

**Test Report No. 7191021572-MEC11-OHH**  
dated 30 NOV 2011



PSB Singapore

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**SUBJECT:**

Load test of of Polymer Grab Bar & Rail.

**TESTED FOR:**

Spazio Concepts Pte Ltd  
32 Sungei Kadut Way  
#03-03 Teambuild Industrial Building  
Singapore 728787

Attn: Mr Brandon Heng

**SAMPLE DESCRIPTION:**

One piece of of Polymer Grab Bar & Rail of Ø38mm x 600mm said to be with an inner core of 2.0mm thick Aluminium Extruded and 3.0mm thick ABS outer cover with surface over dots, was submitted by Spazio Concepts Pte Ltd on 25/11/2011 for load test. Photo. 1 shows the sample as submitted.



Photo. 1 : Polymer Grab Bar & Rail

**TEST PROCEDURE:**

The Polymer Grab Bar & Rail was fitted onto a fixture and both end which mounted onto the test bed of the universal testing machine.

A compressive load, at rate of 5mm/min, was then applied to mid-point of the bar via a Ø50mm indenter until failure was observed.



TÜV SÜD PSB

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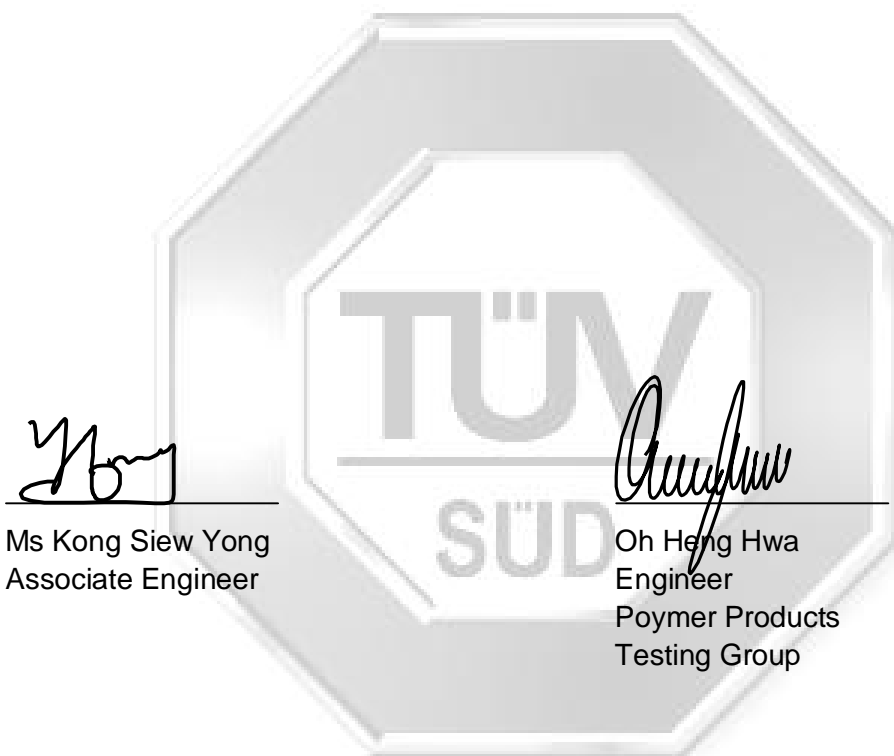
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**TEST RESULTS:**

Sample reference	Ø38mm x 600mm Polymer Grab Bar & Rail
Ultimate compressive load (kN)	4.61
Mode of failure	The grab bar deformed.



  
Ms Kong Siew Yong  
Associate Engineer

  
Oh Heng Hwa  
Engineer  
Polymer Products  
Testing Group

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July 2011

