



# COMPANY PROFILE

A-2-5, Plaza Damas 3,  
Jalan Sri Hartamas 1,  
Taman Sri Hartamas  
50480 Kuala Lumpur

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# COMPANY DESCRIPTION

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## ABOUT US

Malaya Engineering Sendirian Berhad is a leading construction and maintenance company specializing in building and road infrastructure projects. With a Class G4 license and various other certifications, we have established ourselves as a reliable partner in the industry, delivering exceptional quality and service to our clients.

## OUR PARTNERSHIP

In 2022, Malaya Engineering Sdn Bhd forged a strategic partnership with Evonik Industries AG (a stock-listed German specialty chemicals corporation headquartered in Germany). This collaboration has led to the development of Asphalt+, a refined product born from the fusion of Malaysian rubber powder with Evonik's cutting-edge modifier, Vestenamer®.

Additionally, this partnership grants us the exclusive distribution rights for Vestenamer®, further solidifying our commitment to delivering excellence and innovation to our clients.

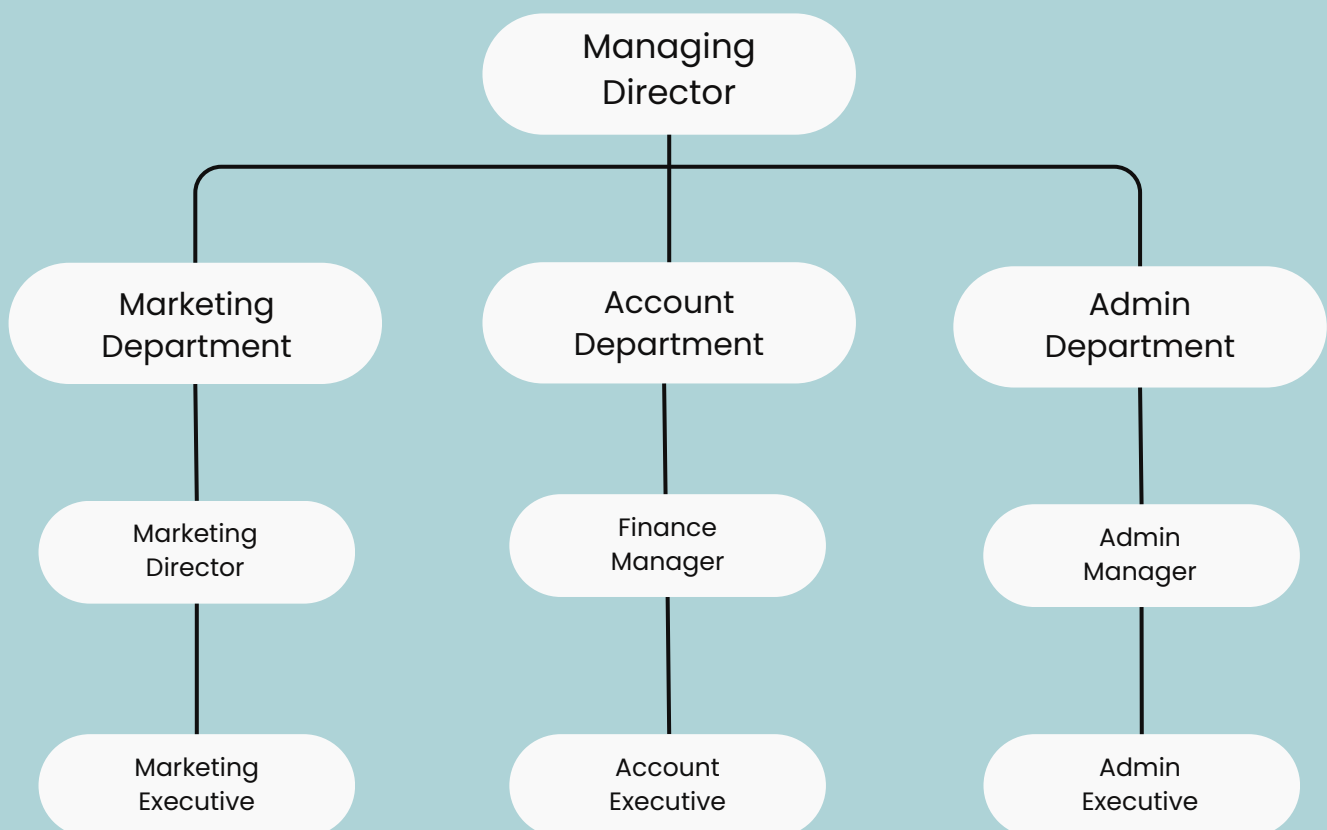
## OUR MISSION

As we continue to push the boundaries of excellence in construction and maintenance, Malaya Engineering Sdn Bhd remains dedicated to fostering strategic partnerships, driving innovation, and delivering exceptional value to our clients. We are set to redefine industry standards and lead the way towards a more sustainable and resilient future.

# ORGANIZATIONAL CHART

## How we are governed

Our governance adheres to our constitution, overseen by a team of elected and appointed professionals. We ensure that our governance framework remains robust, transparent, and aligned with the values and objectives of our organization.



# CERTIFICATES & REGISTRATIONS

**PERAKUAN PENDAFTARAN**

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembiayaan Malaysia 1994. Pendaftaran ini adalah terikat kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran : 0120220901-WP105411  
 Nama Kontraktor : MALAYA ENGINEERING SDN. BHD.  
