



**DEPARTMENT OF CIVIL ENGINEERING**  
**FACULTY OF ENGINEERING, KING MONGKUT 'S INSTITUTE OF TECHNOLOGY**  
**LADKRABANG BANGKOK THAILAND. TEL. 0 - 2329 - 8333**

**STATIC LOAD TEST**

**Sample From :** บริษัท เฮฟวีเร็คคิมพอร์ด จำกัด **Req. No.** 62-2204  
**Sample Description :** ชั้นเหล็กไมโครเร็ค Micro rack 1200L\*500D\*2000H (ทดสอบการรับน้ำหนักบรรทุกที่ 150 kg./layer)  
**Date of Testing :** 19-11-2019



**Test Results :**

Date / Time	Load (kg.)	Deflection at Mid-Span (mm.)				Remarks
		Layer 1	Layer 2	Layer 3	Layer 4	
19-Nov-2019	0	0	0	0	0	Initial condition
09:30	37.5	3.06	3.01	2.09	2.09	25% of test load
09:45	75	5.71	5.87	5.01	4.75	50% of test load
10:00	112.5	8.02	8.54	8.04	8.09	75% of test load
10:15	150	10.81	11.55	10.51	11.20	100% of test load
20-Nov-2019						
10:15	150	10.85	11.57	10.53	11.22	100% of test load
11:15	0	1.86	2.27	2.21	2.22	Unloading

Remarks : allowable deflection =  $L/240 = 5 \text{ mm.}$

Note :

- 1) Certification applies to test samples only.
- 2) No erasure or alterations.

Tested by :



Mr. Arnonpong Suwannapalai

Certified by :

Asst. Prof. Dr. Arthit Petchsasithon



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Load-Deflection Curve of Specimen

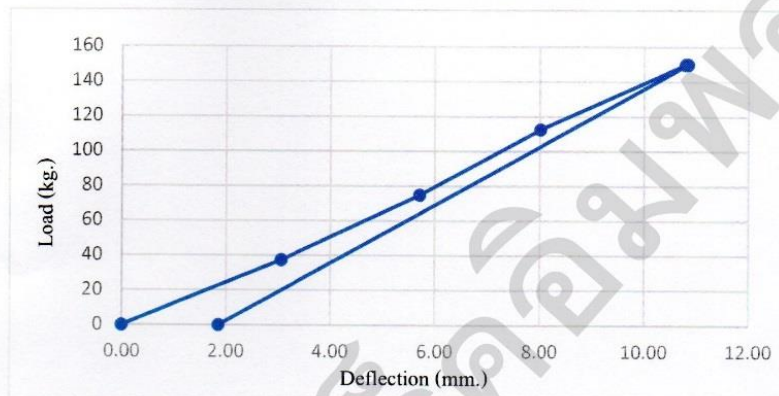


Chart 1. Relationship between load (kg.) and deflection (mm.), Layer 1

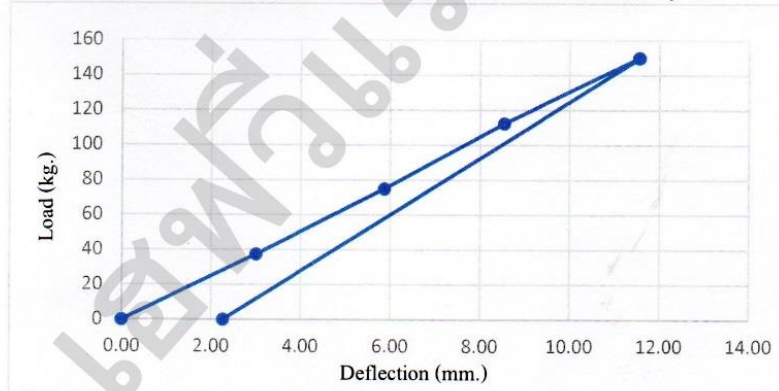


Chart 2. Relationship between load (kg.) and deflection (mm.), Layer 2

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Tested by :



Mr. Anuporn Suwannapalai

Certified by :

ASST. PROF. DR. Arthit Petchsasithon





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Sample From : บริษัท เฮฟวีแรรี่คิมพอร์ต จำกัด  
Sample Description : ชั้นเหล็กไมโครแร็ค Micro rack 1200L\*500D\*2000H (ทดสอบการรับน้ำหนักบรรทุกที่ 150 kg./layer)  
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Load-Deflection Curve of Specimen

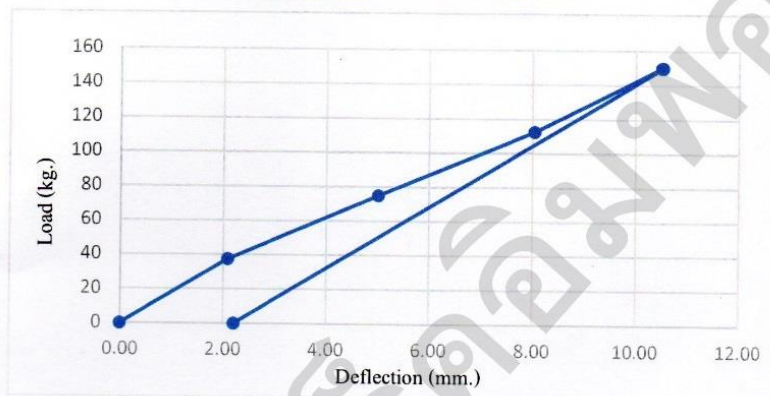


Chart 3. Relationship between load (kg.) and deflection (mm.) , Layer 3

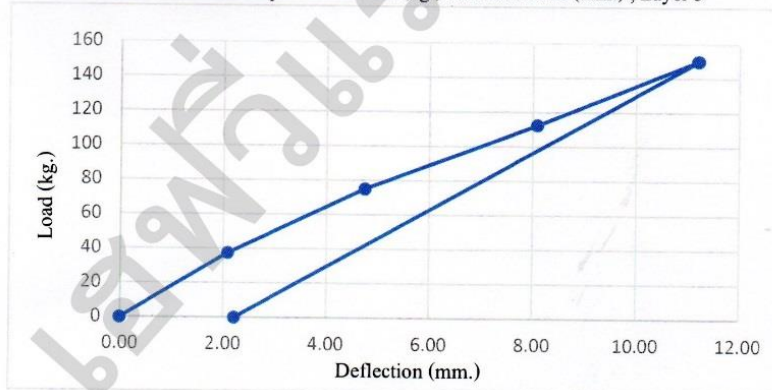


Chart 4. Relationship between load (kg.) and deflection (mm.) , Layer 4

Note :

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Tested by :



M. Anonwong Suwannapalai

Certified by :

Asst. Prof. Dr. Arthit Petchsasithon



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STATIC LOAD TEST



Figure 1 : Testing Configuration (Before Loading) on 19 November 2019



Figure 2 : Measurement of Deflection using Dial Gauge

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Tested by :



Mr. Arthit Petchsasithon

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Figure 3 : Testing Configuration (load = 75 kg./layer) on 19 November 2019



Figure 4 : Testing Configuration (load = 150 kg./layer) on 20 November 2019

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Tested by :



Asst. Prof. Dr. Suwannapalai

Certified by :



Asst. Prof. Dr. Arthit Petchsasithon