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## **Building and testing antennas wainscot from teak and para scrap woods: Built-up Column type and Spaced Column type**

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In the wood production manufacturing process, there are a lot of wood scraps must be left to waste. To product a pole from the wood scrap, which help to reduce cost in the production, is to use the wood scrap more efficiently. In this work, the wood poles were be designed, constructed and tested from teak and Para wood scrap by using finger joint with Polyvinyl Acetate. To constitute of these poles with being 4 inches thickness, 4 inches wide and 1 meter length were be tested in two types; built-up column and spaced column. To determination the ability of forced endurable was be acted on the vertical wainscot or compression test of wood parallel to grain by following the standard. The stipulation of the provisions of the Engineering Institute of Thailand announced that ability of forced endurable or compression test of wood parallel to grain must not less than 91 kN or 90 kg/cm<sup>2</sup>; respectively. In the results were found that ability of forced endurable of wainscots form teak and Para wood scrap has more standard value, and the maximum value of ability of forced endurable was 204 kN. The wainscot in spaced column type used less wood scraps and glue volume than the wainscot in built-up column type.

**Primary author:** Mr WASURATMANEE, Jamon (KMUTNB)

**Co-author:** Mr ACHARRY, Youdhagarn (KMUTNB)

**Presenter:** Mr WASURATMANEE, Jamon (KMUTNB)

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