours,

RAMSEY STEEL COMPANY, INC.

Eugene R. Nichol

Eugene R. Nichol
Chief Estimator

ERN:aja

Please refer to our 397-E-72

REQUEST FOR QUOTATION

AMERICAN SMELTING AND REFINING COMPANY
EL PASO SMELTING WORKS BRANCH
P. O. BOX 1111 - EL PASO 46, TEXAS

INQUIRY NUMBER
696
May 2, 1972

Darbyshire Steel Company
P.O. Box 12903
El Paso, Texas 79912

Shipping Date Promised One (1) Month A.R.O.
Terms of Payment 1/2%-10 days; net 30 days.
Point of Shipment Canutillo, Texas
F.O.B. Point Trucks, El Paso, You Unload.
Freight Rate _____
If quotation is f.o.b. shipping point freight rate and weight must be shown.

DESTINATION El Paso Smelting Works, El Paso, Texas BF BH STACKS

Please quote on the following and indicate in the spaces provided above and below the required information.

QUANTITY	ARTICLES	ITEMIZED PRICE
6 Only	Steel Stacks As Per Dwg. E 13237 6 Top Stack Sections 6 Bottom Stack Sections 1/8" Asbestos Gaskets Sand Blast Interior and Exterior Paint Interior with 2 Coats of Coal Tar Epoxy Paint Exterior with one coat Galva-Kote (Includes bolts for Flange Detail 3 Only)	
	TOTAL PRICE:	$22,400.00

THIS IS NOT AN ORDER

EQUIPMENT, SUPPLIES AND SERVICES SUPPLIED BY YOU MUST MEET FEDERAL GOVERNMENT OSHA STANDARDS.

AN EQUAL OPPORTUNITY EMPLOYER

PLEASE QUOTE UNIT PRICES AND EXTENSIONS

Please note our price does not include sales or use taxes.

Delivery date required at destination As Soon As Possible

All federal, state and local taxes which will be charged to or will be reimbursed by Buyer must be separately shown on Bidder's quotation. All taxes not so specified must be paid by Seller and not charged to Buyer.

R. O. COVINGTON
XXXX

RECEIVED

MAR 8 1972

W. R. KELLY

Salt Lake City, Utah
March 6, 1972

Mr. W. R. Kelly DeSANTIS
El Paso, Texas

Mr. S. M. Lane
East Helena, Montana

In view of current difficulties at El Paso regarding lead emissions, I want to determine immediately what is required to install "tattletales" on baghouse exhausts so that the operators will be alerted at once when a bag failure causes a rise in particulate emissions. Perhaps Mr. Donoso can assist you in the selection of such an instrument. I believe it should be tied to a recorder so that supervision can tell if the operators react promptly to shut down chambers which require attention.

LEE C. TRAVIS

LCT/rp
cc: K.D.Loughridge
E.H.Haug
J.J.Donoso
K.W.Nelson

Blind Note to Mr. Kelly:

The four stacks on your blast furnace baghouse also need replacement. Perhaps prefabricated stacks can be lifted into position with a large crane - at least it is worth considering. Please have your Engineering Department look into this and give us your recommendation so that we can obtain approval to proceed with this needed repair.

3/13/72

WRN

Please look into and let me know.

PAD

L.C.T.

COST ESTIMATE

FORM 302A

JOB RENOVATION OF BLAST FURNACE B.H. STACKS PLANT EL PASO

IOB NO. ..... AUTH. NO. ..... DRAWING NOS. E22782

ADE BY B.L. ASER DATE 3-17-72 CHECKED BY ..... DATE .....

GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	~~EST'D. DATE OF COMPL.~~ CODE	UNIT PRICES MATERIAL	UNIT PRICES LABOR	ESTIMATED COST MATERIAL	ESTIMATED COST LABOR	TOTAL ESTIMAT COST
	SIX STEEL STACKS	72000#	10	0490	@ 40 ¢/#				2880
	SAND BLASTING & PAINTING INTERIOR WITH EPOXY COATING	6600ft²	10	0490			2000	3400	540
	SAND BLASTING & PAINTING EXTERIOR	6600ft²	10	0490			700	1700	240
	INSULATION & WEATHER-PROOFING	6600ft²	15	0367	@ 2.50				1650
									5310
	MISC & CONTINGENCIES	15%							800
	ENGRG & SUPV	7½%							390
	TOTAL								6500

