

## APPENDIX 5 - STAIRWAYS, LADDERS AND PLATFORMS

### REQUIREMENTS FOR DIVING FACILITIES

#### 1. GENERAL REQUIREMENTS

The structure is to be designed and constructed to be easily capable of withstanding maximum loadings.

Surfaces of stairways, ladders and platforms which are likely to become wet shall be self-draining and slip resistive.

Surfaces shall be non-abrasive, and suitable for patrons with bare feet.

Guard-railing or balustrades shall be provided as appropriate, to reduce the possibility of falls.

Access to diving boards and platforms higher than 1.0m shall not be provided by vertical ladders. Access to these facilities shall be provided by stairways.

#### 2. REQUIREMENTS FOR STAIRWAYS

Stairways shall have steps with treads at least 280mm wide, and risers not exceeding 180mm in height.

Stairways shall be wide enough to allow easy passage of two riders, with handrails on either side.

Variation between tread dimensions in any flight is not to exceed 5mm.

A tread surface shall be slip resistive.

Surface of every tread shall extend across the full width of stairway.

Gradient of steps shall provide sufficient drainage.

Number of risers shall not exceed 18 in any flight.

A maximum of 36 risers is permitted without a change in direction.

##### 2.1 Landings

Length and width of landings shall be no less than the stairways.

Their minimum vertical clearance shall be 2 metres.

Landings shall be provided with adequate drainage.

They shall be provided with guard-railing and balustrades, to prevent falls.

##### 2.2 Guard-Railing and Balustrades

Guard-railing and balustrades where provided, shall be to a minimum height of 1.2m.

All guard-railing and balustrades shall be of such design that they will not permit the passage of a 125mm sphere.

Any horizontal or near-horizontal elements between 150mm and 760mm above the floor shall not facilitate climbing.

### **2.3 Handrails**

Stairways shall be provided with handrails on both sides.

Handrails shall have a smooth, continuous top surface.

They shall be parallel to the angle of the slope of the stairway or ladder.

They shall extend at least 900mm above the landing, or alternatively, handgrips shall be provided above the level of the opening.

## **3. REQUIREMENTS FOR LADDERS**

### **3.1 General Requirements**

Ladders shall be not less than 450mm wide.

They shall be provided with metal handrails on both sides.

The handrails shall be at least 30mm in diameter.

### **3.2 Treads**

Treads shall have uniform dimensions, such that variations are  $\pm 5$ mm.

Treads shall be not less than 100mm wide.

They shall be equally spaced, 200 - 250 mm apart.

The top tread shall be level with, and integral with the landing.

Treads shall be slip resistant.