

PLAINTIFF'S
EXHIBIT
Y-102

SPECIFICATIONS for INSTALLING

**EAGLE-PICHER
FIREPROOFING CEMENT**

on

LIQUEFIED PETROLEUM GAS TANKS



201402.

SPECIFICATIONS for INSTALLING EAGLE-PICHER FIREPROOFING CEMENT ON LIQUEFIED PETROLEUM GAS TANKS

1. SCOPE

These specifications cover a method of application of Eagle-Picher Fireproofing Cement and accessory materials to insure long lasting, efficient fireproofing treatment for LPG tanks.

2. MATERIALS

Eagle-Picher Fireproofing Cement
Eagle-Picher 106[®] Finishing Cement
Eagle-Picher Stamastic
Eagle-Picher Skamastic
3/8" rib metal lath, or dimpled lath, painted,
3.4 lb./sq. yd.
3/4" x 0.028" galvanized metal bands with clips
#9 ga. soft annealed galvanized iron wire
#16 ga. soft annealed galvanized iron wire
1" galvanized wire mesh netting

3. SURFACE PREPARATION

3.1 All metal surfaces to be fireproofed shall be cleaned of all scale, rust, loose paint, etc.
3.2 Cleaned surfaces shall be sprayed with a 1/16" coat of Eagle-Picher Skamastic.

4. TANK SIDE

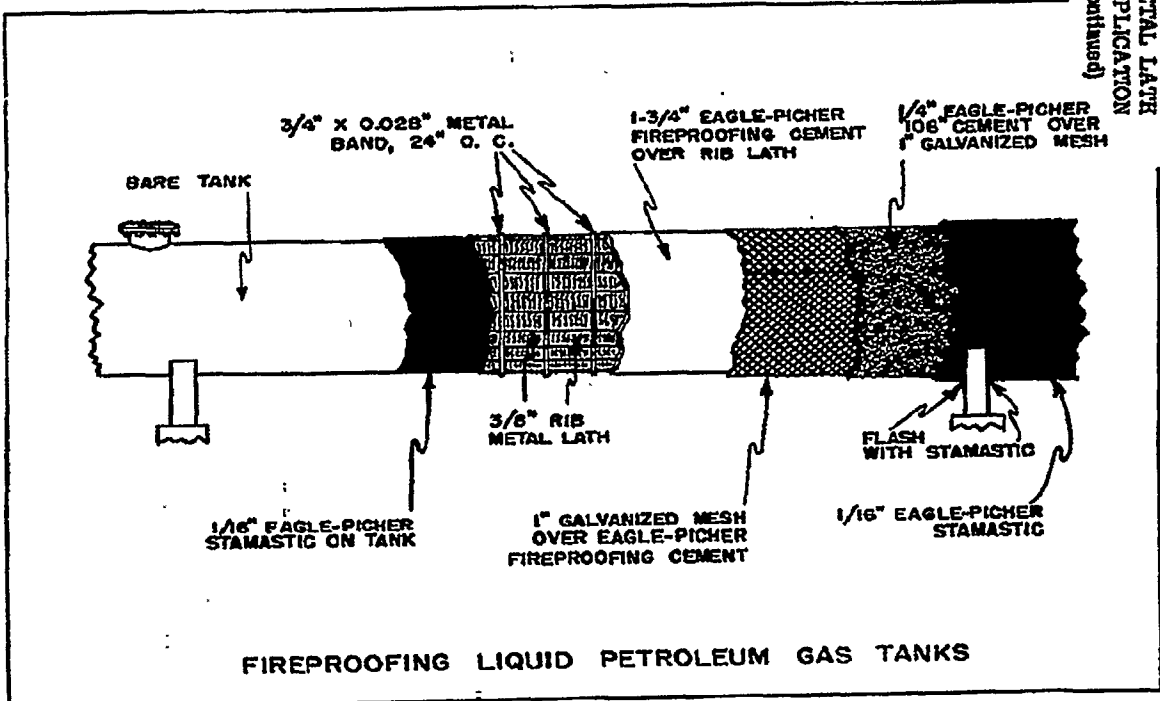
4. RIB METAL LATH APPLICATION

4.1.1 Apply rib metal lath to tank surface with ribs in against the tank surface and running parallel to the axis of the tank. See Dwg. No. 1.
4.1.2 Fold rib lath in place with 3/4" x 0.028" galvanized metal bands on approximately 24" centers. Bands shall be machine stretched and crimped. See Dwg. No. 1.
4.1.3 Where clearances prevent the use of banding tools, securely fasten the rib lath with #9 ga. soft annealed galvanized iron wire bands.

* NOTE: The permanence of the fireproofing treatment described in the following specifications is dependent critically upon its weatherproofing. Special care should be taken to see that it is truly weather-tight.

