

RAYSPEED HOLDING SDN BHD

JISLON FLEXIBLE POST

Day



Night



The only product in
Malaysia tested by
SIRIM can withstand
1000 times impact



Contact Us :

**RAYSPEED HOLDING SDN BHD
P.O BOX 300 , 70730 SEREMBAN
NEGERI SEMBILAN DARUL KHUSUS
TEL :+6 012-205 2736
PIC : MR.WAN AZMAN WAN SULAIMAN**

Contact Us :

Sabah and Sarawak

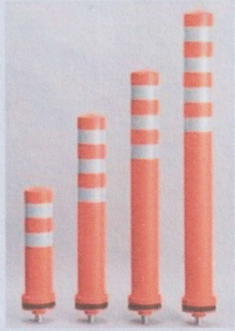
**RAYSPEED HOLDING SDN BHD
P.O BOX 16886,88872 KOTA KINABALU
SABAH
TEL :+6 019-871 5529
PIC : MR.KHALID**

Contact Us :

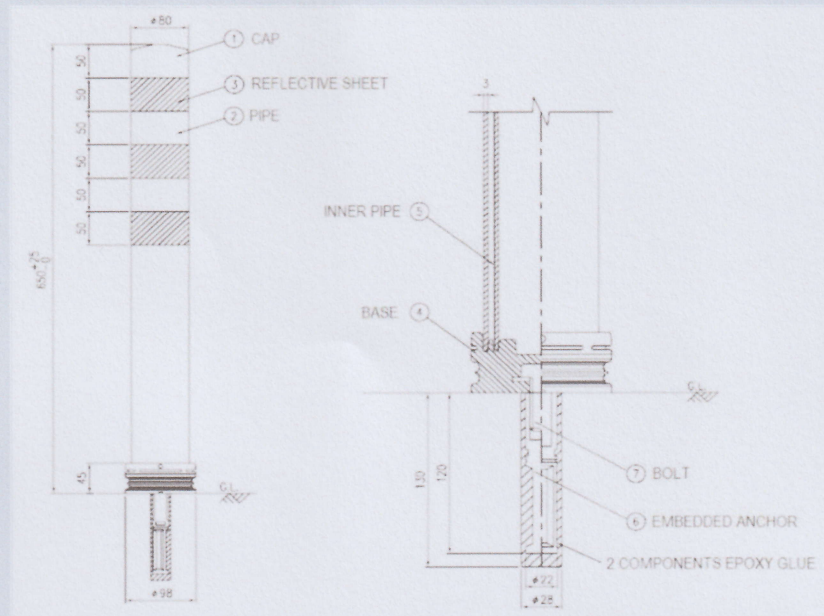
Indonesia Office

**PT RAYSPID INDONESIA
BLOCK D-03A GRAHA CHEMPAKA MAS
JL LETJEN SUPRAPTO JAKARTA 10640
TEL : +62 816 750 283
PIC : MR . ARFA REZY**

Product Range & Specification



| TYPE | HEIGHT | COLOUR | FIXATION |
|-------------|--------|----------------|-----------------|
| PC-40NSERW | 400mm | Orange & Green | Embedded Anchor |
| PC-65NSERW | 650mm | Orange & Green | Embedded Anchor |
| PC-80NSERW | 800mm | Orange & Green | Embedded Anchor |
| PC-100NSERW | 1000mm | Orange & Green | Embedded Anchor |



With inner pipe for added strength

Characteristics

Quick rebound and easy to bend

Polyurethane designed to rebound more than 1000 times and bend easily.

Fast installation

Single embedded anchor, quick and easy to install.

High visibility

High reflective sheet, improve safety and visibility.

Low maintenance

Crash friendly and high durability.

High resistance performance

Good resistance against calcium, chloride and other chemical.

Flexibility

Suitable for use in many applications.

Easy to replace

With embedded anchor replace top part only.



