

CONFIDENTIAL

PLAINTIFF'S
EXHIBIT
FOS-408

Steel Mill Products Division
Research and Development Department
May 1973

1) Profax Boards

Beginning Wednesday, May 16, 1973, a production run was scheduled on K-4 machine using EP-5290. The recipe is asbestos and paper free. The run was smooth and was continued until Monday, May 21, 1973, when the machine started easily. Monday the production was stopped. The boards were shipped to Copperweld and the results are favorable. Jack Thebo said that the material is dustier than Profax 31. We have to correct it.

Tuesday, May 22, 1973, the Armco-Middletown boards #341 and #342 were tried on Mark III K machine. Two pallets (one of each) were produced with 12.0% green scrap versus 10.0% for Profax 31.

The boards presented some surface cracks. For that reason, under laboratory conditions, we nailed a board directly on such a crack. The new material (EP-5290) is strong and elastic enough as not to be affected by the surface cracks (the sample is in our lab). We have not received, as yet, the results from Armco-Middletown. During these experimental runs we have found that the recipe is lacking in green strength. For that reason, we added to the regular recipe, a small amount of Bentonite (0.5%). The green scrap was lowered from 4-5% to 2-2.3% for a 24 hr. period.

Monday, June 4, 1973, Corrugated B machine is scheduled to start under regular production basis employing the tool #685 for Copperweld. During May we tried to reduce the filtered solid which passes through the screen. The usual screen which is used in production is 55 X 36 openings/sq. in. Under laboratory scale, we used two other screens: 80 X 60 and 100 X 92 openings/sq. in.

The forming time was:

1. 55 X 36	4.1 and 4.2 sec.
2. 80 X 60	4.1 and 4.2 sec.
3. 100 X 92	4.1 and 4.0 sec.

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