

At last Eurocode 8 for Malaysia is out !!!!! Earthquake Resistance Test By

HC Precast System Sdn Bhd In Collaboration With UTM, Johor.

Utilised BSI code: 8 major earthquakes in the world

Industrialized Building System (IBS)

100 % Malaysia Technology With 6 IPs'



At last Eurocode 8 for Malaysia is out !!!!!





SEMINAR ON MALAYSIA NATIONAL ANNEX TO EUROCODE 8 - DESIGN OF STRUCTURES FOR EARTHQUAKE RESISTANCE

11 October 2018 (Thursday), Concorde Hotel, Shah Alam

Introduction

The Department of Standards Malaysia, a government agency under the Ministry of Energy, Science, Technology, Environment & Climate Change has established the Malaysia National Annex, which was developed by Working Group 1 on Determination of PGA under Local and Far Field Seismic Condition, under the supervision of Technical Committee on Earthquake both are committees under the purview of ISC D (Building, Construction and Civil Engineering). At the same time, a special committee consisting of Malaysian experts from various organisations has been formed as part of the team in the establishment of the Malaysian earthquake standards for Malaysia.

The time and effort taken in preparing the draft Malaysia National Annex to MS EN 1998-1 deserves much credit. The development of this National Annex was initiated in 2007 until its publication in 2017. In 2009, relevant international and foreign standards had been studied as part of the preparation of the draft. The TC on Earthquake, which was then managed and chaired by IEM, had also organised a series of events, including symposiums and workshops from 2011 to 2013 that caught the interest of both local and international experts. In 2016, due to the overwhelming comments received, the draft underwent major changes to incorporate the Malaysian interest, mainly the elements of public safety.

With the expanded committee that engaged both industries and academia, the Malaysia National Annex to MS EN 1998-1 has been successfully published. It contains information on Nationally Determined Parameters to be used for the design of buildings and civil engineering works to be constructed in Malaysia. These Nationally Determined Parameters are to be read in conjunction with MS EN 1998-1:2015, Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings. Reference can be made to other parts of BS EN 1998, where applicable.

Target Groups

- Building contractors
- Consulting engineer
- Government agency/Local authorities/Regulatory agency
- · Universities/Academia/Researcher



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"Group Discounts: 3 - 4 participants: 5% & 5 or more participants: 10%

Objectives

- To impart understanding on the earthquake design principles including the performance requirements and compliance criteria
- To promulgate Nationally Determined Parameters for Malaysia which include the application of informative annexes, country specific data (geographical, climatic, etc.)
- To guide user in the implementation of MS EN 1998-1 for building design

TENTATIVE PROGRAMME Arrival and Registration Paper 1: Introduction to National Annex ECS Ir. Kamaluddin Abdul Rashid Chairman, WG1 - Determination of PGA for Malaysia/ Member of TC on Earthquakes Deputy Director General (Building Sector). Public Works Department Malaysia (JKR) 10.30 am Paper 2: Earthquake in Malaysia Dr. Mohd. Rosaidi Che Ahas. Committee member of TC on Earthquakes Committee member of WG1 - Determination of PGA for Malaysia Former Deputy Director General (Operational). Malaysian Meteorological Department (MMD) Paper 3: Active Faults in Malaysia Professor Dr. Felix Tongkul Member of TC on Earthquakes Committee Member of WG1 - Determination of PGA for Malaysia Director of Natural Disasters Research Centre, Faculty of Science and Natural Resources, Universiti Malaysia Sabah (UMS) 2.00 pm Paper 4: Seismic Hazard Assessmen Professor Dr. Azlan Adnan Member of TC on Earthquakes Committee Member of WG1 - Determination of PGA for Malaysia/ Department of Structure & Materials, Faculty of Civil Engineering Universiti Teknologi Malaysia (UTM) Paper 5: Design of Buildings using EC8 Ir. Professor Dr. Jeffrey Chiang Choong Luin Committee member and former Chairman of TC on Earthquakes. Vice-President of The Institution of Engineers Malaysia (IEM) Chairman of Corporate Affairs, The Institution of Engineers Malays (IEM)/Professor of Civil Engineering, Faculty of Engineering & the E Environment, SEGi University Panel Discussion and Q&A Session Moderator: Ir. Kamaluddin Abdul Rashid Panelists: All Speakers