 Alamat Berdaftar : 2-16, PANGSAPURI SERI MESRA JALAN BAHAGIA 29 TAMAN SRI BAHAGIA  
 56000 KUALA LUMPUR  
 WILAYAH PERSEKUTUAN KUALA LUMPUR

Daerah : KUALA LUMPUR  
 Tarikh Mula Berdaftar : 01/09/2022

| SISIK | KATEGORI | PERINGKAT/URUSAN |
|-------|----------|------------------|
| 04    | B        | B04              |
| 04    | CE       | CE21             |
| 04    | ME       | M15              |

Tarikh Mula Berkuatkuasa : 01/09/2022  
 Tarikh Habis Tempoh Perakuan : 31/08/2024  
 STATUS: BARU

Ketaa Eksekutif  
 Lembaga Pembangunan Industri Pembiayaan Malaysia  
 Tarikh: 06/09/2022

COMPANIES ACT 2016  
 (ACT 777)

**CERTIFICATE OF INCORPORATION  
 OF PRIVATE COMPANY**

This is to certify that

**MALAYA ENGINEERING SDN. BHD.  
 202201024842 (1470539-H)**

is, on and from the 8<sup>th</sup> day of July 2022, incorporated under the Companies Act 2016, and that the company is a company limited by shares and that the company is a private company.

Dated at KUALA LUMPUR this 8<sup>th</sup> day of July 2022.

**DATUK NOR AZIMAH ABDUL AZIZ**  
 REGISTRAR OF COMPANIES  
 MALAYSIA

Uyar ke MIMBARADILLA Date: 06 Jul 08 14:55:15 2022 Printing Date: 09/07/2022  
 This certificate is generated from MYDATA SSM Services as at 09/07/2022 14:55:15  
 MENARA SSAG/SENTRAL, NO. 7, JALAN S.S.03/01, 6, KUALA LUMPUR SENTRAL, NORTH KUALA LUMPUR,  
 TEL: 03-2098 4400 FAX: 03-2098 4411 1 / 1

**Certificate of Achievement**

This is to Certify that

**MALAYA ENGINEERING SDN. BHD.**  
 0120220901-WP105411  
 Grade Registered : G4

has been evaluated according to the SCORE criterias set by the Board and has achieved the rating of

(3 Star)

for the year  
 2022  
 (Valid until 10/10/2024)

*Good management and technical capabilities, compliance to best practices and good project management.*

Ketaa Eksekutif  
 Lembaga Pembangunan Industri Pembiayaan Malaysia  
 11/10/2022

SC075282

# CORE BUSINESSES



## PROBLEM STATEMENT

Our mission is to address Malaysia's waste tyre problem by creating sustainable solutions. Through collaboration with Evonik Industries AG to develop Asphalt+, our goal is to establish effective waste tyre management frameworks, contributing to a cleaner, greener future.

