COMPARISON OF BUTT JOINTS EFFECT IN PSSDB WALL PANEL WITH WINDOW OPENING

By

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DECLARATION OF THE CANDICATE

I **SHAH RAZAK B. MOHAMAD, 2002238725** confirm that the work is my own and that appropriate credit has been given where reference have been made to the work of others.

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Abstract

The rapid progress of science and technology has led to an-increasing trend of shift in paradigm from the traditional utilization of materials to newer ones, resulting in constant introduction of newer construction technique and material to the building industry. The report presents a behavior of a Profiled Steel Sheet Dry Board (PSSDB) with window opening system, which acts as a load-bearing wall.

This research involved the testing of three samples with PSSDB with overlapped condition at the side of the wall, at 300 mm and 700 mm from the edge of panel. The size of each sample was 1000 mm x 1320 mm. The samples were subjected to uniform distributed load and were seen as axial load if looked from the side. Meanwhile the opening of the window was 400 mm x 400 mm at the centre of this walling unit.

A procedure will develop for determining the deflection mode, the stress-strain relationship, the cracking pattern and the ultimate load capacity. Loading will apply axially on top on the sample until it failed, and the maximum load will determine.