3036B 16 2 24M 8 O 2400

cc: PK- Mr. Zinkowski
PKL- Mr. Price

MEMORANDUM

In Reply to _____ *Date* 8/14/63 *From* BBH *To* MK- Mr. Powers

Subject MILL TRIALS ON SHINGLES FOR U/L CLASS A APPROVAL

In preparation for the Class A shingle trials at your plant, scheduled for August 21 and 22, we have shipped today by truck the following materials:

145 bags - Special intumescent base granules (7½tons)

13 bags - Finnish Asbestos (1500#)

2 - Test Decks
4 - Fire Brands
} Packaged as one unit

PLAINTIFF'S EXHIBIT
BIR-457

Mr. Sallie and myself will be on hand to follow the runs. We shall test shingles from the first run with Class A fire brand test, and if they appear satisfactory repeat the trial the next day with the Underwriters' laboratory inspector present.

The shingle we wish to make weighs 320 lbs. per square, double thickness, flat, 12" x 36", with #9 white overlay granules. The construction on a standard card basis is as follows:

Base	Wt./100 sq. ft.
55# x 48" Felt	11.5#
#14 Asphalt (175%)	20.0
#18 Coating (55.0%)	7.2
Filler, FKW (36.5%)	4.7
Asbestos, Finnish (8.5%)	1.1
#11 Intumescent Granules	21.1
Back Coating (55.0%)	1.9
Filler, FKW (36.5%)	1.3
Asbestos, Finnish (8.5%)	0.3
Backing, Soapstone	2.1
	71.2%
Overlay	
#18 Coating (55.0%)	13.0
Filler, FKW (36.5%)	8.7
Asbestos, Finnish (8.5%)	2.0
#9 Granules	40.0
	134.9#

The base weights are essentially your #21 Master-Bilt formulation except for the 55# felt, and the overlay weights are comparable to your King Tab formulation.

3-64B 15 42 24M R O 2400

MEMORANDUM

*In Reply to*_____ *Date*_____ *From*_____ *To*_____

*Subject*_____

The coating containing 8.5% Finnish asbestos is made by mixing one pound of the asbestos to each gallon of the regular 40% dust filled coating in the kettles, and agitating for several hours at a temperature between 460° and 480°F.

There should be sufficient intumescent base granules to run over 100 squares each trial, if necessary.

CEHinds/rp

BIRD 015554