COST ESTIMATE

FORM 2024

JOB RENOVATION OF BLAST FURNACE B.H. STACKS PLANT EL PASO

JOB NO. ..... AUTH. NO. ..... DRAWING NOS. E-22877

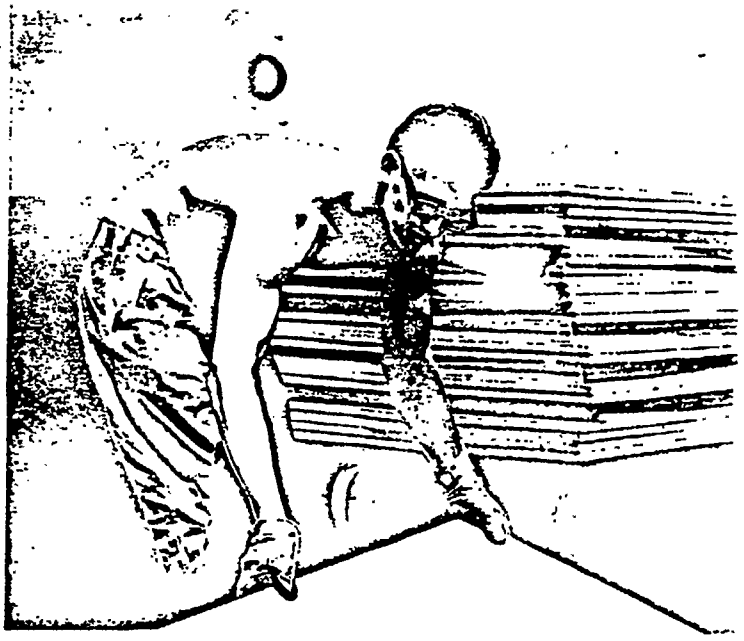
IDE BY GLASER DATE 3-17-72 CHECKED BY ..... DATE .....

GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	EST'D. DATE OF COMPL.	UNIT PRICES		ESTIMATED COST		TOTAL ESTIMATE COST
					MATERIAL	LABOR	MATERIAL	LABOR	
	SIX-55' STEEL STACKS INCLUDING FABRICATION, PAINTING, INSULATING & ERECTION			7-31-72					6500

Johns-Manville

PRODUCT INFORMATION

type: Rigid Board
temp limit: 400F



J-M TANK TOP INSUL*

rigid board insulation

DESCRIPTION: J-M Tank Top Insul is a rigid insulating material of mineral composition processed to form a lightweight, moisture-resistant board suitable for use to 400F. A top coating provides a tough, hard surface which reduces bitumen penetration and facilitates weatherproofing.

AVAILABLE FORMS: Tank Top Insul is furnished in one size, 24" wide by 48" long. Thicknesses — 1" to 3" in ½" increments. Supplied in tube-type Kraft paper wrap package.

USES: Tank Top Insul is ideal for insulating all flat top surfaces of heated tanks and vessels such as in petroleum, chemical, and industrial installations.

ADVANTAGES:

Permanent

Chemically inert and basically inorganic. It is sturdy, rigid and dimensionally stable.

Easy Application

Lightweight, easy to handle, easy to cut and shape on the job.

Incombustible

Because of its mineral composition, J-M Tank Top Insul will not burn.

Resists Compression

Not damaged by heavy equipment and foot traffic during construction and maintenance. Tank Top Insul retains its compressive strength when heated.

Thermally Efficient

Tank Top Insul has a thermal conductivity of 0.38 Btu in. per sq ft hr per F at 100F mean.

Moisture Resistance

Tank Top Insul has no capillarity and low water absorption.

Low Bitumen Absorption

Tank Top Insul can be weatherproofed with either built-up roofing or sheet metal. It resists excessive bitumen absorption insuring good adhesion of weatherproofing.

* *Johns-Manville Trade Mark*

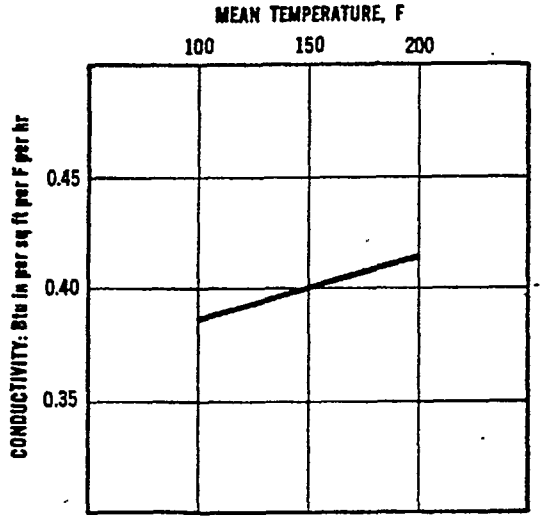
Geo. S. Thomson Co., Inc.
Industrial Supplies
EL PASO · PHOENIX · ALBUQUERQUE · ODESSA · CHIHUAHUA

TANK TOP INSUL
Specification Data

PHYSICAL PROPERTIES

Density, pcf	11
Compressive Strength Consolidation	5% at 26 psi load 10% at 44 psi load 50% at 175 psi load
Capillarity	0
Water Absorption submerged — 24 hrs — 5.0 percent by volume	
Temperature Limit	400F

THERMAL CONDUCTIVITY: BTU IN. PER SQ FT PER F PER HR.



General Headquarters, 22 East 40th Street, New York, N.Y. 10016

Offices in principal cities

IN-584A 5-66

Litho in U.S.A.