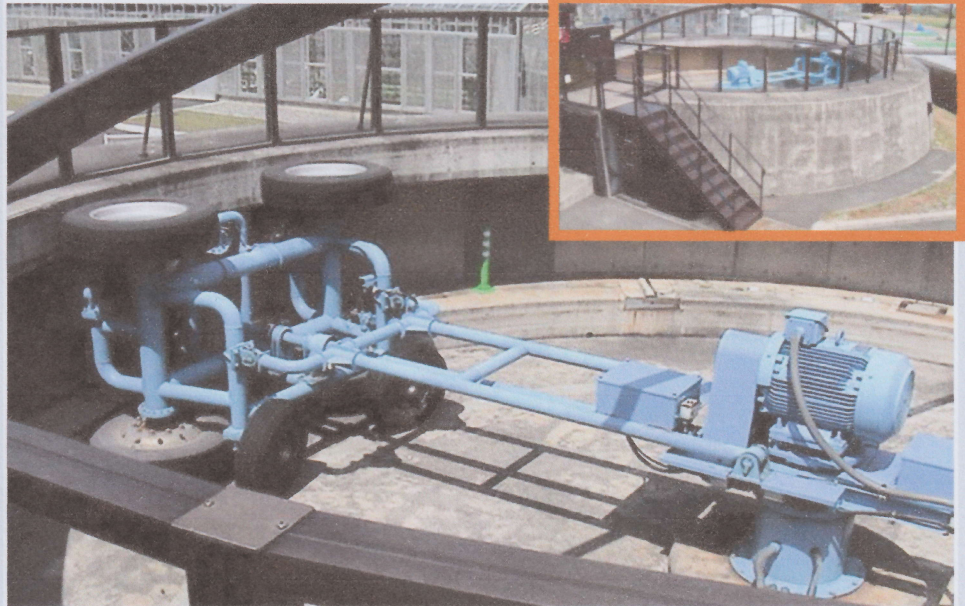
Rebound Performance

❑ **Test condition:**

Speed: 70km/h
 Load: 800kg
 Frequency: 1000 times

❑ **Result:**

After 1000 hits, the flexible post rebound to original position.



Installation Works

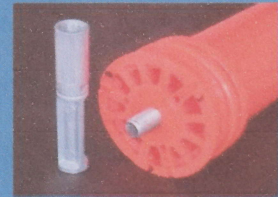


Current Problems



Three screw can easily dislodge with impact, stump and screws remain on the road

Solutions



Single embedded anchor in the middle



Product easily damage and bend after impact several times



Tested can withstand at least 1000 times impact

Test Report



SIRIM QAS International Sdn. Bhd. (Company No. 40374-X)
 No. 1, Persiaran Damai, Medan, P.O. Box, 9011, Section 7,
 40911 Shah Alam, Selangor Darul Ehsan, Malaysia
 Tel. No. (603) 5144-7900/4400/4400/4400
 Fax No. (603) 5144-6100

TEST REPORT

REPORT NO. J20111270840 PAGE: 1 OF 7

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf for Conditions Relating To The Use of Test Report.

Applicant : RAYSPED HOLDING SDN. BHD. (679166-A)
 No. 661 2nd Floor,
 Oakland Commercial Centre,
 Jalan Harian 4-10,
 70300 Seremban,
 Negeri Sembilan Darul Khusus.

Manufacturer : SEKISUI JUSHI CORPORATION
 Dojima Kanden Building,
 2-4-1, 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/MAS/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

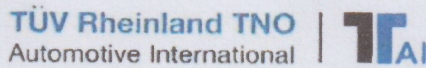
Approved Signatory :

NOOR AZLIE BIN AHMAD
 Technical Executive

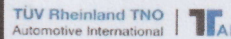
(HAJI MOHD ADZHAR BIN AHMAD)
 Head,
 Mechanical Section (MST),
 Testing Services Department



SIRIM Test Report: J20111270840



TTAI Test Report: 10.TR.088/JDL



TTAI Test report
 10.TR.088/JDL

Durability tests on TRAFFIC Pole Cones manufactured
 by Sekisui Jushi Corporation
 TTAI test no.: CL103904-06

TUV Rheinland TNO
 Automotive International B.V.
 Steenovenweg 10
 NL-5708 HN Helmond
 Phone +31 492 730 791
 Fax +31 49 265 2742
 Management Board
 Kaja Pankov (chairman)
 Achim Schmitz
 KUK 17214164
 Tax Number NL8186.93.113.B01
 www.t-automotive.eu

Date : 20 December 2010

Author : J.P.J. de Lang

Client/Sponsor : Sekisui Jushi B.V.
 Ringweg 50
 6945 JL Roermond
 THE NETHERLANDS.

Approved by : H. Tavernier

Project Manager :

Also seen by : K. Pankov

General Manager :

Test date :

Number of pages : 9

Number of appendices : 4

The quality system of TTAI
 conforms to ISO 17025

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JABATAN KERJA RAYA MALAYSIA

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Ibu Pejabat JKR Malaysia
Jalan Sultan Salahuddin
50582 Kuala Lumpur

Telefon : 03 - 26108041/7709 - (BPKS)
Faks : 03 - 26910663 / 03 - 26925475
Laman Web : <http://www.jkr.gov.my>



Ruj. Kami : (1) dlm JKR.PCJ/18.600/050/122/RMAL
BERSAMA Jld 3

Tarikh : (16) Ogos 2018

Rayspeed Holding Sdn Bhd

P.O. Box 300,
70730 Seremban,
Negeri Sembilan.

