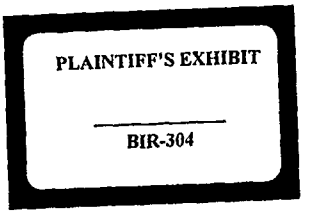


BIRD & SON



MEMORANDUM

PLAINTIFF'S EXHIBIT

BIR-304

To J. K. Colvin

From J. A. Hixon

Date September 22, 1980

Subject PERCENT FILLER - GLASS MAT SHINGLES

cc: F. W. Wood
F. Clark

For several months the average percent filler of glass mat based shingles generally has been under the 50% established minimum at FS. The standard percent filler is 55%. This was pointed out in a memo to FS dated 8/18/80.

It is absolutely necessary to have this filler content in order to pass the U/L Class A fire tests to insure that our material will pass.

Low percent filler was considered one of the contributing factors in the failure of the glass mat Architect 70 to pass the U/L Class A fire tests.

In the last year FS has had two U/L follow up fire test failures on your glass mat based shingles.

Be sure and discuss this matter with your Manufacturing Manager and personally supervise the improvement with this product.

JAH/ma

MEMORANDUM

cc: BB- Mr. Hixon
BBP- Mr. Wood
PS- Mr. Burris
PSL- Mr. Ladner

To MS- Mr. Colvin

From BBQ- Mr. Clark

Date 8/18/80

Subject PERCENT FILLER - GLASS MAT SHINGLES

The percent filler averages for June and July in the coating of glass mat shingles were below our established minimum of 50%. We know from experience that when the filler percentage falls below 50% a U/L Fire Test Failure can be expected. This is why the standard filler percentage was set at 55%.

The U/L has set a minimum of 32%, but this is due to a mix-up in samples tested when the 2# mat was accepted. The original minimum using the 3# mat was 50%.

Every effort should be made to increase this filler percentage.

The following are the averages reported:

Month	Base	Overlay
June	45.9%	45.0%
July	48.4%	48.0%

FHC/rp

FHC