COST ESTIMATE

FORM 302A

JOB RENOVATION OF B.F. BAGHOUSE STACKS ..... PLANT EL PASO

JOB NO. ..... AUTH. NO. ..... DRAWING NOS. .....

MADE BY GLASER ..... DATE ..... CHECKED BY ..... DATE .....

GROUP NO	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	EST'D DATE OF COMPL.	UNIT PRICES MATERIAL	UNIT PRICES LABOR	ESTIMATED COST MATERIAL	ESTIMATED COST LABOR	TOTAL ESTIMATED COST
	[redacted]	68800# @ 25¢ 40¢							17200
	[redacted] ST & APPLY EPOXY TO [redacted] TWO COATS				500		1500	3000	4500
	SAND BLAST & APPLY ONE COAT GALVA-KOTE TO EXTERIOR						500	1700	2200
	INSULATION & WEATHER-PROOFING						3000	25 $/FT²	
	ERECTION - CRANE	8 HRS @ $40							
		3 DAYS @ 300							900
									26000
	MISC & CONT 8%								2000
	ENGR & SUP. 8%								2000
									$30,000

[redacted]

COST ESTIMATE

FORM 302A

JOB RENOVATION OF B.E. BAGHOUSE STACKS PLANT EL PASO

JOB NO. ..... AUTH. NO. ..... DRAWING NOS. E-22782

MADE BY BLASER DATE ..... CHECKED BY ..... DATE .....

GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D. LIFE	EST'D DATE OF COMPL.	UNIT PRICES MATERIAL	UNIT PRICES LABOR	ESTIMATED COST MATERIAL	ESTIMATED COST LABOR	TOTAL ESTIMATED COST
	[redacted] LINER	68800# @ 25¢/#							17200
	[redacted] ST & APPLY INTERIOR						1500	3000	4500
	SAND BLAST & PAINT EXTERIOR						500	1700	2200
	INSULATION & WEATHER PROOFING						3000	1700	4700
	CRANE FOR ERECTION	3 days @ $300							900
									29500
	ENGR. & SUPV. 7½%								2200
	MISC. & CONT. 7½%								2300
	TOTAL								34000

1100 FT² @ 10 /FT² = 11000 /.

2x2x¼"L 20' x 17 = 340' x 1.65 = 1000 #

12000 # STEEL / STACK @ 40¢ = $4800

1100 FT² INSULATION @ 2.50 = $2750

SAND BLAST & PAINT

INTERIOR 400

EXTERIOR 900

$8850

6

53100

DURAMESH

0490-20 72000 # STEEL — 28800

6600 FT² INSULATION - 16500

PAINT INTERIOR 2400

" EXT. 5400

53100

30% 15900

69000

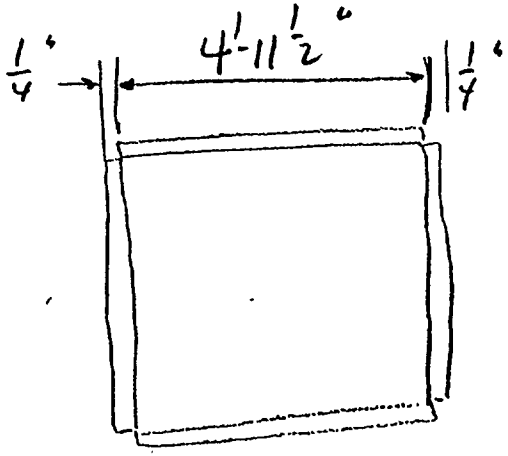
DURAMESH -

J.M TANKTOP -

INSULCOTE -

CRANE $400 SET UP TIME

$400/DAY



MEMBER
INSULATION DISTRIBUTOR-CONTRACTORS NATIONAL ASSOCIATION

WILLARD A. SELLE, Inc.

Insulation Contractors & Distributors

215 POPLAR ST. • EL PASO, TEXAS 79901 • TELEPHONE 542-1877

June 18, 1969

Mr. Carl Glaser, Engineering Dept.
American Smelting & Refining Co.
P.O. Box 1111
El Paso, Texas 79946

Re: Insulation for Two 55 - Foot Stacks

Dear Mr. Glaser:

In accordance with our telephone conversation of June 16, 1969, we are sending you some insulation manufacturer's product data sheets.

These sheets outline the properties of both calcium silicate and glass fiber insulating material. Either of these products would be excellent for the stacks you mentioned. Both, of course, would have to be weatherproofed.

We will be happy to provide you with any additional information we have. Please call on us if we may be of service to you.

