



# Singapore Test Services

A company of ST Kinetics

Singapore Test Services Pte Ltd

**Main Office:**

249 Jalan Boon Lay Singapore 619523

Tel: (65) 6660 7271 / (65) 6660 7322

Fax: (65) 6261 2617

Website: [www.test.com.sg](http://www.test.com.sg)

E-mail: [stsb@stengg.com](mailto:stsb@stengg.com)

(Regn. No.: 198004219D)

**Branch Office:**

Block 4010 Ang Mo Kio Avenue 10

TECHPLACE 1 #01-11 & 03-08 - 03-12

Singapore 569626

Tel: (65) 6854 3567 Fax: (65) 6854 3566

**Report No: 03084-0317-00857-MEME/1**

Date of Report: 17 March 2017

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Client's Reference:

PO# PT170044

**Report Title:**

Load Testing

**Client Details:**

Jayacoat Industries Sdn Bhd

Lot 61, 11 Miles Jalan Cheras, 43000 Kajang,  
Selangor, Malaysia

**Attn.:**

Ling Thing Kwong

**Sample Description:**

One(01) piece of ST0326 A65mm Screed Box c/w ST0281 Lid Section with 3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm) (Figure 1)

**Test Specification:**

Adopted to PSA MOB PF2 PS/SPU "Performance Specification for Platform Floors"(Test method T8.00)

**Test Method:**

The ST0281 Screed Box was mounted onto the test fixture. Using 25mm x 25mm square point loading at the centre of the box, subjected to a compression load of 1.5kN for 24 hours. Record the deflection (mm) at 23<sup>rd</sup> & 24<sup>th</sup> hours. Permanent deflection was record after removed the test load of 1.5kN, (Test set-up shown in figure 2 )

**Test Equipment :**

Universal Testing Machine, Instron / Model: 5596

**Date of Receipt:**

10 March 2017

**Date of Test:**

15 to 16 March 2017

**Location of Test:**

249 Jalan Boon Lay, Singapore 619523

**Results Reported By:**

Yong Soon Choy  
Reporting Officer

**Report Approved By:**

Tan Chee Kheng  
Supervisor  
Materials Engineering Division



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**Results of Testing:**

**Table 1: Load Test Results**

ST0326 A65mm Screed Box c/w ST0281 Lid Section with 3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm)						
Applied Load (kN)	Duration	Deflection as Load Applied (mm)	Stability between 23 <sup>rd</sup> and 24 <sup>th</sup> hours		Permanent Deflection After Removal of Load (mm)	
			Results	Requirement	Results	Requirement
1.5	At 23 <sup>rd</sup> hours	5.08	0.00	$\leq 0.02$	-	-
	At 24 <sup>th</sup> hours	5.08			-	-
2 hours after the Applied load (1.5kN) was removed			-	-	0.22	$\leq 0.50$



