PLAINTIFF'S EXHIBIT tabbies WV-012671

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ASBESTOSPRAY CORPORATION

High Temperature Insulation

Issued: October 26th, 1967

TECHNICAL BULLETIN

Mechanical Reinforcement and Support of Asbestospray High Temperature Fiber Insulations.

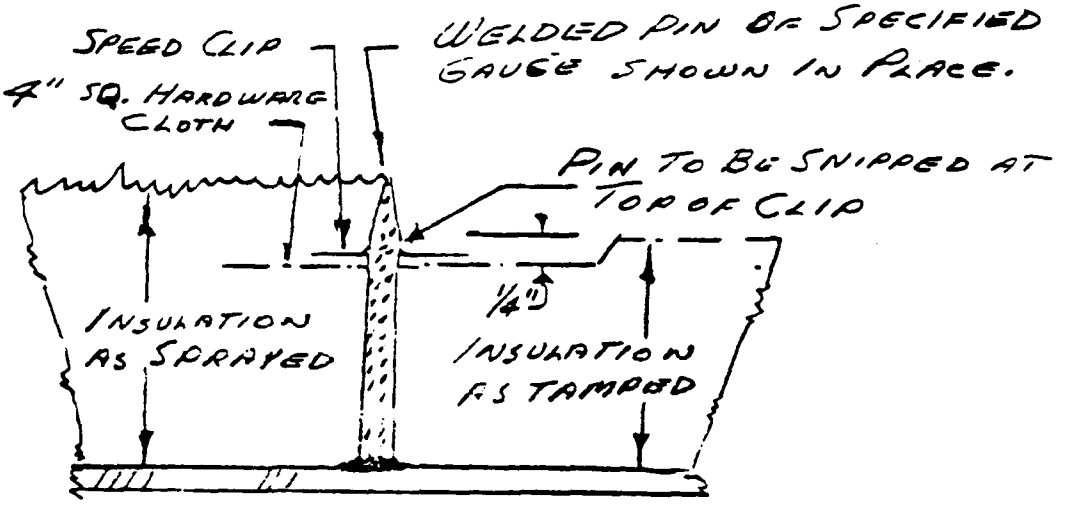
Where the surface of the unit to be insulated is such that mechonical support is necessory or where the insulation thickness is such that mechanical support is required, this mechanical reinforcement or support shall be as follows:

Surface to be Insulated	Retention		Applications
	Pins	Others	
Tanks & Vessels Vertical surface of tank more than four (4) ft. in diameter (Mastic Finish)	At least ½" longer than specified thickness. 18-24" on center.		4"x4" squares of ½" hardware cloth are to be impaled (over pin) into the sprayed fibre after the fibre has been applied and before pressing so that the hardware cloth is depressed ¼". Secure with speed clip-bend pins into fibre or nip it off. Cover hardware cloth before applying finish coat. See sketch #1 attached.
Vertical surface of tank more than four (4) ft. in dia. (Metal Finish)-Metal ~~hung on or attached to~~ mechanical support.	Of proper gauge & at least ½" longer than spec. thickness. 18" on center.	Metal Bands at least 3" wide, no more than 5 ft. apart.	For pins same as above except that pins required for support of lagging shall be as specified. See Sketch #1. Metal bands shall be used where lagging is self supporting and are not dependent for support wholly on the bands.
Tops of Tanks or vessels	When required 24" on center same as above		4" x 4" squares of ½" hardware cloth to be impaled onto pin over sprayed insulation as shown in Sketch #1.
Bottoms of flat or conical vessels.	Required on bottoms of all flat or conical units. Pins 12" on center.		4" x 4" squares of ½" hardware cloth impaled onto the pins and secured by means of speed clips. Hardware cloth must be impaled onto pins after fibre is applied.