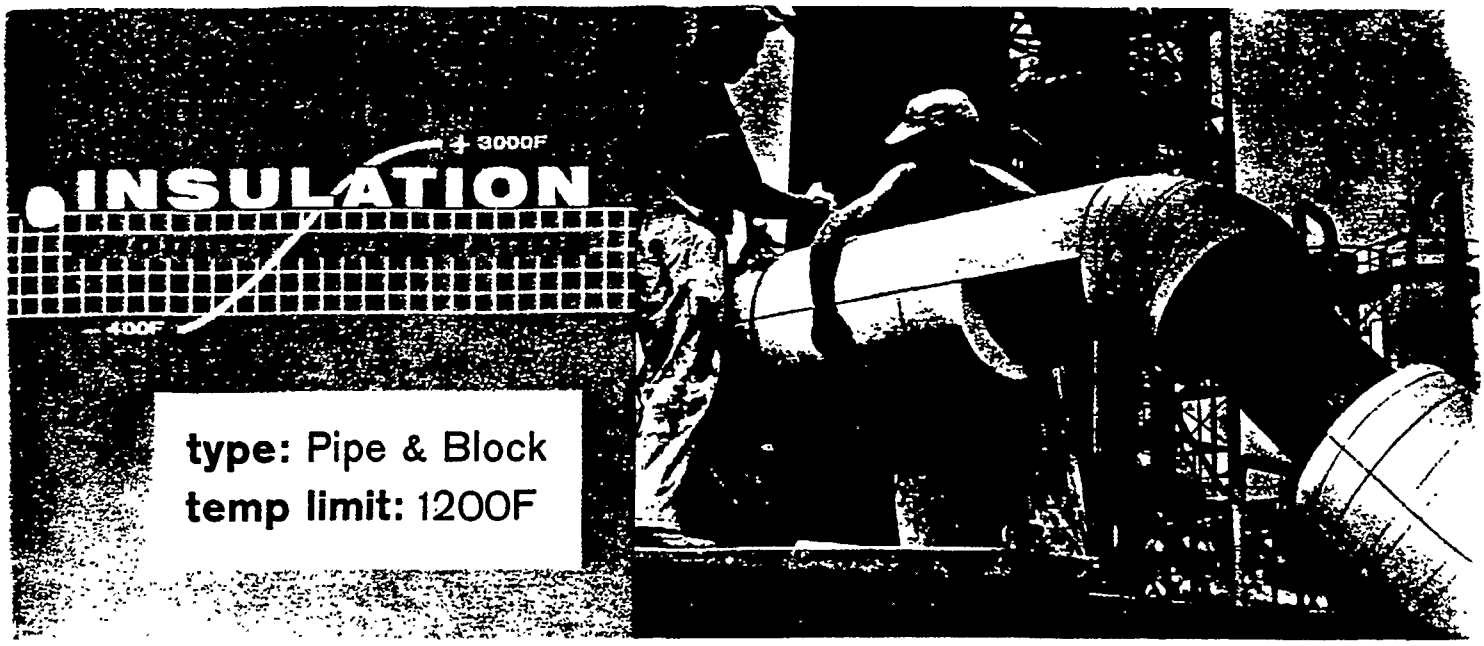
Yours very truly,

WILLARD A. SELLE, INC.

B.C. Crockett

Bob Crockett

BC/p
Enc.



J-M THERMOBESTOS® pipe and block insulation

■ **DESCRIPTION:** A molded, high temperature pipe and block insulation, J-M Thermobestos is composed of hydrous calcium silicate bonded with asbestos fibers. It is a completely inorganic insulating material which, because of its light weight, low thermal conductivity, great structural strength and insolubility in water, is ideal for high temperature piping and equipment.

■ **AVAILABLE FORMS:** Thermobestos is furnished in both sectional pipe insulation and block form. The pipe insulation comes in a complete selection of sizes up to 24″ x 4″ half sections. 25″ through 33″ pipe sizes are available in quad segments. Scored blocks 12″ x 36″ in thicknesses from 1½″ to 3½″ are available for application on curved surfaces representing a diameter range from 34″ through 180″. Scored blocks are furnished with three equally spaced scores. Beveled blocks are also available in widths of 6″, 12″, and 18″, by 36″ lengths, in a full range of thicknesses.

■ **USES:** Especially recommended for use in the power generation and process industries on indoor and outdoor piping and equipment operating at temperatures to 1200F, Thermobestos is light enough for easy handling and fast application. Repeated wettings have no permanent effect on it which makes it ideal for installations subjected to weather, or for insulating underground steam lines. Because it will not burn or carry flame, it may also be advantageously specified for use in the presence of inflammable gases and liquids.

■ **ADVANTAGES**

Exceptional Strength

Similar in chemistry and composition to a very fine concrete, Thermobestos will withstand unusual operating abuse without appreciable damage.

Extreme Lightness

Thermobestos is as light as many insulating materials possessing a fraction of its strength and durability.

Chemically Stable

100% inorganic, will neither burn nor rot.

Not Damaged by Water

Can be soaked in water without damage. After drying, conductivity will be as good as new.

Easy Application

Thermobestos is purposely made in large blocks and half-sections to facilitate handling and reduce number of joints.

Low Conductivity

Thermobestos offers the lowest *k* factor of all insulations in general use throughout the power generation and process industries.