**Figure 1: Received Sample**



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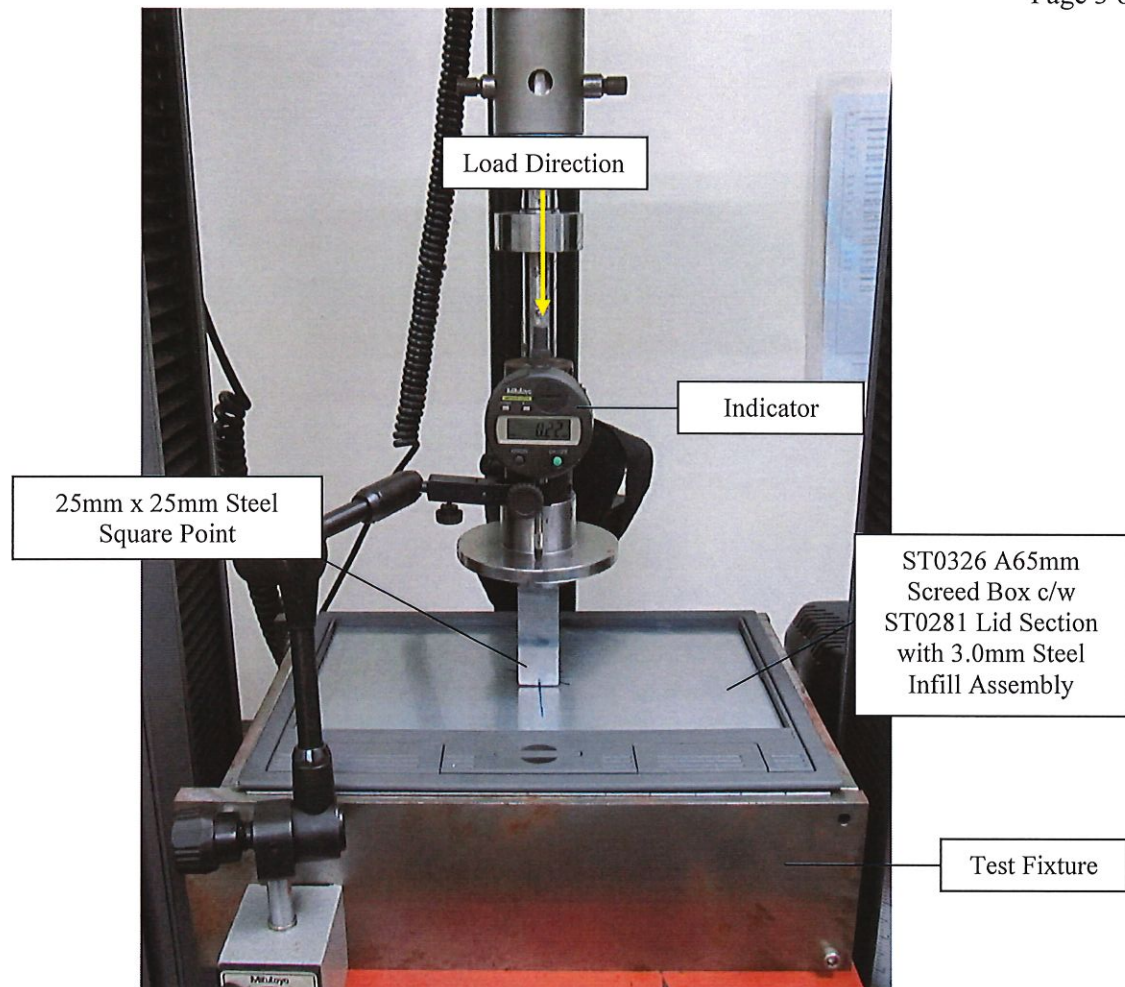


Figure 2: Test Set-up





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**Report No: 03084-0317-00857-MEME/2**

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**Client's Reference:**

PO# PT170044

**Report Title:**

**Load Testing**

**Client Details:**

**Jayacoat Industries Sdn Bhd**

Lot 61, 11 Miles Jalan Cheras, 43000 Kajang,  
Selangor, Malaysia

**Attn.:**

Ling Thing Kwong

**Sample Description:**

One(01) piece of ST0326 A65mm Screed Box c/w ST0281 Lid Section with 3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm) (Figure 1)

**Test Specification:**

Adopted to PSA MOB PF2 PS/SPU "Performance Specification for Platform Floors"(Test method T8.00)

**Test Method:**

The ST0281 Screed Box was mounted onto the test fixture. Using 25mm x 25mm square point loading at the centre of the box, subjected to a compression load of 1.5kN, 3.0kN, 4.5kN & 9.0kN. Record the deflection (mm) at load applied, after hold load of 5 minutes and permanent deflection were recorded after removed each test loads. (Test set-up shown in figure 2 )

**Test Equipment :**

Universal Testing Machine, MTS/SINTECH 65/G

**Date of Receipt:**

10 March 2017

**Date of Test:**

16 March 2017

**Location of Test:**

249 Jalan Boon Lay, Singapore 619523

**Results Reported By:**

Yong Soon Choy  
Reporting Officer

**Report Approved By:**

Tan Chee Kheng  
Supervisor  
Materials Engineering Division



**Report No: 03084-0317-00857-MEME/2**

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**Results of Testing:**

**Table 1: Load Test Results**

ST0326 A65mm Screed Box c/w ST0281 Lid Section with 3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm)			
Applied Load (kN)	Deflection as Load Applied (mm)	Deflection After 5 minutes (mm)	Permanent Deflection After Removal of Load (mm)
1.5	4.54	4.54	0.11
3.0	7.07	7.12	0.38
4.5	8.58	8.78	1.22
9.0	18.22	19.98	7.22



