SIRIM QAS International Sdn.Bhd. (Company No : 410334-X)
No.1, Persiaran Dato' Menteri, P.O.Box 7035, Section 2,
40911 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel. no: 03- 55446379/55446380
Fax. no: 03-55446381

TEST REPORT

REPORT NO.: J20111270840	PAGE : 1 OF 7

Applicant	:	**RAYSPEED HOLDING SDN. BHD. (679166-A)** No. 661 2nd Floor, Oakland Commercial Centre, Jalan Haruan 4/10, 70300 Seremban, Negeri Sembilan Darul Khusus.
Manufacturer	:	**SEKISUI JUSHI CORPORATION** Dojima Kanden Building, 2-4-4, Nishitenma, Kita-ku, Osaka 530-8565, Japan
Product	:	**POLE CONE**
Reference Standard / Method of test	:	**COMPANY'S SPECIFICATION**
Description of sample	:	Brand : JISLON Model : NS Type Material : Polyurethane Plastics Quantity : 2 pieces of test samples were submitted for testing.
Our reference	:	SQAS/MAST/11/13
Date received	:	31 / 10 / 2011 (Date of Application)
Job no./Ref. No.	:	J20111270840
Description of test result	:	The submitted test sample as described in this test report complied with the requirement of the above Reference Standard.
Issued date	:	15 FEB 2012

Approved Signatory:

.....
NOOR AZLIE BIN AHMAD
Technical Executive

.....
(HAJI MOHD ADZHAR BIN AHMAD)
Head,
Mechanical Section (MST),
Testing Services Department

SIRIM QAS INTERNATIONAL SDN BHD ★ Mechanical Section

1. INTRODUCTION

Two (2) pieces of test samples indicated as **`Pole Cone' Brand: JISLON, Model: NS Type** were submitted by **RAYSPEED HOLDING SDN. BHD.** for Resistance to Impact Test according to Company's Specification and Requirements.

2. TEST OBJECTIVE

To confirm the quality of the **`Pole Cone' Brand: JISLON, Model: NS Type** developed by **SEKISUI JUSHI CORPORATION** to check where the risk of vehicles impacting the cones is presents.

The purpose of test was to examine the impact durability of two (2) pole cone shall be withstand at 1000 times of impact without failure of the characteristics and performance as stipulated according to Company's Specification and Requirements.

3. TEST PROCEDURE

The tests were done with the Flying Wheel Testing Machine in Sekisui Jushi Ryuo factory in Japan.

The setting parameters showed in page 4.

4. TEST EQUIPMENT

Flying Wheel Testing Machine.

5. CONCLUSION

After the completion of the test, the tested sample was evaluated by visual method. The base of the cones remained undamaged. Although the top (cap of the cones) was suffered some damage and the cones remained functional as normal.

The summary of test result is presented under item 6 for TEST SUMMARY.

SIRIM QAS INTERNATIONAL SDN BHD
Mechanical Section

6. TEST SUMMARY

A. TEST CONDITION

Test Machine	Flying Wheel Testing Machine
Place	Siga Plant, Ryuo factory
Weather Temperature	5 °C
Witness By	i. 2 (two) person's from SIRIM QAS INTERNATIONAL SDN. BHD. (Malaysia) ii. 2 (two) person's from SEKISUI JUSHI CORPORATION (Japan) iii. 1 (one) person's from RAYSPEED HOLDING SDN. BHD. (Malaysia)
Date of Test	1st February 2012

B. TEST SAMPLE

Name	Pole Cone NS Type
Maker	Sekissui Jushi Corporation
Material	Polyurethane Plastics
Height	650 mm
Anchor	Blind anchor M16
Sample Identification	 Pole Cone with extrusion pipe  Pole Cone without extrusion pipe

SIRIM QAS INTERNATIONAL SDN BHD
Mechanical Section

C. TEST RESULT:

TYPE OF TEST	TEST METHOD	REQUIREMENT	OBSERVATION
Resistance to Impact Test	Parameter of the test: i. The wheel speed approaching at 70 ± 1 km/hour*. ii. The wheel load at 1200 kg. iii. Frequency of Impact: 1000 times. Note: * Please refer to Table 1.	Visually determine the impact test which causes any fracture, crack or damage. The tested sample shall be return to a near vertical position following each impacts.	**Complied** Refer to table 1 Please refer to Appendix I, II and III for the photograph of Resistance to Impact Test.