WILLARD A. SELLE. INC.
215 POPLAR
EL PASO, TEXAS 79901
PHONE: AREA CODE 915 - 542-1877

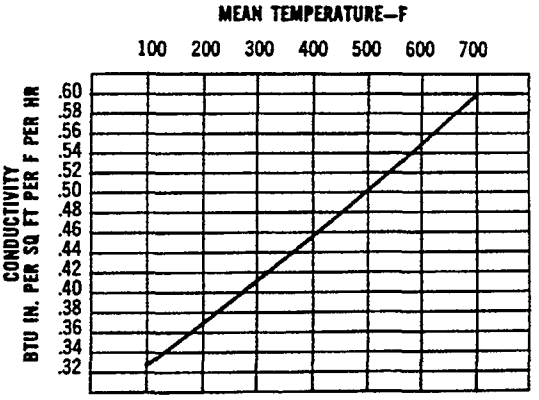
THERMOBESTOS
Specification Data

PHYSICAL PROPERTIES*

Density (dry)	**11 lbs per cu ft**
Transverse Strength (modulus of rupture)	**95 psi**
Compressive Strength (based on 2" thickness of block)	**165 psi to produce 5% compression**
Linear Shrinkage	**1.5% after 24-hr soaking period at 1200F**
Maximum Service Temperature	**1200F**

*The figures given in this table are average values obtained in accordance with accepted test methods.

THERMAL CONDUCTIVITY



Pipe Insulation

STANDARD SIZES

Length, inches	Simplified thicknesses, inches	For copper tubing
36	Nominal 1 (from ½" up to & including 6" pipe size only), 1½, 2, 2½, 3, 3½ & 4	To fit straight runs of copper tubing with nom. diameter ⅜ to 3"

Block Insulation

STANDARD SIZES

Length, inches	Width, inches	Thickness, inches
36	6 and 12	1, 1½, 2, 2½, 3, 3½ and 4

RECOMMENDED THICKNESSES

Complete pipe and block thickness recommendations are available for steam generation, process industry, commercial full year and commercial seasonal operation applications. See Thermobestos brochure IN-169A, or J-M Insulation Product Information catalog IN-244A.

COMPLIANCE WITH GOVERNMENT SPECS

Pipe Insulation:

MIL-I-2781 D
- Grade I, class b, to 500F
- Grade II, class d, to 750F
- Grade III, class e, type I and II to 1050F

FEDERAL HH-I-523 A Class 2, to 1200F

Block Insulation:

MIL-I-002819 D
- Class a, to 500F
- Class b, to 1000F

FEDERAL HH-I-523 A Class
- Class I, to 1200F

COMPLIANCE WITH ASTM STANDARDS

Pipe Insulation:

C345-54T, to 1200F

Block Insulation:

C344-54T, to 1200F

Johns-Manville

General Headquarters: 22 East 40th Street, New York, N. Y. 10016

Offices in all large cities

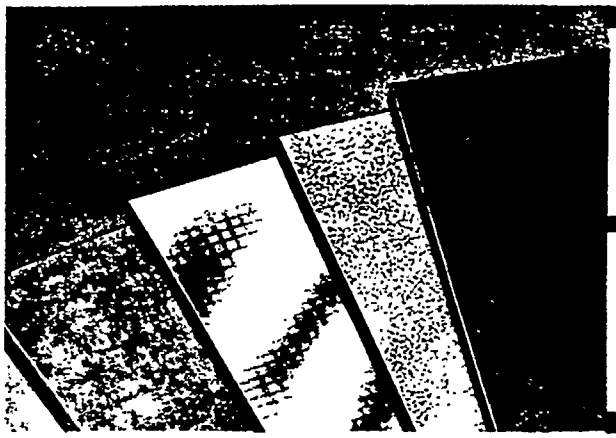
IN-268 A 3-68

LITHO IN U.S.A.

OWENS CORNING
FIBERGLAS

plumbing systems 1.5
mechanical equipment 3.2
air handling systems 4.4
power & process equipment 6.1
vessels & tanks 7.2
boilers & chimneys 8.5
December, 1967

Equipment Insulation



Industrial Insulation 700 Series

a highly versatile group of Fiberglas insulating boards designed to insulate ductwork and equipment operating at temperatures up to 450F.

uses

The 700 Series boards have been designed primarily to insulate heating and air conditioning ducts, ovens, tanks, boilers, hot water generators and other hot equipment.

type 700 — a low cost flexible material suitable for insulating factory-fabricated metal panels and for packing into irregular spaces

type 701 — A lightweight resilient insulation, in board form, used on vessels having irregular surfaces where the exterior finish is supported by welded studs, pins or other mechanical attachments

type 702 — More rigid than 701 and is recommended for use on equipment and ductwork subject to minmum maintenance and construction abuse

type 703 — A semi-rigid board recommended for use on equipment, vessels and air conditioning ductwork.

description

Fiberglas * 700 Series Industrial Insulations are made of inorganic glass fibers pre-formed into semi-rigid to rigid rectangular boards of varying densities. The series consists of Type 700, 701, 702, 703, 704 and 705. Each type has specific thermal and physical characteristics which makes it suitable for the uses described. Type 703, 704 and 705 are available with a variety of factory-applied vapor-barrier facings to prevent condensation on cold surfaces and to provide a neat finished appearance. Fire Retardant Facings are available.

