

ABSTRACT

PT Finture Bangun Abadi faces problems in its production process, where there are delays in production time. In August, there was an 8-day delay in the chair production process with a production target of 169 units. This happened because the distance between facilities at PT Finture (37 meters) which exceeds the maximum distance in Permenaker (25 meters). This research aims to design a facility layout that can prevent production delays at PT Finture.

This research method uses the BLOCPLAN algorithm with the help of Flexsim software in determining alternatives. The results of this study show that the proposed layout is able to reduce the distance between facilities from 205.5 meters to 132.75 meters, thus complying with SNI standards. The amount of production which initially can produce 169 units to 181 units within 6 days. The practical implication is that this design can be a reference for layout improvement to increase company productivity.

Keywords: Layout, BLOCPLAN Algorithm, Flexsim Software, Production Efficiency, SNI.