

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 4865

24 May 2024

AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 10 June 2021, issued an Agrément certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2018/581 (Finalised June 2021)

Subject: GB5 High Modulus Asphalt System

Certificate holder: Much Asphalt (Pty) Ltd

Description: GB5 High Modulus Asphalt System is a high-performance asphalt mix paved in a conventional manner. It consists of graded crushed aggregate, Styrene-Butadiene-Styrene (SBS) modified bitumen, filler and reclaimed asphalt (RA) up to 25%. It is applied as a base or surface pavement layer (with due consideration given to expected functional properties such as macro texture/skid resistance as well as fatigue properties based on total pavement structure and expected traffic loading).

The mix design, manufacturing and application of the product is to be strictly controlled. The final mix and properties of the GB5 High Modulus Asphalt System depend on the specifications of the mix designs as done by EIFFAGE Travaux Public for the plant and material to be used. All materials are sourced from South Africa and the proportions vary slightly from area to area, depending on the aggregate available in the area. Aggregates must comply with the latest requirements of Committee of Land Transport Officials, **COLTO** standard specification.

The bitumen binder 35/50 penetration grade must conform to the requirements of **SANS 4001-BT1** which is then modified with SBS and this is determined in the design process based on site-specific conditions. GB5 High Modulus Asphalt System is manufactured in a hot-mix asphalt plant, and applied by a conventional paver, over a tack coat applied at a tolerance of $\pm 0.2 \text{ l/m}^2$. GB5 High Modulus Asphalt System must always be manufactured at an appropriate temperature (approximately 170°C).

The Agrément certificate contains detailed information on the system and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: Chief Executive Officer (CEO)

Agrément South Africa, P O Box 72381, LYNNWOOD RIDGE, 0040