type 704 — A rigid board recommended for use on heating and air conditioning ductwork in exposed areas where sharp, true corners and smooth surfaces are desired.

type 705 — A rigid board with very high strength characteristics for use on chillers, hot and cold equipment, heating and air conditioning ductwork where greater abuse resistance and good appearance is required.

benefits

lower operating costs — the exceptional thermal efficiency of Fiberglas 700 Series Insulations lowers operating costs.

end-use tailored — a variety of densities and facings offers a selection of products to meet specific performance and economic requirements.

continuous in-place performance — 700 Series resists damage, maintains structural integrity and efficiency. Thickness stays uniform.

neat, finished appearance — the boardlike characteristics of the heavier density 703, 704 and 705 products provide neat square corners. The factory-applied facings present an attractive finished appearance.

fire safe — Fiberglas is inherently fire safe. The unfaced boards and the Aluminum Foil Faced 703, 704 and 705 have UL Flame Spread ratings of less than 25.

*T. M. Reg. OCF Corp.

performance characteristics

sound absorption coefficients (2" thick #6 mounting)

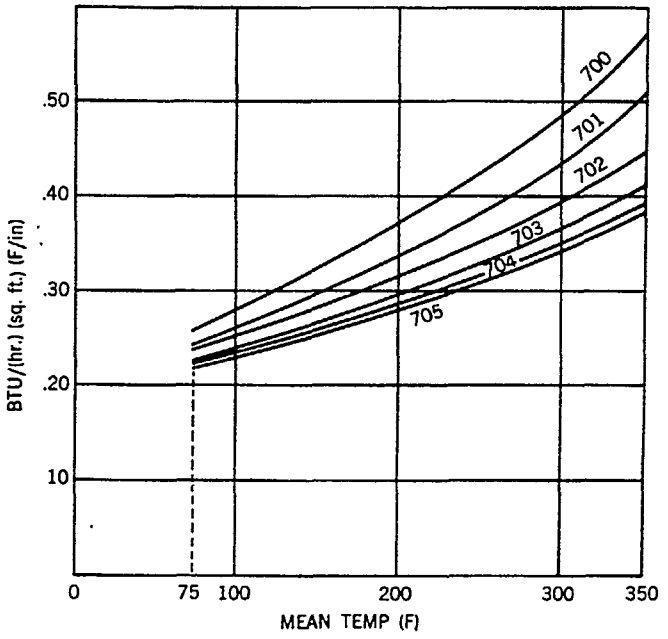
TYPE	125	250	500	1000	2000	4000	NRC
701	.34	.70	.96	.97	.86	.83	.87
702	.28	.77	.96	.98	.87	.87	.89
703	.32	.74	.97	.98	.87	.85	.89
704	.27	.79	.98	.99	.88	.86	.91
705	.48	.82	.97	.99	.90	.86	.92

size and density

Type	Density (pcf)	Thickness (In ½" Increments)	Compressive Strength (psf at 10% deformation)	Standard Size	Therm. Cond. @ 75F Mean Temp.
700	1.08	1"—4"	3†		0.260
701	1.58	1"—4"	4.5†		0.242
702	2.25	1"—3"	9.5†	24" x 48"*	0.235
703	3.00	1"—2"	100		0.230
704	4.20	1"—2"	200		0.230
705	6.00	1"—2"	350		0.220

*For special applications, boards up to 48" x 96" are available. †After compression packaged.

thermal conductivity



moisture absorption.....less than 0.2% by volume

bacteria and fungus resistance.....does not breed nor promote

odor.....odorless

humidity and temperature effect.....cycling conditions will not cause spalling or crumbling

corrosion.....does not accelerate corrosion of copper, steel or aluminum.

facings

Type 703, 704 and 705 are also available with the following factory applied vapor barrier facings:

FF — .0025 aluminum foil (UL Rated)
FRK — Foil-reinforced kraft
SF — Duplex Laminated kraft

fire hazard classification

	unfaced (700, 701, 702)	unfaced (703, 704, 705)	foil-faced (703, 704, 705)
flame spread	10-20	15	15-20
fuel contributed	10-15	15	20-35
smoke developed	0-20	0	0

(compared to untreated Red Oak as 100)

application recommendations

Type 700, 701, 702 — Lightweight unfaced flexible insulations in board form for use on vessels having irregular surfaces where the exterior is supported by welded studs or stiffeners and not by the insulation itself. The products are self-supporting but are generally secured with mechanical fasteners and protected by sheet metal.