4. RIB METAL LATH APPLICATION (Continued)

4.1. TANK SIDE (Continued)



FIREPROOFING LIQUID PETROLEUM GAS TANKS

Drawing No. 1

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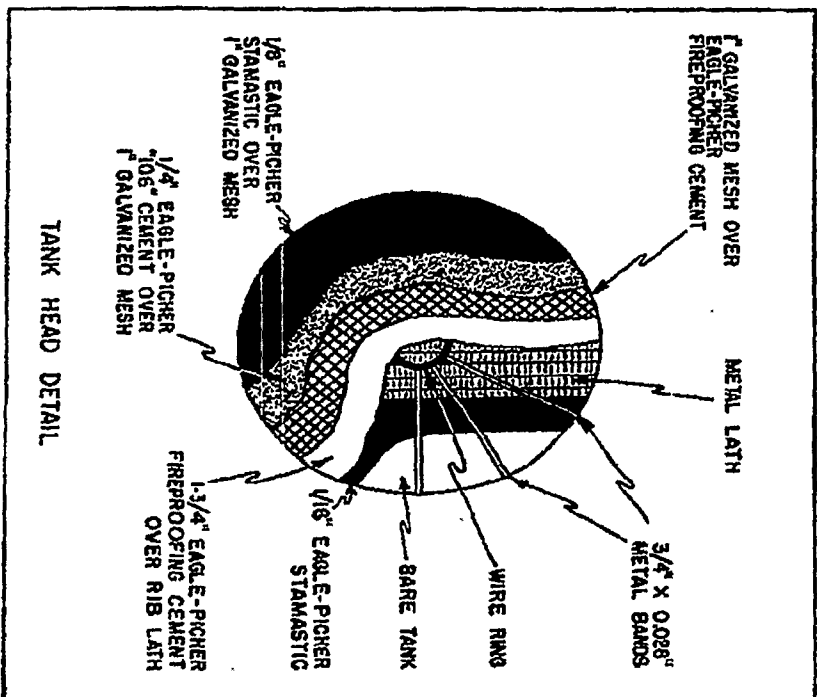
4. RIB METAL LATH APPLICATION (Continued)

4.2 TANK HEADS

4.2.1 Apply rib, or dimpled, metal lath to tank surfaces with ribs, or dimples, in.

4.2.2 Hold lath in place with $3/4"$ x $0.028"$ galvanized metal bands running radially from a floating #9 ga. soft annealed galvanized wire ring at center of head to end circumferential bands installed as in 4.1. See Dr. No. 2. Bands shall be machine stretched and crimped.

4.2.3 Where clearances prevent the use of banding tools, radial bands may be made from #9 ga. soft annealed, galvanized, iron wire.



Drawing No. 2

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5. EAGLE-PICHER FIREPROOFING CEMENT APPLICATION

5.1 MIXING INSTRUCTIONS

5.1.1 Mix the Eagle-Picher Fireproofing Cement with clean, fresh water in the ratio of 1 gal. to 100 lbs. dry cement. DO NOT MIX MORE THAN 2 HOURS' SUPPLY OF CEMENT AT ONE TIME.

5.1.2 Adding water in and effort to improve handleability of mixed cement that has started to set is not recommended.

5.2 NUMBER OF LAYERS

5.2.1 ALWAYS apply Eagle-Picher Fireproofing Cement in ONE LAYER.

5.3 METHOD OF APPLICATION

5.3.1 Apply Eagle-Picher Fireproofing Cement to a thickness of $1-3/4"$ over the rib metal lath installed as in 4.1 and 4.8.

5.3.2 Thoroughly key the Fireproofing Cement into the rib metal lath.

5.3.3 Allow the Fireproofing Cement to dry not less than 24 hours before any other materials are applied over it.

6. 1" GALVANIZED WIRE MESH NETTING APPLICATION

6.1 Apply the 1" galvanized wire mesh netting over all Eagle-Picher Fireproofing Cement surfaces. Stretch the netting to follow the contour of tank and lace all edges tightly together with 16 ga. galvanized, soft annealed, iron wire.

7.1 MIXING INSTRUCTIONS

7.1.1 Mix Eagle-Picher "108" Finishing Cement with clean, fresh water in the ratio of approximately 8-1/2 gal. to 100 lbs. of dry cement.

