

**Diamond Grade Conspicuity Vehicle Marking
by 3M Traffic Safety & Security Division**



Vehicle Marking Industry Overview

- **3M Malaysia Traffic Safety & Security Division (TSSD) will be introducing a new benchmark standard to the automotive industry by year 2014**
- **In efforts to advocate for an increase in road safety awareness, specifically to reduce rear-end collision, the new standard will require all lorry drivers to abide to a new mandatory regulation that calls for all heavy and long vehicles as well as trailers to have rear and side markings certified by the government.**
- **3M TSS will be positioned as the core contributor as they work with PUSPAKOM and JPJ to make the standard a reality.**
- **The initial rollout for this campaign will utilize the 3M™ Diamond Grade™ (DG3) lorry marking that is compliance and certified according to MS 828:2011 (Malaysian Standard from SIRIM) Road Vehicles – Rear and Side Marking Specification.**

Key Messages of Diamond Grade Vehicle Marking

- Safety Issues and cooperate with JPJ and PUSPAKOM, will be introducing a new benchmark standard to the automotive industry to provide solutions for the betterment of the nation's road safety.
- A new **mandatory regulation** will be introduced requiring all heavy and long vehicles as well as trailers to have rear and side markings for increased vehicle conspicuity to reduce rear-end collisions.
- 3M™ Diamond Grade™ (DG3) lorry marking that is compliance and certified according to MS 828:2011 (Malaysian Standard from SIRIM) Road Vehicles – Rear and Side Marking Specification
- The road safety programme with the government will firstly utilize the 3M™ Diamond Grade™ (DG3) lorry marking – a compliant and certified high-performance prismatic reflective sheet that enhances visibility – a solution to traffic safety for the automotive industry.

The Products- Diamond Grade Vehicle Marking



Product Certification: Approved Accordance 828:2011



No Lesen : PC000666
Licence No :

LESEN PENSIJILAN BARANGAN Product Certification Licence



SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

3M MALAYSIA SDN. BHD.
BANGUNAN 3M,
NO. 6, PERSIARAN TROPICANA
47410, PETALING JAYA
SELANGOR, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on
SIDE AND REAR MARKING FOR ROAD VEHICLE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 828 : 2011

Khalidah Mustafa

Khalidah Mustafa
Pengarah Urusan
Managing Director
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
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MALAYSIA.
Tel : 60-3-55446400
Faks : 60-3-55446466
http://www.sirim.com.my
http://www.malayiancertified.com.my

Tarikh Mula Pensijilan : 12 July 2013
Certified Since
Sah Sehingga : 12 July 2014
Valid Until

Tarikh Dikeluarkan : 18 September 2013
Issue Date
No Siri : 007387
Serial No

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.



No Lesen : PC000666
Licence No :

SCHEDULE

3M MALAYSIA SDN. BHD.



Brand	: 3M, DIAMOND GRADE
Model	: DG3 HS
Rating	: THIS MODEL IS CERTIFIED WHILE WAITING FOR OUTDOOR WEATHERING TEST RESULTS(CLAUSE E1.4.3 OF MS 828:2011) WHICH WILL BE COMPLETED IN DECEMBER 2015
Type	: TYPE 1 : RIGHT & LEFT (PAIR)
Size	: WIDTH X LENGTH (mm) = 150 X 600
Brand	: 3M TM DIAMOND GRADE
Model	: DG3 VS
Rating	: THIS MODEL IS CERTIFIED WHILE WAITING FOR OUTDOOR WEATHERING TEST RESULTS(CLAUSE E1.4.3 OF MS 828:2011) WHICH WILL BE COMPLETED IN DECEMBER 2015
Type	: TYPE 2 : RIGHT & LEFT (PAIR)
Size	: WIDTH X LENGTH (mm) = 150 X 600
Brand	: 3M, DIAMOND GRADE
Model	: DG3 KP
Rating	: THIS MODEL IS CERTIFIED WHILE WAITING FOR OUTDOOR WEATHERING TEST RESULTS(CLAUSE E1.4.3 OF MS 828:2011) WHICH WILL BE COMPLETED IN DECEMBER 2015
Type	: TYPE 3 : KENDERAAN PANJANG & KENDERAAN LEBAR
Size	: WIDTH X LENGTH (mm) = 250 X 750
Brand	: 3M, DIAMOND GRADE
Model	: DG3 KPL
Rating	: THIS MODEL IS CERTIFIED WHILE WAITING FOR OUTDOOR WEATHERING TEST RESULTS(CLAUSE E1.4.3 OF MS 828:2011) WHICH WILL BE COMPLETED IN DECEMBER 2015
Type	: TYPE 4 : KENDERAAN PANJANG & LEBAR
Size	: WIDTH X LENGTH (mm) = 250 X 750