Table 1: Results of Resistance to Impact test for Pole Cone, Brand: JISLON, Model: NS Type

Sample: Pole Cone NS Type	Durability of Impacts	Speed Recorded (km/hour)*	Portion of tested sample			Observation / Remark
			Base	Body	Top (cap)	
Extrusion pipe	1000	i. 69.3 ii. 69.7 iii. 70.2 69.7 km/hour (Average)	OK	OK	558 Impact (dislodged)**	No dislodged and damaged after being subjected of Resistance to Impact test.
Without extrusion pipe	1000		OK	OK	140 Impact (dislodged)**	No dislodged and damaged after being subjected of Resistance to Impact test.

Note:
**The top (cap of pole cone) is not part of design concept by Sekissui Jushi Corporation and its stiffness in the upper part of the cone but remains functional.

SIRIM QAS INTERNATIONAL SDN BHD Mechanical Section

Appendix I

Photo 1: Pole cone must be fastened completely with the torque 106 N.m using special installation tool (SJC tool)

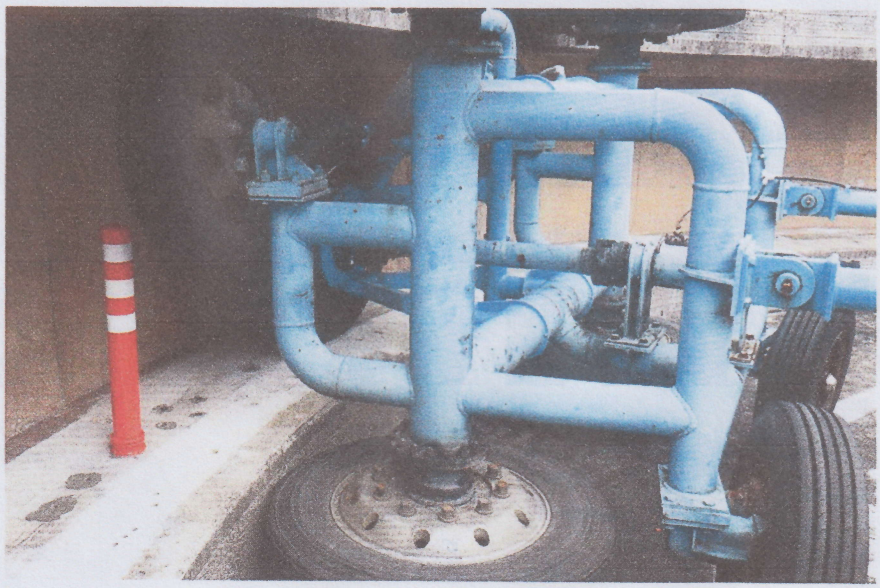

Photo 2: Test set – up (Resistance to Impact Test)

SIRIM QAS INTERNATIONAL SDN BHD
Mechanical Section

Appendix II

Photo 3: Test condition – Pole cone during impact testing

Photo 4: The monitor shows the speed of 70.2 km/hour

Photo 5: The Flying Wheel Tester Machine in Siga Plant, Ryuo factory.

SIRIM QAS INTERNATIONAL Mechanical Section

Appendix III

Photograph of tested sample identified as Pole Cone

Photo 6 and 7: Photograph before and after.
The top of pole cone with extrusion pipe was broken at 588 impacts.

Photo 8 and 9: Photograph before and after.
The top of pole cone without extrusion pipe was broken at 140 impacts.

SIRIM QAS INTERNATIONAL SDN BHD
Mechanical Section