

# Industrial Road Stabilisation for International Warehouse



## Daiso Global Distribution Centre

**Pulau Indah, Selangor, Malaysia**

The warehouse is located near to Port Klang, an area prone to deep soft marine clay. The contractor is looking for a cost-effective solution for internal roads to support daily traffic for heavy vehicles, such as container trucks.

### CLIENT'S CHALLENGE

The warehouse near Port Klang required internal roads to support 100 daily passes of container trucks and 220 passes of worker buses over a 15-year design life. The road should achieve a minimum serviceability maintenance, particularly in differential settlement and under acceptable long-term settlement range as per Jabatan Kerja Raya (JKR) guideline.

### TENSAR SOLUTION

Mechanically Stabilised Layer (MSL) using Tensar TriAx was applied to stabilise the base and sub-base course. The pavement design followed ATJ 5/85 Mechanistic-Empirical method to accommodate soft subgrade, enhancing pavement support, accelerate road construction and eliminating deep ground improvement needs.

## B E N E F I T S

- **Cost effective, eliminate** the needs of deep ground improvement
- **Easy and Rapid** installation
- **Enhanced Pavement life** on soft subgrade

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### PROJECT DETAILS

Constructed in  
**2025**

Project Owner  
**Daiso Malaysia Group Sdn Bhd**

Project Consultant  
**Geo-Excel Consultants Sdn Bhd**

Project Contractor  
**Kajima (Malaysia) Sdn Bhd**

Product  
**Multiaxial geogrid**



Road base construction underway at Daiso warehouse distribution centres with Multiaxial geogrid

**Road, Pavement, & Trafficked Areas | No. 541**

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