Brand	: 3M, DIAMOND GRADE
Model	: DG3 SM
Rating	: THIS MODEL IS CERTIFIED WHILE WAITING FOR OUTDOOR WEATHERING TEST RESULTS(CLAUSE E1.4.3 OF MS 828:2011) WHICH WILL BE COMPLETED IN DECEMBER 2015
Type	: TYPE 5 : SIDE MARKING
Size	: WIDTH X LENGTH (mm) = 50 X 300

Factory Name and Location :
3M SEREMBAN (MALAYSIA) SDN. BHD.
LOT 15 & 19
PERSIARAN BUNGA TANJUNG 2
SENAWANG INDUSTRIAL PARK
70450, SEREMBAN
NEGERI SEMBILAN, MALAYSIA

3M Worldwide and Local Certification _ Tested Performance

4. Summary of Test Results

Overall conclusion of the examination carried out, "Rear and Side Marking" submitted by 3M MALAYSIA Sdn. Bhd. with model: Diamond Grade™ had showed that the tested samples in compliance with the mentioned Test Specification.



**AUTOMOTIVE ENGINEERING CENTRE
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TEST REPORT

REPORT NO.: AEC2012-039

Job/Project No : 2012 ACC-027
Date received : July 26, 2012
Applicant : **Mechanical Group,
Product Certification Section
SIRIM QAS International Sdn Bhd**
(Attn: En. Khaizuran Mohd Salleh)
Ref. No.: P5-006500

For : **3M MALAYSIA SDN BHD (7251-V)
BANGUNAN 3M
NO. 6, PERSIARAN TROPICANA
47410 PETALING JAYA, SELANGOR**
(Attn: En Abdul Razak Hashim)

Product : **SIDE AND REAR MAKING FOR ROAD VEH**
(Vehicle conspicuity Rear and Side Making)

Reference Standard/ Method of test : MS 828: 2011-Road Vehicles-Rear and Specification (Second Revision)

Description of sample : Brand : 3M™ DIAMOND GRADE™
Material : DIAMOND GRADE

Issued date : 23 MAY 2013

Reviewed by:

(MOHD HAZAR MUSTAFA)
Sr. Engineer

Approved by:

(ZULKIFLI ZAHARI)
Head of Homologation & Test
Section
Automotive Engineering Cent
SIRIM Berhad

SIRIM Berhad
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MALAYSIA

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REPORT NO.: AEC2012-039

3. Test Result

The test results of the test are summarized in Clause 5-Observation and findings of this test Report. Detailed results concerning the colorimetric and photometric measurements are recorded in Appendix 1, Appendix 2, Appendix 3, Appendix 4, Appendix 5 and Appendix 6.

4. Summary of Test Results

Overall conclusion of the examination carried out, "Rear and Side Marking" submitted by 3M MALAYSIA Sdn. Bhd. with model: Diamond Grade™ had showed that the tested samples in compliance with the mentioned Test Specification.

