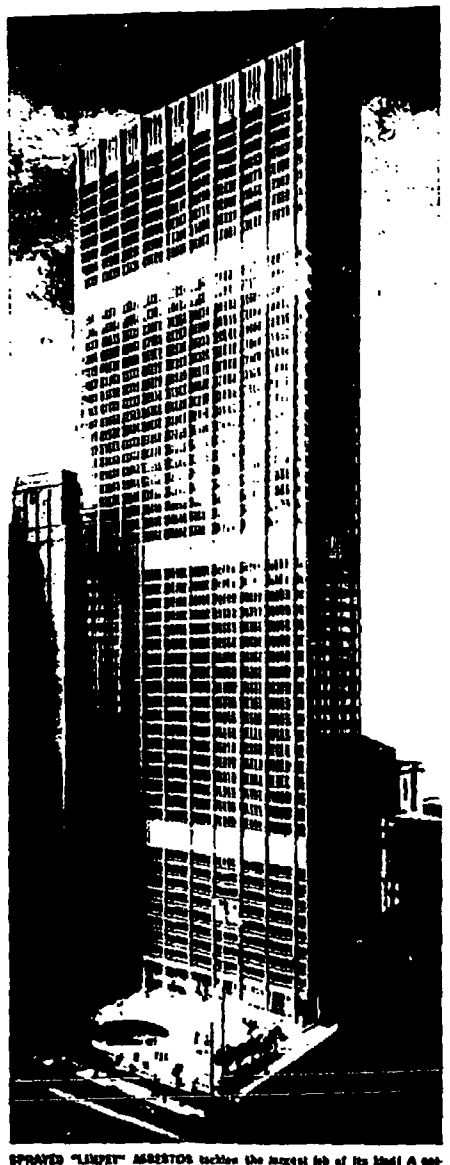


SPRAYED "LIMPET" ASBESTOS tackles the largest job of its kind! A one-half inch minimum thickness of SPRAYED "LIMPET" ASBESTOS . . . under Roseton cellular steel flooring . . . provides the 50-story Chase Manhattan Bank of New York City with four hours fire protection. This UL rating was achieved without interrupting other work on the construction schedule.

Architects: Skidmore, Owings & Merrill. General Contractor: Turner Construction Co. Structural Engineers: Worksopf & Pickworth. Authorized SPRAYED "LIMPET" ASBESTOS applicator: E. S. Conley & Co., Inc.

