

Jirawat ThangThong 2011: Development of Thai Content Index for Material Used in Housing Construction. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Mrs. Piyanut Wethyavivorn, D.Eng. 146 pages.

Thai Content is the number that represents production cost belong to Thailand in each products. The consideration of Thai Content is essential because Thai Content will specify level of the country's foreign dependency in terms of investment, production and export between trading partners, as the agreement of their country.

This research aims to study level of dependency on foreign resource and Technology. The research was conducted by investigating cost structure of raw material, resources and technology used in manufacturing of construction materials, including the data of level of dependency on foreign raw materials and resource. Therefore, the development of Thai Content Index for construction materials used in urban residential in Thailand was conducted by primary and secondary data. The scope of the study includes structural systems, floor systems, wall systems, and roof systems. The study found that The Thai Content of most construction materials mainly depend on raw material, except Foreign Content of Portland cement, silica cement and glass mainly depend on energy cost of production. The results reveal that Fast-growing tree has the highest Thai content, followed by materials that composed of cement and aggregate, metal materials, and hardwood that have respectively Thai Content.

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Thesis Advisor's signature