7.1.2 DO NOT MIX MORE THAN 1/2 HOUR'S SUPPLY OF CEMENT AT ONE TIME. If possible, apply as soon as mixed.

7. EAGLE-PICHER "108" FINISHING CEMENT APPLICATION

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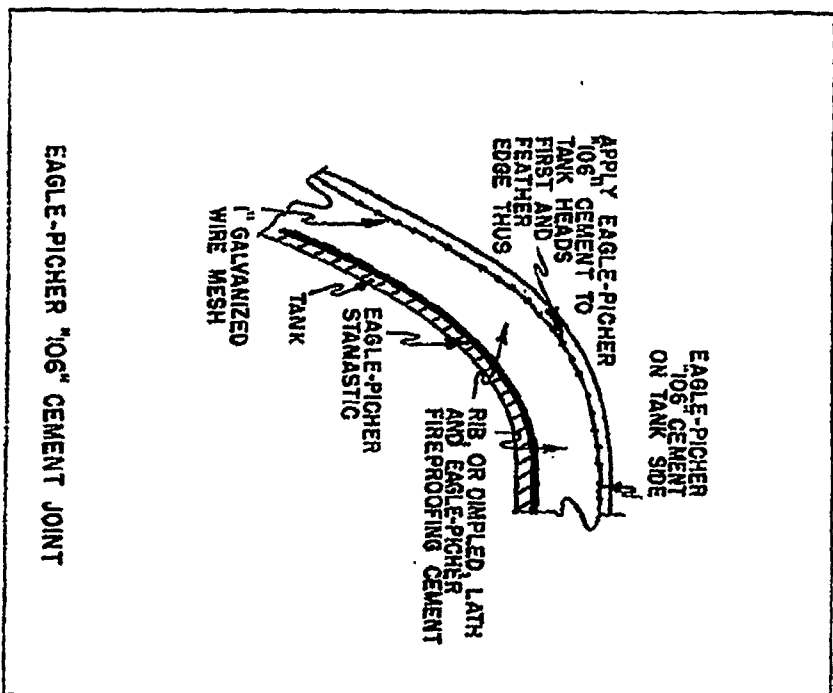
**1. EAGLE-PICHER
"106" FINISHING
CEMENT
APPLICATION
(Continued)**

7.2 TANK HEADS

7.2.1 Apply Eagle-Picher "106" Finishing Cement over the 1" mesh on the tank heads, beginning at center of head and working out to periphery, to a 1/4" thickness.

7.2.2 Feather the cement at the periphery so that a smooth joint can be made with the "106" Finishing Cement on the tank side. See Drg. No. 3.

7.2.3 Do not trowel excessively but only enough for a smooth surface.



EAGLE-PICHER "106" CEMENT JOINT

Dwg. No. 3
261467

**2. EAGLE-PICHER
"106" FINISHING
CEMENT
APPLICATION
(Continued)**

7.3 TANK SIDE

7.3.1 Apply Eagle-Picher "106" Finishing Cement over the 1" mesh on the tank side to a 1/4" thickness.

7.3.2 Because of the areas involved and the quick setting properties of the "106" Finishing Cement, it is recommended that the cement be installed in a series of succeeding and jointing bands around the tank, beginning at a tank head. The edge of each band should be feathered so that joints between bands can be as smooth as possible.

7.3.3 Do not trowel excessively but only enough for a smooth surface.

**B. WEATHER-
PROOFING**

8.1 FLASHING

8.1.1 Flash all joints, where manholes, piping connections, saddles, etc., come through the tank insulation, with Eagle-Picher Stalastic. Carry the Stalastic down at least 1" on all faces of the joint. Feather all edges of the Stalastic.

8.2 SURFACE

8.2.1 Spray or trowel 1/16" thick (when dry) coat of Eagle-Picher Stalastic over the 1" mesh and "106" Cement. Care must be taken that the Stalastic surface is free from any cracks or perforations.

8.2.2 A final coat of asphalt base aluminum paint may be applied over the Stalastic.

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THE EAGLE-PICHER SALES COMPANY

INDUSTRIAL INSULATION DEPARTMENT

AMERICAN BUILDING • CINCINNATI, OHIO

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CHICAGO 2, ILLINOIS
3 Third Indiana Street

CINCINNATI 1, OHIO
American Building

DETROIT, MICHIGAN
C and Pacific Streets

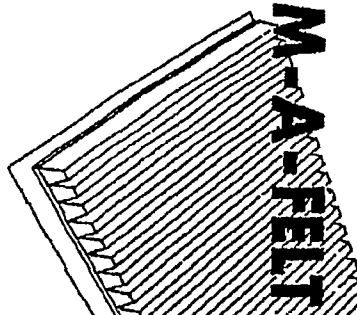
PITTSBURGH 22, PENNSYLVANIA
1261 Fifth Avenue

ST. LOUIS 11, MISSOURI
429 Commercial Avenue

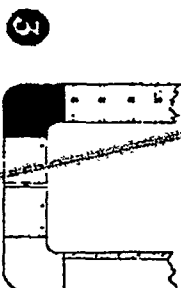
Form No. 1907-4A

2511 P

EAGLE-PICHER ALUM-A-FELT



This illustration shows "V" construction and attachment to an aluminum jacket.
The aluminum jacket of .016" thickness is applied at the fabricator's plant or warehouse. Eagle-Picher ALUM-A-FELT is shipped to the job site in flat cartons ready for application.



A 2" longitudinal and circumferential lap is provided by the plant when bonding the felt to the jacket. Method of attachment can be either aluminum straps and seals, 6" to 8" on centers, or aluminum sheet metal screws 6" on centers.

* Also available in other thicknesses

Your Eagle-Picher Distributor—Contractor

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