- LOW-COST
- LIGHTWEIGHT
- EASY TO APPLY

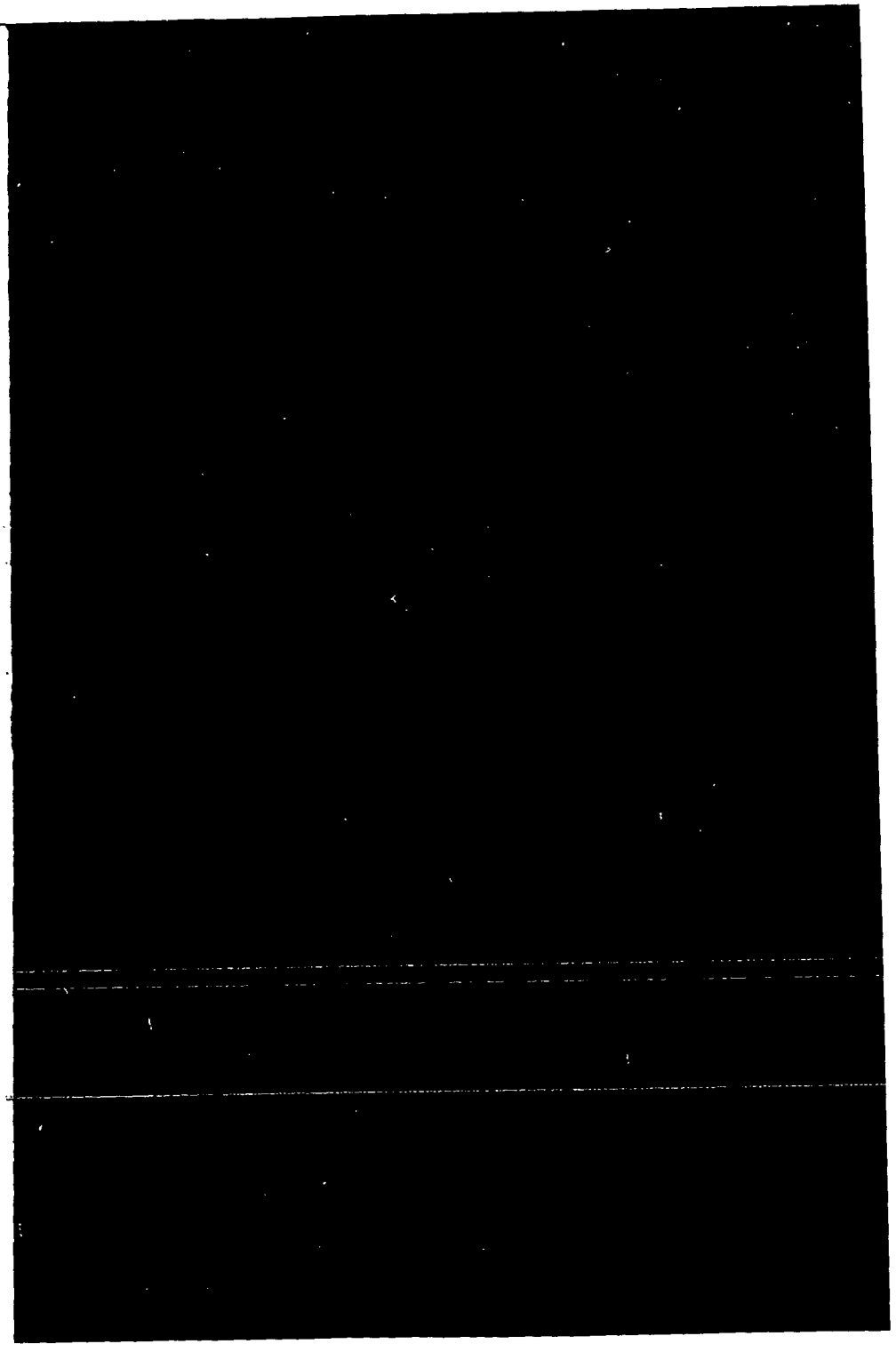
Provides up to five hours of fire retardance

SPRAYED "LIMPET" ASBESTOS

211113

10a
Ka

PERMANENT DATA FILE



PLAINTIFF'S
EXHIBIT
TN-5510

SPRAYED "LIMPET" ASBESTOS

Section of Penn Fruit Company's Philadelphia warehouse after a fire. Note the perfect condition of SPRAYED "LIMPET" ASBESTOS-protected primary girders. As you can see, the unprotected purlines have buckled.

ONE-MOVE AND ONE-STOP INSTALLATION—One man with a spray gun applies SPRAYED "LIMPET" ASBESTOS. • No lacing, clipping, fitting, or mixing required. • Does on in any kind of weather, as long as temperature at point of application is 40° F. or above • Sets fast and dries fast, with a minimum of clean-up. • No primary adhesive needed on direct application to metal lath and cellular steel floors. • No flammable, toxic solvents required—just clean water.

SPRAYED "LIMPET" ASBESTOS saves you space, weight, and costs. Frees you from the stress and strain caused by bulky, conventional fireproofing materials. It saves installation time and costs because the scaffolding moves ahead as the applicator completes his work, no delay for your construction schedules.

Since cracks, seams, and holes are eliminated, you can be much surer of actual fireproofing protection when you use SPRAYED "LIMPET" ASBESTOS. What's more, it has undergone extensive tests . . . under Underwriters' Laboratories supervision.

That's why more and more architects, builders, engineers, and contractors across the country are turning to the truly efficient fireproofing material: SPRAYED "LIMPET" ASBESTOS.

1—Standard cellular steel floor units

2—Steel columns

3—Steel beams

- No holes, seams, or cracks mar its efficiency—because it forms a continuous, felt-like covering.
- It expands with the heated surface . . . preventing cracks through which flames can penetrate.
- Reduces structural stress and strain: weight only one pound per square foot, yet bonding strength is one hundred pounds per square foot.
- It won't rot or corrode, resists effects of water, is vermin-proof and chemically inert.
- 100% pure asbestos combined with inorganic bonding material.
- Fireproofs steel, aluminum, and concrete.
- Ideal for warehouses, office buildings, apartment buildings, banks, schools, hospitals, institutions, and industrial plants.
- Complies with U.S. Federal Specification SS-A-111 Type 3, and meets all incombustible requirements, as well as those of the U.S. Coast Guard
- Approved by New York City Board of Standards and Appeals under Cal. No. 32-41 SM, and has approval of many other municipalities.