Refreshment and End of Seminar

Notes: All package including Certificate of attendance, funch and refreshment

Login for online registration: www.sirimsts.my/

1940 **EL-CENTRO** Mw 7.1 0.96g

Earthquake resistance test sample using BSI code

Certificate of Earthquake Resistance Test



e-SEER Engineering Seismology and Earthquake Engineering Research



Earthquake Resistance System
Tested on
18 August 2011
@ Laboratory of Shake Table Testing
Faculty of Civil Engineering
Universiti Teknologi Malaysia
81310 Skudai, Johor



Earthquake Resistance Test of Scaled-Down Double Storey Building of HC PRECAST SYSTEM SDN. BHD.

Under 8 different real earthquake time histories over the world as follow:

Earthquake	Year	Scaled PGA (g)	Magnitude	Result
El-Centro, California	1940	0.96	7.1	
Tabas, Iran	1978	0.114	7.4	
Irpinia, Italy	1980	0.606	6.5	
Kobe, Japan	1995	1.035	6.9	(
New Zealand	1987	0.165	5.6	(
Taiwan SMART1	1983	0.117	6.8	(
Duzce, Turkey	1999	0.075	7.1	(
Malaysia Artificial	25-27	0.606	-	

The HC PRECAST SYSTEM performed extremely well throughout all the earthquake tests without any visible cracks or damages $\Lambda \wedge$

Dr Azlan Adnan

Professor of Structural Earthquake Engineering Faculty of Civil Engineering, Universiti Teknologi Malaysia

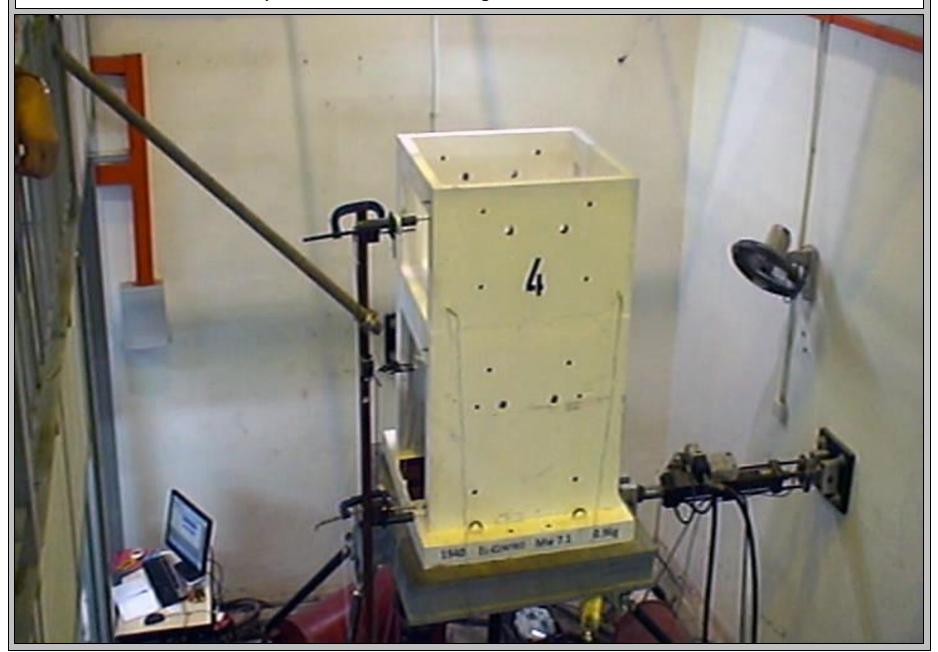
Briefing by the UTM's Professor



Briefing by the UTM's Professor



Earthquake Resistance Test In Progress - Shake Table at UTM Lab



Earthquake Resistance Test In Progress - Shake Table at UTM Lab 0.96g EL-CENTRO Mw 7.1

Earthquake Resistance Test In Progress - Monitoring by UTM's Professor



Earthquake Resistance Test In Progress - Monitoring by UTM's Professor





Earthquake Resistance Test In Progress - Witnessed by Related Government Agencies



Earthquake Resistance Test In Progress - Briefing to HCPS's Managing Director 1940 ELEUTRO MANT

Success in Earthquake Resistance Test up to 7.4 Magnitude using BSI Code



Sample Unit Return to HCPS' Office in Taman Seri Andalas Klang



