CITY OF COCKBURN
Specification for pavement & drainage of Non Trafficable lay down Industrial areas

Following are the two options available to choose for utilising non trafficable area as lay down area or storage in Industrial premises of the City Of Cockburn

Option 1:

1. Subgrade

Compact the existing soil to at least 92 % of Maximum Dry Density after removing vegetation and other unacceptable material from the soil to be compacted.

2. Sub-base

Limestone Conforming to standard specification of road building to be laid and compacted to the density of at least 93% of MDD with minimum compacted thickness of **100 mm**.

3. Base – Course

Base course could be either Rock base, Recycled Concrete or Recycled Asphalt material but needs to conform to the general specification of road base material. Base course to be compacted to at least 94 % of MDD using minimum compacted thickness of **75 mm**.

4. Sealing (Optional)

The entire area could be sealed with Primer seal or any other mode of cost effective sealing product. Sealing would make the pavement impermeable which would require extra soakage capacity from drainage consideration.

5. Drainage

After compaction of road base material to the required specification , the pavement could be used as non trafficable area but it would need to be drained either by grading the pavement towards some permeable area like Swale / Sump or by installation of Soakwells.

For unsealed Pavement minimum required should be to contain 1 in 100 year storm, over 24 hour duration, within the property, with contingency for flooding and a 300mm freeboard. The acceptable on-site disposal structures are soak wells/Swales/Sump/Infiltration Basins. All stormwater drainage shall be designed in accordance with the document entitled “Australian Rainfall and Runoff” 1987 (where amended) produced by the Institute of Engineers, Australia, and the design is to be certified by a suitably qualified practicing Engineer or hydraulic consultant, to the satisfaction of the City.

Option 2 :

1. Subgrade

Compact the existing soil to at least 92 % of Maximum Dry Density after removing vegetation and other unacceptable material from the soil to be compacted.

2. Sub-base/Base – Course

Sub-base/Base course material to be used over compacted soil could be either Rock base, Recycled Concrete or Recycled Asphalt material but needs to conform to the general specification of road base material. Base course to be compacted to at least 94 % of MDD using minimum compacted thickness of **100 mm**.

3. Sealing (Optional)

The entire area could be sealed with Primer seal or any other mode of cost effective sealing product. Sealing would make the pavement impermeable which would require extra soakage capacity from drainage consideration.

4. Drainage

After compaction of road base material to the required specification , the pavement could be used as non trafficable area but it would need to be drained either by grading the pavement towards some permeable area like Swale/ Sump or by installation of Soakwells.

For unsealed Pavement minimum required should be to contain 1 in 100 year storm, over 24 hour duration, within the property, with contingency for flooding and a 300mm freeboard. The acceptable on-site disposal structures are soak wells/Swales/Sump/Infiltration Basins. All stormwater drainage shall be designed in accordance with the document entitled “Australian Rainfall and Runoff” 1987 (where amended) produced by the Institute of Engineers, Australia, and the design is to be certified by a suitably qualified practicing Engineer or hydraulic consultant, to the satisfaction of the City.

Any alternative materials must not be installed without the prior approval of Council’s Manager Engineering Services. Note all regularly trafficked areas must be sealed and drained to comply with Council’s specification for trafficked areas.

For further information please contact Council Engineering Officers on 9411 3550.