211119

RESULTS OF OFFICIAL FIRE TESTS SHOWING TYPES OF CONSTRUCTION USED

Assembly Description	Rating	"Limpet" Thickness	Authority
FLOOR 2½" Concrete 3" Cellular Steel	4 HR	½"	Underwriters' Laboratories REF. R-3705-3 1936
FLOOR 3½" Concrete	4 HR	1"	Fire Offices Committee England REF. FROS2.7 1938
FLOOR 2" Concrete Bar Joist Metal Lath	1½ HR	½"	National Bureau of Standards REF. No. 36A 1942
FLOOR 2½" Concrete Bar Joist Metal Lath	2 HR 2½ HR	½" 1"	National Bureau of Standards REF. etc. 37A & No. 39 1942
FLOOR 2½" Concrete 3" Cellular Steel Metal Lath Suspension	3 HR	1½"	National Bureau of Standards REF. No. 42 1942
FLOOR 2½" Concrete 3" Cellular Steel Metal Lath	4 HR	¾"	Fire Offices Committee England REF. FROS No. 940
FLOOR 2½" Concrete 3" Cellular Steel	3½ HR	½"	Fire Offices Committee England REF. FROS No. 998 1950
ROOFING & SIDING ASBESTOS CORRUGATED	1 HR 2 HR	1½" 2"	Fire Offices Committee REF. FROS No. 626 1955

Assembly Description	Rating	"Limpet" Thickness	Authority
STEEL WALLS CHIPS BULKHEADS	1 HR	1¼"	Fire Offices Committee REF. FROS No. 8 1948
COLUMN DIRECT TO STEEL	1 HR 2 HR 3 HR	⅛" ½" 1"	Fire Offices Committee and Underwriters' Laboratories REF. FROS No. 1412 & No. 3705-2-3
COLUMN DIRECT TO STEEL	3 HR 5 HR	2½" 3½"	Underwriters' Laboratories REF. R-3705-4-5 1958
COLUMN DIRECT TO STEEL	5 HR	2½"	Underwriters' Laboratories REF. R-1705-6 1958
COLUMN DIRECT WITH ROSUM FILLED	2 HR 4 HR	1" 2"	Fire Offices Committee REF. FROS No. 19 & No. 269 1939 & 1956
COLUMN APPLIED ON METAL LATH	2 HR	1"	Fire Offices Committee REF. FROS No. 447 1953
BEAM DIRECT TO STEEL	3 HR	2"	Underwriters' Laboratories REF. R-3705-1 1955
BEAM APPLIED TO LATH ON WIRE HANGERS	4 HR	1¼" SIDES 1½" BOTTOM	Underwriters' Laboratories REF. R-3705-1 1958

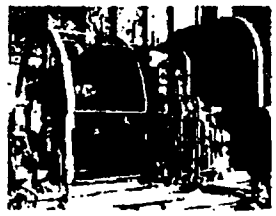
211120

SPRAYED "LIMPET" ASBESTOS

the versatile insulating material that faithfully follows the contours of any surface

Building Insulation—SPRAYED "LIMPET" ASBESTOS reduces fuel and air conditioning costs as much as 50%. It insulates concrete, steel, aluminum, and corrugated asbestos. It's ideal for hospitals, apartment houses, restaurants, office buildings, prefabricated metal buildings.

Acoustical Control—SPRAYED "LIMPET" ASBESTOS gives you double sound absorption. First, by absorption in millions of pores. Secondly, by yielding to the sound wave . . . thus reducing its intensity by diaphragmatic action. For bowling alleys, schools, churches, institutions, laboratories, restaurants, hotels, office buildings, and broadcasting stations.



High Temperature Industrial Thermal Insulation—Because of its low thermal conductivity, coupled with the ease with which it accommodates itself to irregular surfaces, SPRAYED "LIMPET" ASBESTOS has been proved to be one of the most efficient forms of insulation.

