cc: V. J. Labrecque

September 25, 1968

File

To: C. I. Hayden

From: J. A. Ulrich

SUBJECT: ASBESTOS - Millboard
CORBESTOS - Steel-Faced

re: Smith & Kanzler Special Asbestos Board (Alg-1) Plain and Combined as F. S.296 Corbestos Specials (C8g-5 and C8g-6)

In accordance with your request of June 24, 1968, we have evaluated the roll of special Smith & Kanzler asbestos white board received at that time, both plain and combined as F. S. #296 Steel-Faced Corbestos. Data sheets are attached.

The plain board (Lab Code Alg-1) was checked for conformance to F. S. #282. It did not conform, being either too dense for Grade A (Uncalendered) or too compressible for Grade B (calendered), depending on which way it is considered. Load-deflections were also run, and again the material was shown to be denser and less compressible than typical uncalendered #70 Board of similar gauge.

In making composites, a sample of the board was taken and found to have a weight of 15.8 g/sq.dcm. and gauge of .061". The gauge of normal uncalendered board of this weight would be .080"/.085", and would be used to make F. S. #296 Corbestos of .070" gauge (if there were such a product). Therefore, the experimental board was combined on the basis of weight to make .070" gauge F. S. #296 Special, Code C8g-5. Additional material was combined on the basis of gauge to make F. S. #296 Special, Code C8g-6, of approximate gauge .052", just as if the experimental board were normal weight material of its particular gauge.

The composites were tested for load-deflection, relaxation, and crush-extrusion properties, and compared to each other. As neither .070" nor .052" gauges are standard, there is no regular material against which we could compare these experimental versions. However, the C8g-5 represents a normal condition of density, while the C8g-6 represents overly dense material; and a comparison of one to the other shows the differences from a normal condition of combining by weight, if combining were done strictly by asbestos gauge without regard to weight. Note especially in load-deflections, that at lower loads the C8g-5 compresses less, while at higher loads the C8g-6 compresses less. The lower deflection at higher

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