Type 703, 704, 705 — These board insulations are normally impaled on welded pins on flat surfaces. They are cut in segments and banded in place on irregular surfaces. Unfaced boards are normally finished with reinforced insulating cement or weatherproof mastic. Faced boards, with joints taped to provide a continuous vapor barrier, may be left unfinished or may be canvas jacketed.

recommended thickness — heated equipment

(80F ambient air)

Surface	Type 701			Type 703			Type 704		
Temp.	RT	HL	ST	RT	HL	ST	RT	HL	ST
150	1½	11	87	1½	10	86	1½	10	86
250	2	24	95	2	21	93	2	20	92
350	3	29	98	2½	31	99	2½	30	98
450	3½	40	105	3	40	105	3	39	104

RT — recommended economic thickness, inches.
HL — heat loss (Btu/ft²-hr.).
ST — surface temperature (F).

thickness to prevent condensation

cold ducts and equipment

The following chart indicates the recommended thickness of Type 703, 704, 705 Faced Duct Insulation for installation on cold air ducts at various temperature differences (duct to air). Also shown are values for heat gain and approximate maximum relative humidity allowable.

Temperature Differences	Recommended Thickness (inches)	Heat Gain Btu/ft²-hr	Permissible Relative Humidity
20	¼	5.1	90%
25	¼	6.4	87%
30	1	6.1	89%
35	1	7.1	88%
40	1½	5.7	90%
45	1½	6.3	89%
50	2	5.4	90%

specification compliance

HH-I-542, Type I	700
HH-I-542, Type II.	701, 702, 703
HH-I-558a, Form A, Class 1.	702, 703**, 704, 705
HH-I-558a, Form A, Class 2.	703**, 704, 705
HH-I-558a, Form B, Type 1, Class 7.	700, 701, 702
HH-I-562, Type I, Class 2.	703**, 704, 705
HH-I-563, Type II, Class D. (500F***)	701, 702, 703
HH-I-564, Form I & II, Class A.	703**, 704, 705
Navy Bureau of Yards and Docks, 16Yf	703**, 704, 705
Corps of Engineers, C.E.—301.08, .11 thru .17	703**, 704, 705

**Type 703 G is specially produced for contracts where certification of compliance to the above Federal Specification is required. Available plain or faced for use on hot or cold equipment and for air conditioning ductwork.

***Waiver required on upper temperature limit.

limitations

Industrial insulation 700 series, plain, should not be used on surfaces operating at temperatures above 450F. Types 703, 704, 705 faced products should not be used on surfaces operating at temperatures greater than 250F.

OWENS/CORNING FIBERGLAS

OWENS-CORNING FIBERGLAS CORPORATION

Industrial and Commercial Construction Materials Division, 717 Fifth Avenue, New York, New York 10022
General Offices, Toledo, Ohio 43601

Pub. No. 1-IN-2873-I

Litho in U.S.A. 12/67

Johns-Manville

PRODUCT INFORMATION



type: Rigid Board
temp limit: 400F

J-M TANK TOP INSUL*

rigid board insulation

DESCRIPTION: J-M Tank Top Insul is a rigid insulating material of mineral composition processed to form a lightweight, moisture-resistant board suitable for use to 400F. A top coating provides a tough, hard surface which reduces bitumen penetration and facilitates weatherproofing.

AVAILABLE FORMS: Tank Top Insul is furnished in one size, 24" wide by 48" long. Thicknesses — 1" to 3" in ½" increments. Supplied in tube-type Kraft paper wrap package.

USES: Tank Top Insul is ideal for insulating all flat top surfaces of heated tanks and vessels such as in petroleum, chemical, and industrial installations.

ADVANTAGES:

Permanent

Chemically inert and basically inorganic. It is sturdy, rigid and dimensionally stable.

Easy Application

Lightweight, easy to handle, easy to cut and shape on the job.

Incombustible

Because of its mineral composition, J-M Tank Top Insul will not burn.

Resists Compression

Not damaged by heavy equipment and foot traffic during construction and maintenance. Tank Top Insul retains its compressive strength when heated.

Thermally Efficient

Tank Top Insul has a thermal conductivity of 0.38 Btu in. per sq ft hr per F at 100F mean.

Moisture Resistance

Tank Top Insul has no capillarity and low water absorption.

Low Bitumen Absorption

Tank Top Insul can be weatherproofed with either built-up roofing or sheet metal. It resists excessive bitumen absorption insuring good adhesion of weatherproofing.

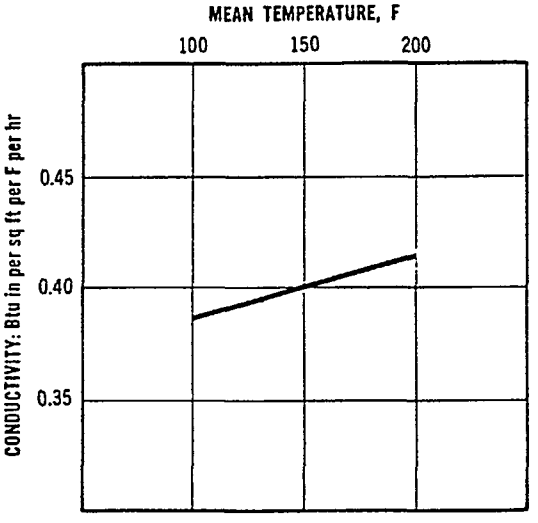
* *Johns-Manville Trade Mark*

TANK TOP INSUL
Specification Data

PHYSICAL PROPERTIES

Density, pcf	11
Compressive Strength	
Consolidation	5% at 26 psi load
	10% at 44 psi load
	50% at 175 psi load
Capillarity	0
Water Absorption submerged — 24 hrs — 5.0 percent by volume	
Temperature Limit	400F

THERMAL CONDUCTIVITY: BTU IN. PER SQ FT PER F PER HR.