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62620 PUTRAJAYA

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Ruj. Kami : (86) dim.JPJ.10/40(8) Jld.67
Tarikh : 20 November 2013

3M Malaysia Sdn. Bhd.
Level 8, Block F, Oasis Square
No. 2, Jalan PJU 1A/7A, Ara Damansara
47301 Petaling Jaya
Selangor Darul Ehsan.
(U.p.: En. Abdul Razak Hashim)

Tuan,

PENSIJILAN BARANGAN DI BAWAH STANDARD MS828:2011 (ROAD VEHICLES - REAR AND SIDE MARKING)

Dengan segala hormatnya saya merujuk kepada perkara di atas.

2. Setelah meneliti dokumen yang dikemukakan, Jabatan ini mengambil maklum terhadap produk keluaran syarikat tuan iaitu Road Vehicle : Rear and Side Marking bagi buatan 3M, Diamond Grade model DG3 HS, DG3 VS, DG3 KP, DG3 KPL dan DG3 SM adalah telah mematuhi MS 828:2011 melalui Sijil Pengiktirafan daripada SIRIM QAS bertarikh 26 September 2013 dan No. Lesen Pensiujian Barangan : PC000666.

3. Segala kerjasama daripada pihak tuan amatlah dihargai.

Seharian, terima kasih.

"MESRA, CEKAP, TELUS"
"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,

(MOHD SHARULNIZAM BIN SARIP)

Timbalan Pengarah
Bahagian Kejuruteraan Automotif
b.p. Ketua Pengarah Pengangkutan Jalan
Malaysia.

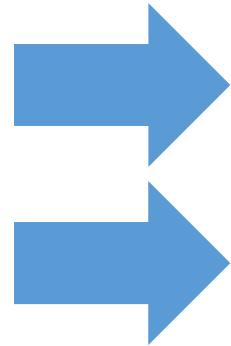
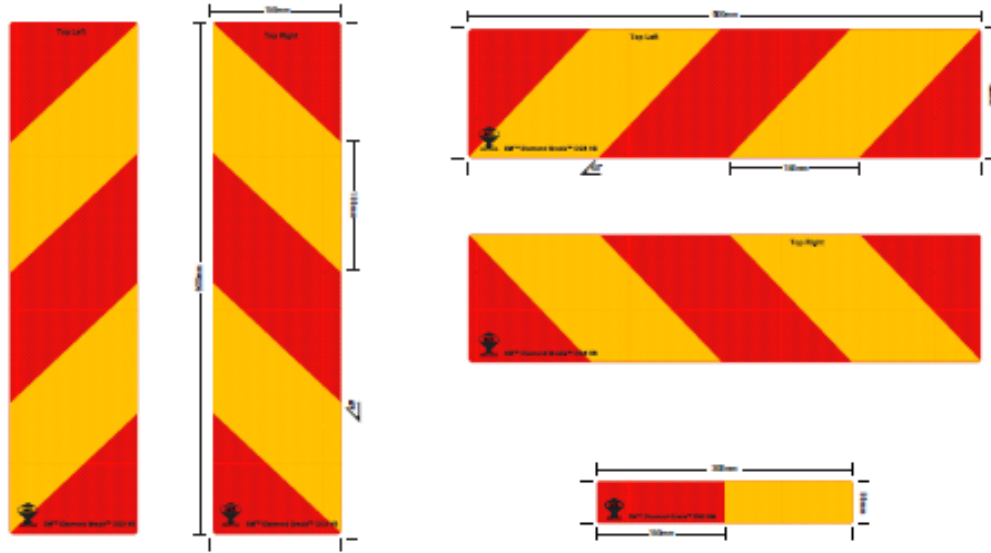
s.k. i) YBhg. Dato' Sri KP
ii) Ketua Pegawai Operasi PUSPAKOM

3M Vehicle Marking Distinctive Features

Anti Tempered Security Label with Running Number



Impact Of The New Standards



Road Safety Campaign Local Authorities



Road Show by Trafitech to Public



Trailers with 3M Diamond Grade to Mobile Inspection by Puspakom and 3M Counter