Tuan,

**KEPUTUSAN MESYUARAT JAWATANKUASA BERSAMA (JKR-LLM)
KELULUSAN PRODUK BAGI KERJA-KERJA JALAN (JBKPJ) BIL. 3/2018**

PRODUK: JISLON FLEXIBLE POST (PEMBAHARUAN)

Dengan segala hormatnya perkara di atas adalah dirujuk dan Mesyuarat Jawatankuasa Bersama (JKR-LLM) Kelulusan Produk bagi Kerja-Kerja Jalan Bil.3/2018 yang diadakan pada 26 Julai 2018 adalah berkaitan.

2. Adalah dimaklumkan, Jawatankuasa Bersama (JKR-LLM) Kelulusan Produk bagi Kerja-Kerja Jalan telah memutuskan bahawa produk **JISLON FLEXIBLE POST** adalah **LULUS** penguanaanya dan dilanjutkan tempoh kelulusan.

3. Disertakan bersama-sama ini ulasan berkenaan produk seperti di LAMPIRAN A untuk makluman dan perhatian pihak tuan.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,

(DATO' IR. HJ. CHE NOOR AZEMAN BIN YUSOFF)

Pengerusi
Jawatankuasa Bersama (JKR-LLM)
Kelulusan Produk Bagi Kerja-kerja Jalan
b.p Ketua Pengarah Kerja Raya
Ibu Pejabat JKR Malaysia

..2/-





KEPUTUSAN MESYUARAT JAWATANKUASA BERSAMA (JKR-LLM) KELULUSAN
PRODUK BAGI KERJA-KERJA JALAN BIL.3/2018

SYARIKAT : Rayspeed Holding Sdn. Bhd.
PRODUK : JISLON *Flexible Post*
MODEL : NS Type
BAHAN : Polyurethane Plastic
PENGILANG : Sekisui Jushi Corporation (Osaka, Jepun)
KEPUTUSAN : **LULUS**
SAH SEHINGGA : **28 Ogos 2020**

ULASAN:

- i. Produk telah mematuhi ujian ketahanan Impact durability yang disahkan oleh pihak SIRIM QAS INTERNATIONAL SDN BHD berdasarkan laporan no. J20111270840.

TEST REPORT

| | |
|--|---------------|
| REPORT NO.: J20111270840 | PAGE : 1 OF 7 |
| <p>This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf for Conditions Relating To The Use of Test Report.</p> | |

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 No. 661 2nd Floor,
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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



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1. INTRODUCTION

Two (2) pieces of test samples indicated as **'Pole Cone' Brand: JISLON, Model: NS Type** were submitted by **RAYSPPEED 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.





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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 | 1 st 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 | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Pole Cone with extrusion pipe</p> </div> <div style="text-align: center;">  <p>Pole Cone without extrusion pipe</p> </div> </div> |



Handwritten signature/initials

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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. <u>Note:</u> * 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 | OK | OK | 558 Impact (dislodged)** | No dislodged and damaged after being subjected of Resistance to Impact test. |
| Without extrusion pipe | 1000 | 69.7 km/hour (Average) | 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.



Signature

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Appendix I



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

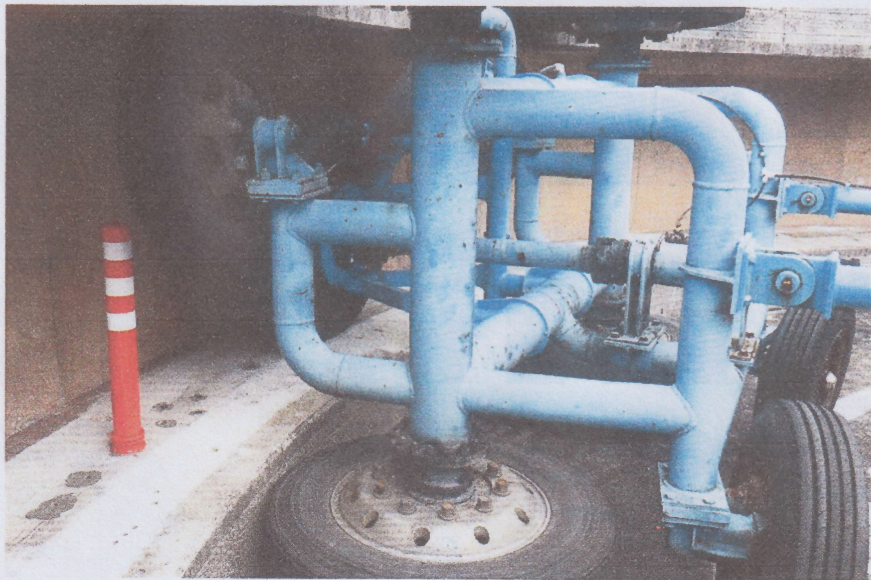


Photo 2: Test set – up (Resistance to Impact Test)

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Appendix II



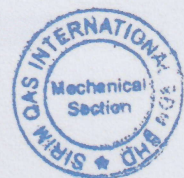
Photo 3: Test condition – Pole cone during impact testing



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



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



Signature

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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.



Signature