Johns-Manville
General Headquarters: 22 East 40th Street, New York, N.Y. 10016
Offices in principal cities

IN-584A 5-66

Litho in U.S.A.

INVOICE

WILLARD A. SELLE, Inc.

215 NORTH POPLAR TELEPHONE 542-1877
EL PASO, TEXAS 79901

YOUR ORDER NO.	INVOICE NO.	DATE
	411	10-12-72

SOLD TO American Smelting & Refining Co.

ADDRESS P.O. Box 1111

CITY El Paso, Tx 79946

SHIPPED TO

TERMS

ADDRESS Final Billing our Job # 3374

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Attn: Mr Bill Nasmyth		
	Insulation work on original contract dated 7-June-72. For Blast Furnace Baghouse Stack & Breeching Insulation		
	Job Complete		$15,470.00
	Thank You		

No. 1156

RECEIVED BY:

MOORE DEALER - SOUTHWESTERN MILL DISTRIBUTORS, EL PASO, TEXAS

EL PASO SMELTING WORKS
ENGINEERING DEPT.

OCT 16 1972

EP 567-50
Nasmyth

INVOICE

SOUTHWESTERN INDUSTRIAL CONTRACTORS AND RIGGERS
EL PASO, TEXAS

P. O. BOX 1611
EL PASO, TEXAS 79948

EL PASO, TEXAS 26 September 1972 Date

ALBUQUERQUE, N. M. _____ Date

PHOENIX, ARIZ. _____ Date

American Smelting and Refining Company
P. O. Box 1111
El Paso, Texas

OUR INVOICE NO. 100513 C

YOUR ORDER NO.

BLAST FURNACE BAG HOUSE STACK AND RECIRCULATING DUCTWORK

100%	Complete	$20,733.00
	Less Previous Billing	6,219.90
		$14,513.10

EL PASO SMELTING WORKS
ENGINEERING DEPT.

OCT 2 1972

EP 567-50

We Appreciate Your Business

INVOICE

WILLARD A. SELLE, Inc.

215 NORTH POPLAR TELEPHONE 542-1877
EL PASO, TEXAS 79901

EP 38

EP 67-50

YOUR ORDER NO.	INVOICE NO.	DATE
12H 1283	10011	8-16-72

SOLD TO American Smelting + Refining Co.

ADDRESS P.O. Box 1111

CITY El Paso, Tx. 79946

SHIPPED TO

TERMS

ADDRESS Partial Billing our Job # 3374

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Attn Mr Bill Nasmyth		
	Insulation work on original Contract (12,195.00)		
	Blast Furnace Baghouse Stacks		
	Job 50% Complete $6097.50		
	Less 10% Retention 609.75		
	Amt of this estimate		$5487.75

VOID

Thank You

No. 0574

RECEIVED BY

MOORE DEALER - SOUTHWESTERN MILL DISTRIBUTORS, EL PASO, TEXAS

RECEI

PD 4R

PURCHASING DEPARTMENT

New York June 22, 1972

FILE

VIA AIRMAIL

MR. P. A. DeSANTIS
EL PASO PLANT

SUBJECT: ORDER 12H-1283, REQN. EP-38
BLAST FURNACE BAGHOUSE STACK
AND BREECHING INSULATION

Herewith all copies of contract properly signed and executed with Willard A. Selle, Inc. to cover the Blast Furnace Baghouse Stack and Breeching Insulation in accordance with specifications referred to therein.

Please have the contractor counter-initial the change made under Article 3, "Payment", returning the original and one copy, as marked, to this office for our record purposes.

You will note New York Purchasing Department Order 12H-1283 has been assigned to this contract for reference purposes. As soon as the work is completed to the satisfaction of all concerned, the invoices should be paid locally without reference to this office. However, a copy should be sent to New York for recording.

Also, you are to note the expiration date of the insurance. Should the work continue beyond the date shown, be sure to obtain an extension to protect the company until the work is completed.

F. O. WITTWER

FOW:eth
Attach.

INITIALED BY R.L.CRAGETT
AND RETURNED 7-7-72
WDR

cc: R. O. Covington - a/m

BF BH STACKS

El Paso, Texas
June 16, 1972

Mr. F. O. Wittwer
Purchasing Department
New York Office

REQUISITION RP-38

With reference to your telegram dated June 15, 1972, Willard A. Selle, Inc. is the only local industrial insulation contractor. We have found them to be honest and dependable; they have been doing all our insulating work for the past twenty-five years.

R. O. COVINGTON

ROC:nsg
cc: P. A. DeSantis
W. R. Nasmyth