**Figure 1: Received Sample**

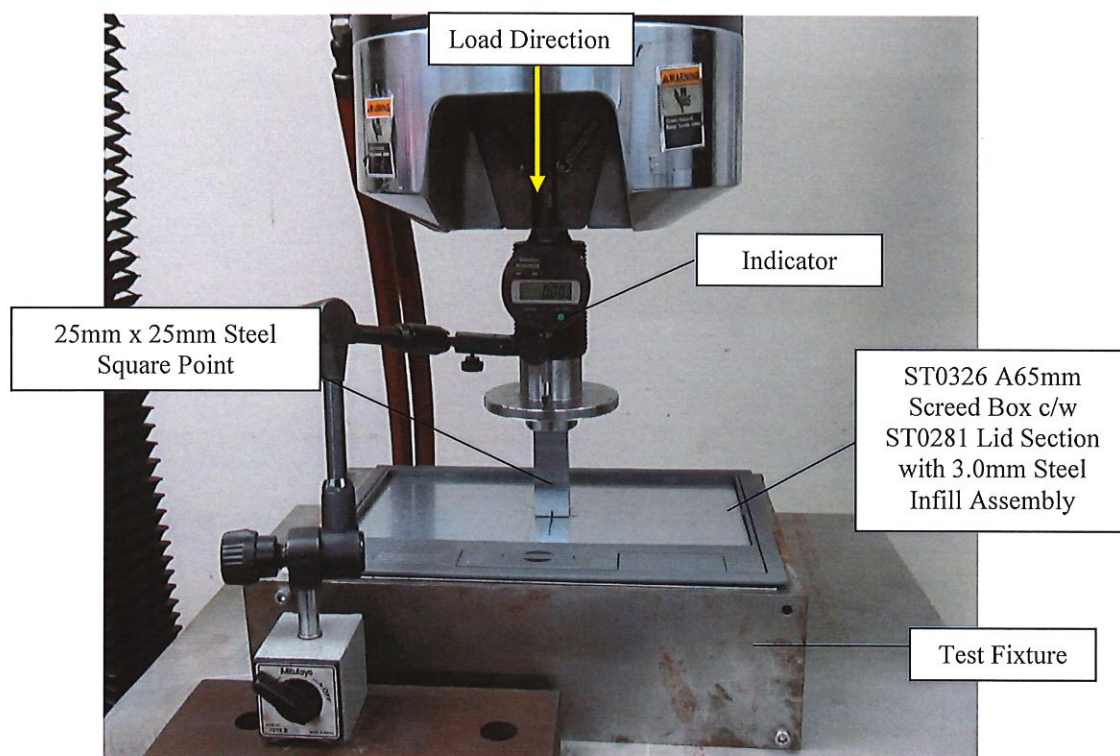


Figure 2: Test Set-up





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**Report No: 03084-0317-00857-MEME/3**

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**Client's Reference:** PO# PT170044

**Report Title:** Load Testing

**Client Details:** Jayacoat Industries Sdn Bhd  
Lot 61, 11 Miles Jalan Cheras, 43000 Kajang,  
Selangor, Malaysia

**Attn:** Ling Thing Kwong

**Sample Description:** One(01) piece of ST0326 A65mm Screed Box c/w ST0281 Lid Section with  
3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm) (Figure 1)

**Test Method:** The Screed Box Assembly was mounted onto the test fixture. Using 25mm x  
25mm square point loading in the centre of the box, subjected to a compression  
load until failure occurred. (Shown in figure 2 )

**Test Equipment :** Universal Testing Machine, MTS/SINTECH 65/G  
Test Speed: 6mm per minute

**Date of Receipt:** 10 March 2017

**Date of Test:** 16 March 2017

**Location of Test:** 249 Jalan Boon Lay, Singapore 619523

**Results Reported By:**

Yong Soon Choy  
Reporting Officer

**Report Approved By:**

Tan Chee Kheng  
Supervisor  
Materials Engineering Division

**Report No: 03084-0317-00857-MEME/3**

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**Results of Testing:**

**Table 1: Load Test Results**

Sample Reference	ST0326 A65mm Screed Box c/w ST0281 Lid Section with 3.0mm Steel Infill Assembly (Size: L303mm x W221mm x D65mm)
Initial Deformation Load	8.20 kN
Extension at Initial Deformation Load	15.55 mm
Maximum Applied Load	17.92 kN
Extension at Maximum Load	34.59mm
Mode of Failure	Figure 3 & 4