COEFFICIENT OF SOUND ABSORPTION—SOLID BACKING

Thickness	Painting	Noise Reduction Coeff.
¼"	2 Coats	.55
¼"	Unpainted	.70
¾"	2 Coats	.70
1"	Unpainted	.75
1¼"	Unpainted	.80
1½"	2 Coats	.85

COEFFICIENT OF THERMAL CONDUCTIVITY (K) (BTU/hr/ft²/°F/in)

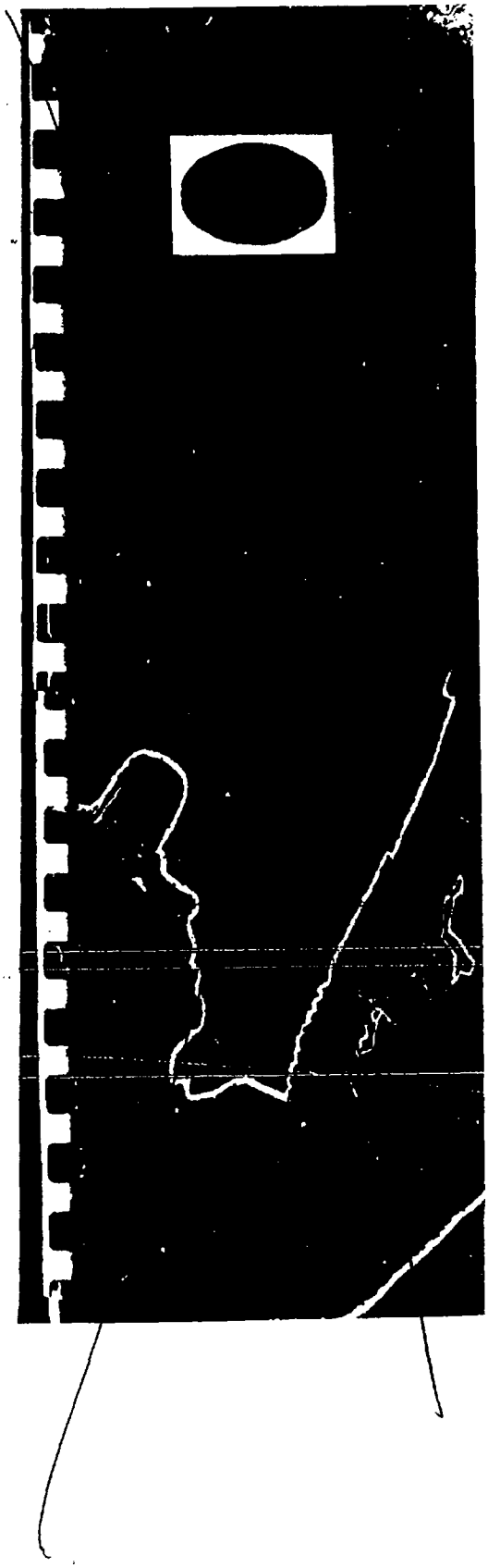
MEAN TEMPERATURE F.	
0°	0.30
50°	0.315
100°	0.34
200°	0.39
300°	0.46
400°	0.53

COEFFICIENT OF SOUND ABSORPTION—METAL LATH BACKING

Thickness	Painting	Noise Reduction Coeff.
¾"	Unpainted	.85
¾"	2 Coats	.80
¾"	Unpainted	.90
¾"	2 Coats	.90
¾"	10 Coats	.90

COEFFICIENT OF OVER-ALL HEAT TRANSMISSION (U) (BTU/hr/ft²/°F)

Materials and Typical Construction	U VALUE			
		Thickness of Sprayed "Limpet" Asbestos		
	Untreated	½" Limpet	1" Limpet	1½" Limpet
Corrugated Steel	1.50	.45	.26	.19
Corrugated Asbestos	1.38	.42	.25	.18
4" Concrete with Roofing	.72	.33	.22	.15
8" Brick Wall	.50	.28	.19	.15
2½" Gypsum Fiber Concrete on Plaster Bd. Built-up Roof	.38	.24	.17	.14
7" Concrete with Roofing	.82	.36	.23	.17



KEASBEY & MATTISON COMPANY • AMBLER • PENNA.

K·M BESTOS

DISTRICT OFFICES: New York, New York San Francisco, California Chicago, Illinois Ambler, Pennsylvania
Houston, Texas Cleveland, Ohio Atlanta, Georgia

211121