

Pavement Optimisation Data Capture Form

Project Name & Location		Required Return Date: <small>Please note we usually require at least 5 working days</small>
Drawings Included Y / N	Ground Investigation Y / N	Customer Company & Contact:

REQUIRED FIELDS IN BLUE

LINK TO TENSAR PAVEMENT OPTIMISATION WEBSITE

Length m <small>Total length of the trafficked area</small>	Width m <small>Total width of the trafficked area</small>	Total Area m ² <small>Total area of the trafficked area</small>	Groundwater Level mbgl <small>Groundwater level to be included</small>
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PAVEMENT DETAILS	Pavement Specific Details Below			Parameters assumed or derived from <small>Where are the parameters to the left derived from?</small>	
Subgrade Description <small>Very soft, soft, firm clay etc.</small>					
CBR Value / S_u Value <small>E.g. (1.5% CBR or S_u = 30kPa)</small>					
Proposed Aggregate <small>(Capping + Sub-base)</small>	<small>E.g.(DoT 6F2) with max particle size -125mm</small>		<small>E.g.(DoT Type 1) with max particle size-75mm</small>		
Finished Surfacing <small>Asphalt or Block Paving and thickness</small>	<small>Asphalt Base Course (mm)</small>	<small>Asphalt Binder Course (mm)</small>	<small>Asphalt Surfacing Course (mm)</small>	<small>Sand Bedding Layer Course (mm)</small>	<small>Block Paving Course (mm)</small>

SPECIFIC TRAFFIC INFORMATION

Anticipated Construction Trafficking <small>(in-service / construction traffic, maximum axles loading to be imposed, visits per day/week/month, vehicle types)</small>	Anticipated Design Capacity <small>E.G 10M ESALS, 0.5M ESALS</small>			
Preference for Value <small>Please tick relevant boxes</small>	Cost Savings	Time Savings	Carbon Savings	Reduced Site traffic

Project Stage: Feasibility / Pre-Tender / Tender / Contract Awarded / On-Site

Level of Service Required: Free of Charge Application Suggestion (feasibility) / Design & Supply (detailed design – chargeable)

Please note, to enable us to produce accurate timely proposal, all the information above is required

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Guidance Notes

For general guidance, the following notes are provided, should detailed information not be known. These values will need to be verified prior to detailed design and construction.

Typical design capacities

3+ Lane Motorway	80M+ ESALS
Dual Carriageway	50M+ ESALS
Main Road	20M ESALS
Minor / Local Road	10M ESALS
Housing Development	5M ESALS
Unclassified/Private Road	1M ESALS
Car Park Access Road	0.5M ESALS
Car Parking Bays	0.05M ESALS

Typical asphalt stiffness values

3100 MPa HRA 40/60 (Hot Rolled Asphalt)

2500 MPa SMA / DBM (in surface course)

2500 MPa DBM 100/150 (in binder and base course)

4700 MPa* DBM / HDM 40/60 (in binder and basecourse)

*For a 4700 MPa layer, the structural contribution will be capped to an a-value of 0.5

Typical aggregate stiffness values

135 - 150 MPa Unbound Sub-base (max. single layer compaction thickness = 225mm)

60 – 75 MPa Unbound Capping (max. single layer compaction thickness = 250mm)

Single layer compaction thicknesses (assuming 5 x aggregate size)

AC6 30mm maximum

AC10 50mm maximum

AC20 100mm maximum

AC32 150mm maximum

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