## ASPHALT+

- An innovative elastomeric (CRMA) and asphalt modifier (Vestenamer®) designed for effortless application.
- Manufactured in compliance with Evonik Industries AG's patented process, Asphalt+ combines high-quality Malaysian rubber powder with 4.5% Vestenamer®.
- Can be delivered in separate packaging for easy integration into asphalt/bitumen at the mixing plant/blending facility (wet processing) or directly on site (dry processing).

# VALUE PROPOSITIONS

## SIMPLIFIED MIXING PROCESS

Asphalt+ streamlines asphalt mixing with its one-component modifier, eliminating the need for additional cleaning agents. Suppliers benefit from a hassle-free process, saving time and resources.

## EASE OF APPLICATION

With Asphalt+, application becomes effortless, requiring only standard Macadam Roller and Tandem Roller machinery. This simplicity translates to increased efficiency and reduced operational costs.



## ENHANCED DURABILITY

Asphalt+ boosts the resilience of asphalt mixes, offering greater resistance to cracking and rutting. This leads to longer-lasting roads that require less frequent maintenance and repairs, saving both time and money.

## VERSATILE APPLICATION

Asphalt modified with Asphalt+ offers a wider temperature window for application, providing flexibility in various weather conditions. This versatility extends beyond compaction to manual operations, such as around driveways and curves, enhancing overall project efficiency and quality.

# VALUE PROPOSITIONS



## NOISE REDUCTION

The unique properties of Asphalt+ include noise reduction capabilities, achieved through voids in gap-graded materials and CRMA compounds. This contributes to enhancing overall environmental quality and community well-being.

## IMPROVED SKID RESISTANCE

Asphalt+ enhances road safety by improving skid resistance, reducing the risk of accidents and ensuring a safer driving experience for all.

## SUPERIOR PERFORMANCE

Compared to existing CRMA specifications, Asphalt+ sets a new standard for asphalt modifiers with its stability and flow properties, making it the preferred choice for modern road construction projects

## ENVIRONMENTAL ADVANTAGE

Utilizing Asphalt+ contributes to a greener environment by reducing emissions of N-nitrosamines and volatile compounds. Its use of recycled materials aligns with sustainability goals, making it an eco-friendly choice for road construction projects.

# LAB TEST RESULTS

**PAVEMENT LABORATORY**

Form : PL-F-LWS-09  
Issue No : 2  
Rev. No : 1  
Eff. Date : 02/2022  
Page No : 6 of 6

|              |                          |                     |                    |   |
|--------------|--------------------------|---------------------|--------------------|---|
| Request No : | Temperature (°C): 27.3°C | Pressure: 73.4 mmHg | Equipment Used     |   |
| Project:     | INTERNAL TESTING         |                     | 1 Balance No. 2    | 5 |
|              |                          |                     | 2 Oven No. 3c      | 8 |
|              |                          |                     | 3 Thermometer No 2 | 7 |
|              |                          |                     | 4 Water Bath No. 2 | 8 |

|                                 |                      |                        |                     |              |           |
|---------------------------------|----------------------|------------------------|---------------------|--------------|-----------|
| TYPE OF MIX                     | CR - GGA             | Mixing Temperature     | 180°C               | LOCATION     | LAB PAVES |
| AVA, SP, GR, AGG, BLEND ( GAG ) | 2.663                | Compacting Temperature | 150°C → 5           | DATE SAMPLED | 29/08/23  |
| SP, GR, BIT ( GAC )             | 1.02                 | Test Temperature       | 60°C for 45 minutes | DATE TESTED  | 30/08/23  |
| PEN, BR, BIT                    | 60/70 + CRUMB RUBBER |                        |                     | SAMPLED NO.  | 3         |

