

Deck specification options

Cars & light commercial vehicles

Specification 1

(Maximum gross vehicle weight 3.5 tonnes)

Comprising nominal 30mm - 40mm thick single coat mastic asphalt paving on nominal 20mm thick 2-coat mastic asphalt waterproofing on Glass Fibre Tissue Separating Membrane loose laid with minimum 50mm side and end laps.

Specification 2

(Maximum gross vehicle weight 3.5 tonnes)

Comprising nominal 25mm - 40mm thick single coat mastic asphalt paving on nominal 10mm single coat mastic asphalt waterproofing on Glass Fibre Tissue separating membrane loose laid with minimum 50mm side and end laps.

Specification 3

(Internal levels only. Max gross vehicle weight 3.5 tonnes)

Comprising nominal 25mm - 40mm thick single coat mastic asphalt paving on Glass Fibre Tissue Separating Membrane loose laid with minimum 50mm side and end laps. The mastic asphalt paving bay joints to be positioned centrally over nominal 300mm wide x 10mm thick mastic asphalt waterproofing straps.

Specification 4 - insulated

(Maximum gross vehicle weight 3.5 tonnes)

Comprising nominal 30mm - 40mm thick single coat mastic asphalt paving on nominal 20mm thick 2-coat Mastic Asphalt Waterproofing on Glass Fibre Tissue Separating Membrane loose laid with minimum 50mm side and end laps on minimum 75mm thick lytag Grade 20 concrete slab with 142 steel wire mesh reinforcement at mid height.

The thickness and grade of extruded polystyrene insulation must be in accordance with the recommendations based on imposed loading and required U-value.

Specification 5 - ramp

(Maximum gross vehicle weight 3.5 tonnes)

Ramps should be cross tamped and lightly primed with High Bond Primer.

To prevent undue thinning of the mastic asphalt waterproofing, tamps should not exceed 5mm in height.

Nominal 25mm thick single coat mastic asphalt paving with crimped finish on nominal 15mm thick single coat mastic asphalt waterproofing.

Where ramps are subject to HGV traffic, the thickness of the mastic asphalt paving should be increased to 40mm with a crimped finish.

In situations where warming elements are required, these should be embedded in a sand/cement screed beneath the mastic asphalt system.



Deck specification options

Heavy goods vehicles

Specification 6 - uninsulated service deck

(Maximum gross vehicle weight 44.0 tonnes and maximum individual axle loading 11.5 tonnes)

Comprising nominal 40mm thick single coat Mastic Asphalt Paving on nominal 20mm thick 2-coat Mastic Asphalt Waterproofing on Glass Fibre Tissue Separating Membrane loose laid with minimum 50mm side and end laps.

If the anticipated gross vehicle weights are likely to exceed 7.5 tonnes, 6mm, 14mm or 20mm pre-coated chippings must be rolled into the surface to improve indentation resistance. However it should be noted that the uneven scatter of chippings will reduce the aesthetic appearance of the paving. The paving surface should not be sand rubbed when pre-coated chippings are used.

Table 3

Pre-coated chippings spread rate

Thickness (mm)	Nom. Weight (kg/m ²)
6	6.5 - 7.5
14	7.5 - 10
20	10 - 13

Specification 7 - insulated service deck (with pre-coated chippings)

(Maximum gross vehicle weight 44.0 tonnes and maximum individual axle loading 11.5 tonnes)

Comprising nominal 40mm thick single coat Mastic Asphalt Paving on nominal 20mm thick 2-coat Mastic Asphalt Waterproofing on Glass Fibre Tissue Separating Membrane loose laid with minimum 50mm side and end laps on minimum 100mm thick lytag/sand concrete Grade 20 with a wood float finish and reinforced with 142 steel wire mesh at mid height.

If the anticipated gross vehicle weights are likely to exceed 7.5 tonnes, 6mm, 14mm or 20mm pre-coated chippings must be rolled into the surface to improve indentation resistance. Pre-coated chippings may be omitted where the gross vehicle weight will not exceed 7.5 tonnes.

It should be noted that the uneven scatter of chippings will reduce the aesthetic appearance of the paving. The paving surface should not be sand rubbed when pre-coated chippings are used.

The thickness and grade of extruded polystyrene insulation must be in accordance with the recommendations based on imposed loading and required U-value.