**Figure 1: Received Sample**





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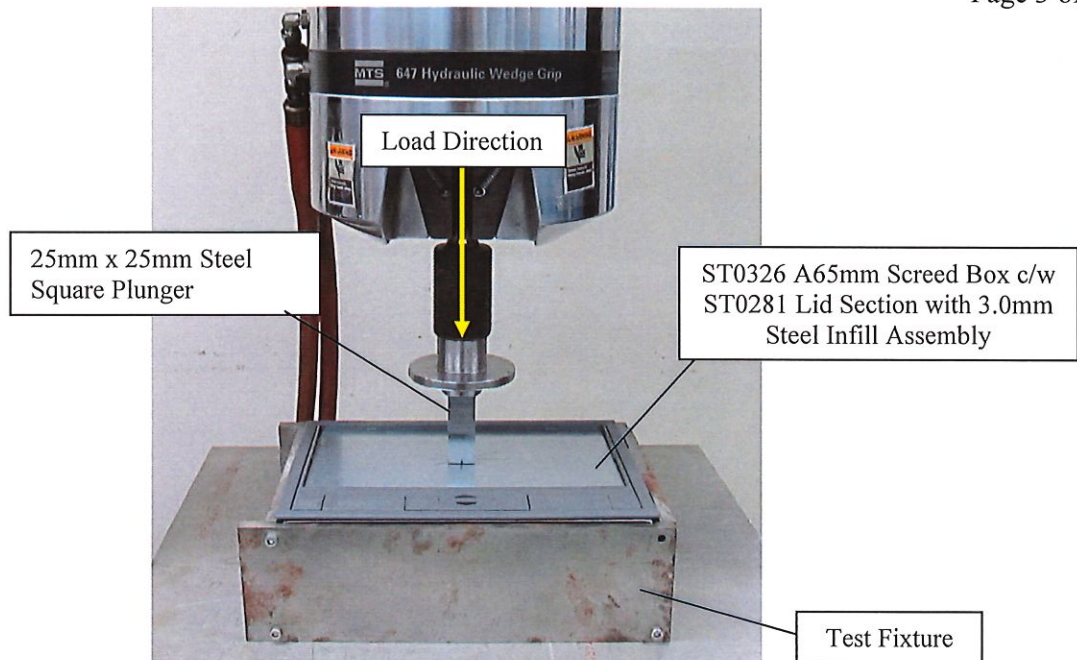


Figure 2: Test Set-up

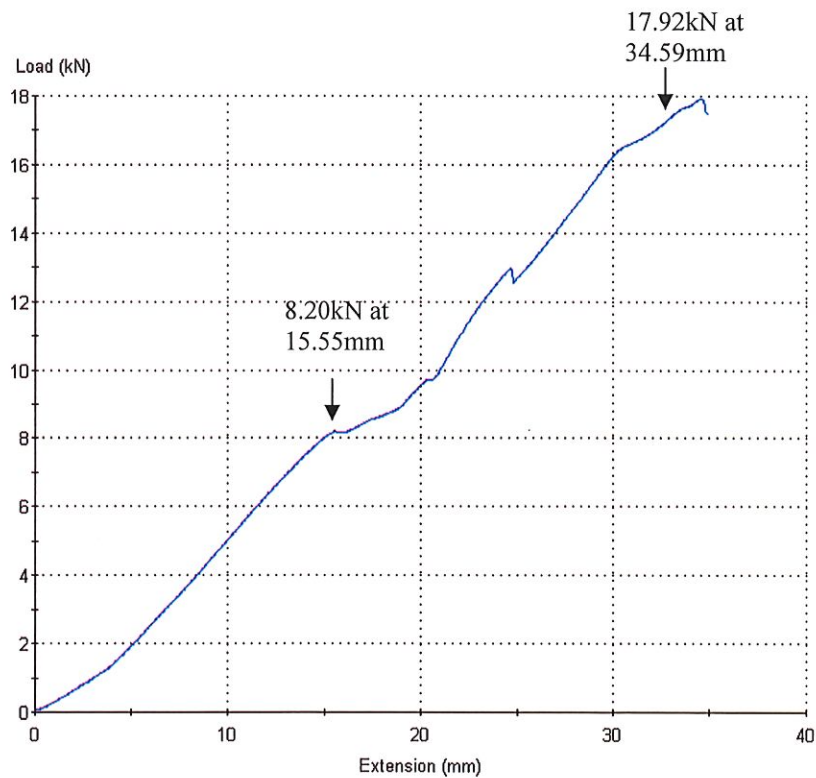


Figure 3: Load vs. Extension Curve



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Figure 4: After Test