| SAMPLE NO            | % BIT, SPEC. NO. | SPEC. HGT. (mm) | WEIGHT gm |       | BULK VOL. CC. | SPECIFIC GRAVITY |       | VOLUME % TOTAL |       |           | VOIDS % |       | CORR. FACTOR (mm) | STABILITY N   |           | FLOW (mm) | STIFFNESS N/mm |
|----------------------|------------------|-----------------|-----------|-------|---------------|------------------|-------|----------------|-------|-----------|---------|-------|-------------------|---------------|-----------|-----------|----------------|
|                      |                  |                 | In Air    | SSD   |               | In Water         | Bulk  | Max. Theor.    | Bit   | Agg       | Voids   | Agg.  |                   | Filled (Bit.) | Total Mix |           |                |
| 6.00                 | 64.28            | 1094.1          | 1098.6    | 610.4 | 488.2         | 2.241            |       |                |       |           |         |       | 0.98787           | 6673          | 6592.0    | 4.416     |                |
|                      | 64.33            | 1083.3          | 1093.4    | 610.5 | 482.9         | 2.243            |       |                |       |           |         |       | 0.98710           | 7166          | 7073.5    | 4.484     |                |
|                      | 64.22            | 1093.2          | 1102.4    | 612.5 | 489.9         | 2.231            |       |                |       |           |         |       | 0.98879           | 6848          | 6771.2    | 4.510     |                |
| <b>AVERAGE</b>       |                  |                 |           |       |               | 2.239            | 2.281 | 13.17          | 80.84 | 5.99      | 19.16   | 68.73 | 5.99              |               | 6812.3    | 4.473     | 1523           |
| <b>SPECIFICATION</b> |                  |                 |           |       |               |                  |       |                |       | 4.5 - 6.5 | > 19 %  |       |                   |               | > 6000    | 2 - 5     |                |

REMARK : RUBBER CRUMB FROM SG. BULUH

|           |             |            |          |
|-----------|-------------|------------|----------|
| Tested By | ABDUL MAJID | Checked By | NASIR    |
| Signature |             | Signature  |          |
| Time      | 11:30 am    | Time       | 1:30 pm  |
| Date      | 30/08/23    | Date       | 30/08/23 |

**PAVEMENT LABORATORY**  
**BINDER DRAIN DOWN (SCHELLENBERG METHOD)**

|                       |   |               |          |
|-----------------------|---|---------------|----------|
| Description Of Sample | CR- GGA (RUBBER CRUMB ( 5.75) VESTANAMER (0.25) BITUMEN (60) AGGERAGATE (934) | Date Sample : | 4/9/2023 |
|                       |   | Curing Temp : | 170°     |
|                       |   | Curing Time : | 3 hours  |

|  | Sample 1 | Sample 2 | Sample 3 | Sample 4 |
|--|----------|----------|----------|----------|
| 1 WEIGHT OF SAMPLE + CONTAINER BEFORE                      | 1007.8   |          |          |          |
| 2 WEIGHT OF SAMPLE CONTAINER, g                            | 400.0    |          |          |          |
| 3 WEIGHT OF SAMPLE WEIGHT OF SAMPLE, g                     | 607.8    |          |          |          |
| 4 WEIGHT OF SAMPLE + CONTAINER AFTER( after heated 170°),g | 1006.4   |          |          |          |
| 5 WEIGHT OF CONTAINER + RESIDUE AFTER                      | 1.4      |          |          |          |
| 6 WEIGHT OF BITUMEN IN CONTAINER                           |          |          |          |          |
| 7 LOSS (%)   | 0.14     |          |          |          |
| 8 AVERAGE (< 0.2%)   |          |          |          |          |

|                |                  |             |            |   |                            |
|----------------|------------------|-------------|------------|---|----------------------------|
| Project Title: | INTERNAL TESTING | Checked By: |            | MOHD NASIR BIN REBU<br>Manager (Pavement Laboratory)<br>IKRAM PAVES SDN. BHD. | QUALITY CONTROL LABORATORY |
| Tested By:     |                  | Date:       | 08/09/2023 |   |                            |



# GET IN TOUCH

To establish and maintain consistent communication with clients, partners, and stakeholders, showcasing our company's achievements, innovations, and services, while also seeking valuable feedback to continuously improve our offerings and strengthen business relationships.

## **CONTACT US :**



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