Surface to be Insulated	Retention		Applications
	Pins	Others	
Boilers, Breeching, Duct Work, etc.			
A1. Top side of any horizontal surface sloped 0°-60° from horizontal.	None	None	None
A2. Between fire brick tile or block wall and steel casing.	None	None	None
B. Any vertical wall with flat lagging directly against insulation & where no severe oil-canning or vibration is anticipated.	Placed on 24" x 24" centers	None	Pins to be bent into sprayed fibres before insulation is pressed.
C1. Any vertical wall with with ½" (or larger) gap between insulation & lagging.	Placed on 24" x 24" centers	4 x 4 Mesh 16 Ga. Galv. wire hardware.	4" Sq. Hardware cloth to be impaled (over pin) into sprayed fibres at least ½" before insulation is pressed.
C2. Any overhanging horizontal surface with lagging directly against insulation		Speed clips	Snug speed clip to wire cloth. Bend pin tight against clip Respray over speed clip Press fibres
D1. Any overhanging surface with ½" (or larger) gap between insulation & lagging	Placed on 18" x 18" centers	No. 20 USS Ga. 1" x 1" Galv. Hex Poultry mesh.	Mesh to be stretched over pressed fibres, lap mesh & wire or twist together.
D2. Any vertical surfaces with severe oil canning or vibration.		Speed Clips	Snug speed clip to poultry mesh. Bend pin tight against clip
E1. Any overhanging surface with severe vibration or oil conning.	Placed on 18" x18" centers	1½"x3", 16 Ga., 3.6 lb. sq. yd. exp. metal lath, carbon steel	Lath to be stretched over pressed fibre, lap lath & wire together. Hog rings are not acceptable.
E2. Overhead roof surfaces in penthouse or header boxes, & Penthouse walls		Speed clips	Snug speed clip to lath. Bend pin tight against clip.

NOTE: All pins used for retention shall be No. 12 USSGA, mild steel (annealed), discharge type. All pins shall be furnished ½" longer than specified insulation thickness.

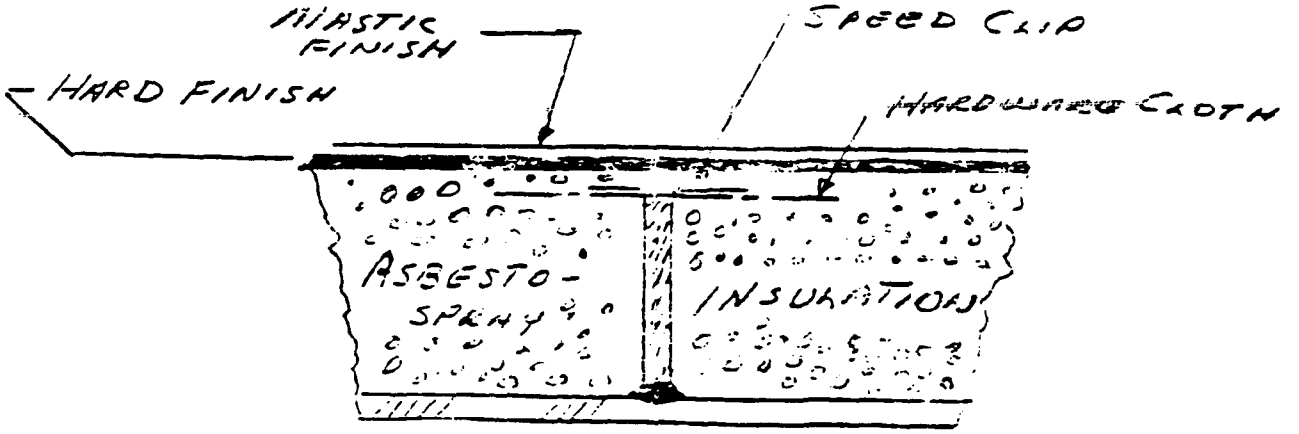
SKETCH NO 1
APPLICATION TECHNIQUE
MECHANICAL SUPPORT
USING PINS & HDW. CLOTH



SECTION LEFT INSULATION AS SPRAYED

CENTER SUPPORT DETAIL

RIGHT INSULATION AS TAMPED



SECTION FINISHED APPLICATION