

U-SHAPED STEEL CHANNEL CONNECTION FOR DYNAMIC LOADING

TECHNOLOGY DESCRIPTION

This technology is analytical and constitutive model for proposed U-shaped steel channel connection and a new finite element model.

TECHNOLOGY FEATURES

This technology presents with multidirectional resistance precast connection for IBS structure subjected to in plane and out of plane loading. It diminishes the structural damage against the excitation and increases the capacity of structure subjected to impose loading. It increases the resistance against multidirectional static or dynamic load.

ADVANTAGES

- Diminish the structural damage against excitation
- Increase the capacity of structure subjected to impose loading
- Resist against multidirectional static or dynamic load
- Cost-effective
- Speed of construction
- Quality and productivity of construction

INDUSTRY OVERVIEW

Prospects: Construction companies, construction material suppliers and manufacturers

Global steel production in 2013 continued to increase by 3.5% to 1,607 million tonnes despite tepid demand growth in most parts of the world. The estimated portion of construction industry in Malaysia is 5% to 6% of the GDP at the end of 2012, general annual growth rate for construction is 3.7% and share to GDP is 2.9% in 2015. There is job opportunities for almost 1.03 million people that represent 8% of total workforce. The projection is based on the estimation of RM 180 billion of government funded projects, RM 140 billion of private funded and RM 20 billion Public Finance Initiatives (PFI) in this stipulated time frame. The construction industry makes up an important part of the Malaysian economy due to the interaction with other industry branches. The construction industry could be described as a substantial economic driver for Malaysia to achieve sustainable economy. According to the Master plan and 10th Malaysian plan, the government should apply sustainable development's goals in the construction industry.



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