

ABSTRACT

Christian Atmoko, 21419473

SCP-25/4D13 *Type Pile Production Process with K.450 Concrete Quality at PT. DUASIA PADUSEJATI*

Scientific Writing. Mechanical Engineering. Industrial Technology Faculty. Gunadarma University. 2022

Keywords : Piles, Production Process, Casting, Concrete Quality K.450

(xiv + 60 + Appendices)

Along with the times and technology from the past until now, many companies and industries have developed technology in the manufacture of building piles with modern and up-to-date processes. Piles have been used as the foundation technology for buildings, bridges, houses, monuments, and other structures since antiquity. The technology of making piles continues to develop along with the times until now. One of them is PT. DUASIA PADUSEJATI which is one of the companies manufacturing piles. Piles are construction parts made of wood, concrete, and/or steel, which are used to transmit (transmit) surface loads to lower surface levels in the soil mass. The function and use of the pile foundation is to transfer or transfer loads from the construction above it (super structure) to the hard soil layer which is very deep. The purpose of this paper is to know and understand the production process of piles, tools and machines used, and what materials and materials are used. This writing is based on the study field and literature studies conducted by the author. The pile production process includes; bending, drawing, assembly, casting, lifting. The tools and machines used include; iron wire coil twisters, pliers, KOIKE Gas Cutting Machine Manual, drilling machines, steel plate cutting tools, electric FITECH DC350 IGBT, casting molds, palm fiber brooms and brooms, forklifts, mixer trucks, cement shovels, brushes, tarpaulins, truck cranes. Materials and materials used include; concrete iron screw 13 BjTD/BjTS 420B, wire steel BjTP 280, stainless steel strip plate 201, ship plate Fe-360.

Bibliography (1997-2022)