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MEMORANDUM

PBL
BB *Mr. Wood*
H *Mr. Reynolds*
T *Mr. Barker*

In Reply to _____ Date 3/14/60 From PBL
Subject KOPPERS' PANELS WITH V-3 SKINS - CORNELL UNIVERSITY

On March 10, the writer witnessed the testing of the Koppers' 4' x 8' panels with 0.100" V-3 skins. There were three 3" thick panels and three 2" thick panels with cores of "Dylite" expanded polystyrene. These panels were subjected to axial compression loads according to ASTM 72-55 procedure on a universal testing machine at Cornell University.

The 2" thick panels had a section of edge damage; however, this did not affect their performance. Also, one of these panels had a 1' long slash in one of the skins.

The report covering this work is expected from Cornell in about one week. Two of the 3" thick panels failed at 7,000% total load over the 4' dimension. The third failed at 9,000%. All failures were due to compression buckling of the skins. The 2" thick panels failed in the 4,000-5,000% range.

The results will now have to be compared with Koppers' data for other skin materials in order to determine how satisfactory the V-3 skins are structurally.

NDolson/rp